

P.A. HANCOCK*(U.S. CITIZEN)*

*Provost Distinguished Research Professor
University Pegasus Professor
University Trustee Chair*

FELLOW

*American Association for the Advancement of Science
Aerospace Human Factors Association
Aerospace Medical Association
Air Force Association
Association for Psychological Sciences
American Psychological Association
Chartered Institute of Ergonomics and Human Factors
Human Factors and Ergonomics Society
Institute of Electrical and Electronics Engineers
International Ergonomics Association
National Academy of Kinesiology
Psychonomic Society
Royal Aeronautical Society*

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Laboratory Website: www.mit.ucf.edu

EDUCATION

D.Sc. Loughborough University, Loughborough, England, Human-Machine Systems.	2001
Ph.D. University of Illinois at Urbana-Champaign, Human Performance.	1983
M.Sc. Loughborough University, Loughborough, England, Human Biology.	1978
B.Ed. (Honors) Loughborough University, Loughborough, England, Anatomy and Physiology.	1976

PROFESSIONAL CERTIFICATIONS

<i>Chartered Ergonomist and Human Factors Specialist, (CErgHF), Great Britain.</i>	2015
<i>Certified Professional Ergonomist (CPE, No. 1258), Board Certification in Professional Ergonomics</i>	2003
<i>Certificate of Education Loughborough University, Loughborough College of Education, England.</i>	1975

PROFESSIONAL EXPERIENCE**Primary Appointment**

2012-present	University Trustee Chair, <i>University of Central Florida</i> (Renewed 2017, 2021).
2009-present	Pegasus Professor, <i>University of Central Florida</i>
2001-present	Provost Distinguished Research Professor, Department of Psychology and the Institute for Simulation and Training, <i>University of Central Florida</i>
2001-present	<i>Director</i> , Minds in Technology, Machines in Thought (MIT ²) Laboratories

The Minds in Technology, Machines in Thought (MIT²) Laboratories serve as the home for many researchers ranging from visiting Faculty and Post-Doctoral scientists to Graduates and Undergraduates. MIT² focuses upon human-machine interaction. Major experimental works currently concern the evaluation of human-machine trust, its development and calibration. We also engage in the empirical exploration of the flow state. In particular, our present focus is upon human-autonomy interaction, particularly with robots. This includes soldier-robot teaming and supportive robotics for disabled individuals. The on-going study of time persists, especially in the development of 'Zero-Time Theory.'

Additional Appointments/Affiliations

2022-present	Science Advisory Board, <i>Aptima Inc.</i> , Woburn, MA
2013-present	Research Affiliate, Humans and Automation Laboratory (HAL), <i>Duke University</i> , Durham, NC.
2010-present	Professor, Department of Industrial Engineering and Management Systems, <i>University of Central Florida</i>
2006-present	Senior Scientist, <i>Institute for Human and Machine Cognition</i> (IHMC), Pensacola, FL.
2003-present	Research Faculty, <i>Hawaii Academy</i> , Honolulu, HI
2002-present	Clinical Professor, Dept. of Psychology, <i>University of Minnesota</i> , Minneapolis, MN.
2002-present	Professor, Dept. of Civil and Environmental Engineering, <i>University of Central Florida</i>
2001-present	Adjunct Senior Research Scientist, Transportation Research Institute (UMTRI), <i>University of Michigan</i> , Ann Arbor, MI

Previous Appointments

2015-2017	Member, Scientific Advisory Board, National Space Biomedical Research Institute (NSBRI), Houston, TX.
2010-2014	Technical Advisory Board Member: <i>Advanced Disaster Management Systems</i> (ADMS), Environmental Tectonics Corporation (ETC), Southampton, PA.
2003-2012	Associate Director, <i>Center for Applied Human Factors in Aviation</i> (CAHFA), UCF.
2006-2011	Research Affiliate, Humans and Automation Laboratory (HAL), <i>MIT</i> , Boston, MA.
2009	Distinguished Visiting Professor, Department of Industrial Engineering and Management, <i>Ben-Gurion University of the Negev</i> , Beer Sheva, Israel.
2004-2009	Board of Directors. <i>Society for Human Performance in Extreme Environments</i> . (Member, 2004-2007, Chairman of the Board, 2007-2009).
2000-2001	Professor, Department of Mechanical Engineering, <i>University of Minnesota</i> .
1998-2000	Research Affiliate, Center for Transport Studies, Engineering Systems Division, <i>Massachusetts Institute of Technology</i> (MIT).
1997-1998	Deputy Director, <i>Liberty Mutual Research Center for Safety/Health</i> , Hopkinton, MA.
1996-2001	Professor, Computer Science and Engineering, <i>University of Minnesota</i> .
1996-2001	Professor, Department of Psychology, <i>University of Minnesota</i> .
1996-2001	Professor, Center for Girls/Women in Sport and Exercise, <i>University of Minnesota</i> .
1996-2001	Professor, Center for Cognitive Sciences, <i>University of Minnesota</i> .
1996-2001	Professor, Division of Kinesiology, <i>University of Minnesota</i> .
1994-2001	Graduate Faculty in Gerontology, <i>University of Minnesota</i> .
1992-1996	Research Affiliate, Center on Aging, <i>University of Hawaii at Manoa</i> .
1990-1996	Associate Professor, Center for Research in Learning, Perception and Cognition, <i>University of Minnesota</i> .
1989-1996	Associate Professor, Division of Kinesiology and Director, Human Factors Research Laboratory (HFRL), <i>University of Minnesota</i> .
1989-1990	Founder and Director of the Human Factors Research Laboratory, (HFRL), <i>University of Minnesota</i> .
1988-1989	Research Associate, Andrus Gerontology Center, <i>University of Southern California</i> .
1984-1989	Assistant Professor, Human Factors Department, Institute of Safety and Systems Management (ISSM), <i>University of Southern California</i> .
1983-1989	NIOSH Research Scientist, Southern California Educational Resource Center (ERC), National Institute of Occupational Safety and Health (NIOSH), <i>University of Southern California</i> .
1983-1989	Assistant Professor, Department of Safety Science, Institute of Safety and Systems Management (ISSM), <i>University of Southern California</i> .
1982-1983	Open Graduate Scholar, <i>University of Illinois</i> .
1979-1982	Research Assistant, Motor Behavior Laboratory, Institute for Child Behavior and Development (ICBD), <i>University of Illinois</i> .
1977-1978	Training of Personnel (TOPS) Scholar, Department of Human Sciences, <i>Loughborough University</i> , England.

1976-1977 Faculty Member, *Haileybury and Imperial Service College*, Hertford, England.

CONTINUING EDUCATION

Summer 2012: “*The Life and Times of Richard III.*” Research Course, Christchurch College, Oxford University, Oxford, England.
 Summer 2013: “*The Wars of the Roses.*” Research Course, Christchurch College, Oxford University, Oxford, England.
 Summer 2014: “*A World turned Upside Down: English Civil War and Revolution 1642-1660.*” Research Course, Christchurch College, Oxford University, Oxford, England.
 Summer 2016: “*Mary, Queen of Scots.*” Research Course, Christchurch College, Oxford University, Oxford, England.

HONORS and AWARDS

Honors

Two-Term, Appointed Member, United States Army, Science Advisory Board, March 2019. (Special Government Employee: SGE), (2022-present). (Swearing In: January 4th, 2023).
Named in the Top 2% of World Scientists, Stanford University AD Scientific Index 2023.
Named in the Top 10,00 Scientists in North America, Stanford University AD Scientific Index 2023.
Elected Member, Academy of Science, Engineering, and Medicine of Florida, April 2022, (Inducted, November 2022).
Past-President, Human Factors and Ergonomics Society, 2021-2022.
Elected Fellow: National Academy of Kinesiology. (#603), April 2021, Inaugurated September 2021
United States Army Civilian Service Achievement Medal, 2021.
Named, Fellow, Air Force Association (AFA), 2020.
President, Human Factors and Ergonomics Society, 2020-2021.
Appointed Member, United States Army, Science Advisory Board, March 2019. (Special Government Employee: SGE), (2019-2021).
President Elect, Human Factors and Ergonomics Society, 2019-2020. (Only the Second Person Elected to a Second Term).
Appointed Member, United States Air Force, Science Advisory Board, August 2018. [Sworn In: March 18th, 2019]. (Special Government Employee: SGE), (2019-2021).
Elected Member, Modelling and Simulation “*Hall of Fame*,” National Center for Simulation, Elected February 2019 (Inducted, July 2019), (Only the 26th Individual to be so Inducted).
Elected Member, European Union Academy of Sciences. (EUAS), January 2018.
Elected Member, International Academy of Aviation and Space Medicine (IAASM), June 2017.
Elected Honorary Member, Institute of Industrial and Systems Engineers (IISE). March 2017 (Only the 28th such Member Elected in the Institutes’ History).
Elected Honorary Member, American Society of Heating, Radiation and Air-Conditioning Engineers (ASHRAE), August 2015 (Only the 13th such Member since 1896).
Elected Member, Cosmos Club, Washington, D.C. September 2011.
President, Society for Engineering Psychology, American Psychological Association, 2010.
Chairman, Board of Directors, Human Performance in Extreme Environments Society, 2007-2009.
Member, National Academy of Sciences, Committee on Neurosciences in the Army, 2007-2009.
Chair, National Research Council Committee on *Interfaces for Ground and Air Military Robots*, 2005.
Member, National Academy of Sciences, Committee on Human Factors, 2003-2008.
Past-President, Human Factors and Ergonomics Society, 2001.
President, Human Factors and Ergonomics Society, 2000.
President-Elect, Human Factors and Ergonomics Society, 1999.
Elected Member, Sigma Xi, The Scientific Research Society, 1988.
Elected Member Psychonomic Society, One Year Post Graduation, 1984 (Fellow, 2003).

Awards from Scientific and Professional Societies

Lifetime Achievement Award, National Training and Simulation Association, (NTSA), 2022.
Distinguished Service to Safety Award, National Safety Council (NSC), 2022.
Kent K. Gillingham Award, Aerospace Medical Association (AsMA), 2022.

- Jeffries Aerospace Medicine and Life Sciences Research Award*, American Institute of Aeronautics and Astronautics (AIAA), 2022.
- Roger Green Medal*, Royal Aeronautical Society, September 2020.
- William E. Collins Award*, Aerospace Medical Association (AsMA), 2020. Selected Best Paper:
Hancock, P.A., Nourbakhsh, I., & Stewart, J. (2019). *On the future of transportation in an era of automated and autonomous vehicles*. *Proceedings of the National Academy of Sciences*, 116 (16), 7684-7691.
- Distinguished Mentor Award*, Society for Military Psychology, American Psychological Association, 2020.
- Paul Bert Award*, Aerospace Physiology Society, (AsMA), 2019.
- International Ergonomics Association Outstanding Educator Award* (IEA), 2018.
- Specialist Silver Award*, Royal Aeronautical Society, 2017.
- Human Factors Prize, Award Winner*, Human Factors and Ergonomics Society, 2017.
Sawyer, B.D., & Hancock, P.A. (2018). *Hacking the human: The prevalence paradox in cyber-attack and cyber-defense*. *Human Factors*, 60 (5), 597-608
- Sidney D. Leverett Jr. Environmental Science Award*, Aerospace Medical Association (AsMA), 2016.
- John Wilson/Elsevier Award*, International Ergonomics Association, (Inaugural Award, Co-Winner), 2015.
- Ergonomics Development Award*, International Ergonomics Association (IEA), 2015
- William Floyd Award*, Chartered Institute for Ergonomics - Human Factors, (CIEHF), Great Britain, 2015.
- John Davey Award for Medieval Studies*, Richard III Foundation, 2015. (*Only Ever Two Time Recipient*).
- William E. Collins Award*, Aerospace Medical Association (AsMA), 2014. Selected Best Paper For:
Hancock, P.A. (2013). *In search of vigilance: The problem of iatrogenically created psychological phenomena*. *American Psychologist*, 68 (2), 97-109.
- Alexander C. Williams Jr. Award*, Human Factors and Ergonomics Society (HFES), 2013.
- Charles S. Gersoni Award*, Society for Military Psychology, American Psychological Association, 2013.
- John Davey Award for Medieval Studies*. Richard III Foundation, 2012.
- Oliver Keith Hansen Award*, Human Factors and Ergonomics Society (HFES), 2012.
- Admiral Leland S. Kollmorgen Spirit of Innovation Award*, Augmented Cognition Society, 2011.
- Henry L. Taylor Award*, Aerospace Medical Association, 2011.
- Presidential Citation: Service to Engineering Psychology*, American Psychological Association, 2010.
- Andrew P. Sage Award*, Institute of Electrical and Electronics Engineers (IEEE), 2008.
Oron-Gilad, T., Downs, J., Gilson, R., & Hancock, P.A. (2007). *Vibro-tactile cues for target acquisition*. *IEEE Transactions on Systems, Man, and Cybernetics: Part C: Applications and Reviews*, 37 (5), 993-1004.
- Paul M. Fitts Award*, Human Factors and Ergonomics Society (HFES), 2008.
- Raymond F. Longacre Award*, Aerospace Medical Association (AsMA), 2008.
- Otto Edholm Award*, The Ergonomics Society of the United Kingdom, 2008.
- A.R. Lauer Award*, Human Factors and Ergonomics Society (HFES), 2007.
- John C. Flanagan Award*, American Psychological Association (APA), 2007.
- Norbert Wiener Award*, Institute of Electrical and Electronics Engineers (IEEE), 2006.
- Jack A. Kraft Award*, Human Factors and Ergonomics Society (HFES), 2005.
- Liberty Mutual Medal - Occupational Safety and Ergonomics*, International Ergonomics Association, 2003.
Hancock, P.A., & de Ridder, S. (2003). *Behavioral response in accident-likely situations*. *Ergonomics*, 46 (12), 1111-1135.
- Wojciech Bogumil Jastrebowski Medal*, Polish Ergonomics Society, 2002.
- Jerome H. Ely Award*, Human Factors and Ergonomics Society (HFES), 2001. For:
Parasuraman, R., Masalonis, A.J., & Hancock, P.A. (2000). *Fuzzy signal detection theory: Basic postulates and formulas for analyzing human and machine performance*. *Human Factors*, 42 (4), 636-659.
- Liberty Mutual Prize in Occupational Safety and Ergonomics*, International Ergonomics Association, 2001.
Hancock, P.A., & de Ridder, S. (2003). *Behavioral response in accident-likely situations*. *Ergonomics*, 46 (12), 1111-1135.
- Franklin V. Taylor Award*, American Psychological Association (APA), 2001.
- Sir Frederic Bartlett Medal*, The Ergonomics Society of the United Kingdom, 2000.
- Ergonomics in Design, Best Paper Award*, Human Factors Society (HFS), 1994.
Hancock, P.A., Dewing, W.L., & Parasuraman, R. (1993). *A driver-centered system architecture for intelligent-vehicle highway systems*. *Ergonomics in Design*, 2, 12-15, 35-39.
- Early Career Distinguished Scholar*, North American Society for the Psychology of Sport, and Physical Activity (NASPSA), 1987.

Awards from Institutions

- Albert Nelson Marquis Lifetime Achievement Award*
- Pioneer in Human-Automation Interaction Research*. Recognition from the Cognitive Engineering and Decision-Making Technical Group of the Human Factors and Ergonomics Society, September 2011.
- National Ergonomics Month, Honor Roll*, 2005.

Winner, NASA 2002, Turning Goals into Reality (TGIR) Award for Outstanding Accomplishment toward the Revolutionize Aviation Goal. The AGATE Alliance Project Team, University of Central Florida Space Coast Center for Human Factors (CAHFA, M. Mouloua, Director, P.A. Hancock, Associate Director, R. Gilson, Associate Director).

Winner, Best Lecture Award 2000, for the A. Louis Medin Seminar Series, Institute for Simulation and Training, University of Central Florida, Orlando, FL.

Winner, *Research Partnership Award*, Center for Transportation Studies. 'Investigating the Effects of Roadway Design on Driver Behavior: Applications for Minnesota Highway Design.' May 1999.

Minnesota Guidestar, Winner of the ITS America Board Chair Award, 1995. The Human Factors Research Laboratory as a component element of the Guidestar Program.

American Psychological Association Travel Scholar. International Congress of Applied Psychology, Kyoto, Japan, July 1990.

Fellowships in Scientific Societies

Fellow, National Academy of Kinesiology (2021).

Fellow, Air Force Association (2020).

Fellow, Institute for Electrical and Electronics Engineers, IEEE (2017).

Fellow, Royal Aeronautical Society, RAeS (2015).

Fellow, Aerospace Human Factors Association (2015).

Fellow, American Association for the Advancement of Science AAAS, (2012, *Science*, **338**, 1171).

Fellow, Aerospace Medical Association, (AsMA) 2012, (Associate Fellow, 2010).

Fellow, American Psychological Association, (APA) 2007.

(Division 19: Society of Military Psychologists. [2007], Division 21: Society of Engineering Psychologists [2007], Division 1: Society for General Psychology [2013] Division 3: Society for Experimental Psychology and Cognitive Science [2016]).

Fellow, American Psychological Society, APS (2005).

Fellow, Psychonomic Society (2003).

Fellow, The Ergonomics Society, 2002 (Now: The Institute of Ergonomics and Human Factors).
FIEHF, CErgHF (Chartered Ergonomist and Human Factors Specialist).

Fellow, International Ergonomics Association, IEA (2001).

Fellow, Human Factors and Ergonomics Society, HFES (1998).

Fellow, AAHPERD Research Consortium, ARC (1984).

United States Air Force, Science Advisory Board (SAB) Activities

Unofficial Start Date: Fall Board Meeting, September 2018: Full Swearing In, March 18th, 2019.

Study Group and Technical Report: *21st Century Training and Education Technologies*. (2018-2019), [Group Member].

SAB Review of 711 Wing, Section RH, Air Force Research Laboratory Science and Technology Review (Airmen Systems), (2019), [Review Panel Member].

Study Group and Technical Report: *Understanding and Avoiding Unintended Behaviors in Autonomous Systems*. (2019-202), [Group Member].

SAB Strategic Review of AFRL (2020), [Review Panel Member].

[By Order of the Secretary of Defense, 1-30-21, the Activities of this Scientific Advisory Board and 41 other Advisory Boards were Suspended and as of 2-16-21, Membership in such Boards were also Suspended, pending Developments].

Re-Authorization as A Member of the USAF SAB, December 22, 2022: Swearing In, January 2023.

Study Group and Technical Report: Development and Operational Testing (2023-Present). [Group Member].

United States Army Science Advisory Board (ASB) Activities

Study Group and Technical Report: *Army Modeling and Simulation (M&S)*. (2019-2020), [Group Member].

Study Group and Technical Report: *Modernizing Army Outreach and Recruiting: Active Enlisted Force* (Group Member).

[By Order of the Secretary of Defense, 1-30-21, the Activities of this Scientific Advisory Board and 41 other Advisory Boards were Suspended and as of 2-16-21, Membership in such Boards were also Suspended, pending Developments].

Clearance Status

Top Secret (SCI), Sensitive Compartmentalized Information. Status Granted March 2020.

Invited Named Lecturer, Keynote and Plenary Speaker

Titans of Human Factors/Ergonomics Commentator, February 2023.

Invited Keynote Panelist, Safety – II Conference, Johns Hopkins All-Children's Hospital, St.. Petersburg, FL, January 2023.

Invited Keynote Speaker, Fifth Annual Northrop Grumman Human Factors Symposium, September 2022.

Invited Speaker, Working in Industry and Bridging the Gap between Industry and Academe. NASPSA (Video Webinar), April 2022.

Titans of Human Factors/Ergonomics Lecturer, February 2022.

Paul B. Baltes Lecturer, Berlin-Brandenburg Academy of Sciences and Humanities, October 2021.

Presidential Keynote Address, Human Factors and Ergonomics Society, October 2021.

Invited Speaker, National Academy of Sciences Engineering, and Medicine, Human-AI Teaming Workshop (Virtual), July 2021.

Invited Keynote Speaker, International Ergonomics Association, Vancouver (Virtual), June 2021.

Donald Broadbent Lecturer, Chartered Institute for Ergonomics and Human Factors, Annual Meeting, Stratford on Avon, England, April 2020 (Postponed; Coronavirus) Delivered April 2021.

Invited College Lecturer, College of Engineering, University of Toronto, Toronto, Canada, March 2020.

Invited Plenary Keynote Speaker, 10th International Conference on Applied Human Factors and Ergonomics, Washington DC, July 2019.

Invited Keynote Speaker. Senior Chemists Meeting, American Chemical Society, Orlando, FL, April 2019.

Invited Moderator. Safety II Workshop. St. Petersburg, FL, February 2019.

Invited Keynote Speaker. Transportation Research Board (TRB), Meeting, Washington, DC, January 2019.

Invited Speaker. CyberTRAINistions Workshop. Orlando, FL, January 2019.

Plenary Keynote Speaker. NATO Meeting on Human-Autonomy Teaming, Portsmouth, England, October 2018.

Keynote Speaker. Society for Applied Experimental and Engineering Psychology, American Psychological Associating, Annual National Meeting, San Francisco, CA, August 2018.

Invited Speaker, Sackler Colloquium on the Science of Science Communication, National Academy of Science, Washington DC, November 2017.

Keynote Speaker, Thirteenth Ergonomics Society of South Africa Conference (ESSA2017), Third African Symposium on Human Factors and Aviation Safety (ASHFAS2017), First Ergo-Africa Conference (ErgoAfrica2017), Johannesburg, South Africa, September 2017. (Delivered via Skype; Pace Hurricane Irma).

Plenary Keynote Speaker, 1st International Symposium on Human Mental Workload: Models and Applications, Dublin, Ireland, June 2017.

Keynote Speaker, National Safety Council, Road to Zero Coalition Meeting, Washington, D.C., June 2017.

Plenary Keynote Speaker, 1st International Neuroergonomics Conference, Paris, France, October 2016.

Keynote Speaker, Richard III Foundation Conference on England during the Reign of the Yorkist Kings. Market Bosworth, October 2015.

Plenary Keynote Speaker, International Conference on Road Safety and Simulation, Orlando, FL, October 2015.

Plenary Keynote Speaker, 7th Biennial World Research Congress on the Relationship between Vision and the Safe Operation of a Motorized Vehicle (The Eye, the Brain, and the Auto), Dearborn, MI, September 2015.

Invited Speaker, Institute of Ergonomics and Human Factors Annual Meeting, Daventry, England, April 2015.

Plenary Keynote Speaker, 6th International Conference on Automotive User Interfaces and Interactive Vehicular Applications, Seattle, WA, September 2014.

(<http://www.auto-ui.org/14/proceedings.php>)

Keynote Speaker, IEEE International Multidisciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support, San Antonio, TX, March 2014.

Plenary Keynote Speaker, European Chapter of the Human Factors and Ergonomics Society, Turin, Italy, October 2013.

Frederick Howell Lewis Distinguished Lecturer of Psi Chi, the International Honor Society in Psychology, presented at the Annual Meeting of the American Psychological Association, Orlando, FL, August 2012.

- Senior Lecturer*, North American Society for the Psychology of Sport and Physical Activity. Honolulu, HI, June 2012.
- Henry L. Taylor Lecturer*. Aerospace Human Factors Association, Atlanta, GA, May 2012.
- Plenary Keynote Speaker*, 5th International Summer School on Aviation Psychology, Graz, Austria, July 2011.
- Presidential Lecture*, Society for Engineering Psychologists, American Psychological Association, San Diego, CA, August 2010.
- University Presidential Speaker*, Wright State University, Dayton, OH, November 2009.
http://www.wright.edu/lecture/2009_10/hancock.html
- Plenary Keynote Speaker*. First International Conference on Driver Distraction and Inattention, Gothenburg, Sweden, September 2009.
<http://www.chalmers.se/safer/driverdistraction-en/programme/keynote-speaker-abstacts/peter-hancock>
- Visiting Professor and Keynote Lecturer*, Ben-Gurion University of the Negev, Be'er Sheva, Israel, July 2009.
- Plenary Keynote Speaker*, Festschrift for Joel Warm, Conference on the Science and Applications of Perceptual Psychology, Cincinnati, 2008.
- Seminar Leader*, Swedish Human Factors Network, Linköping, 2007.
- Keynote Speaker*, Linköping University, Linköping, 2007.
- Keynote Speaker*, Syracuse Symposium on Environmental and Energy Systems, Syracuse, New York, 2005.
- Franklin Taylor Lecturer* of the American Psychological Association, 2002.
- Invited Speaker*, International Symposium on Human Factors in Driving Assessment, Training and Vehicle Design. Park City, Utah, August 2003.
- Invited Speaker*, International Symposium on Human Factors in Driving Assessment, Training and Vehicle Design. Aspen, Colorado, August 2001.
- A. Louis Medin Lecturer*, Institute for Simulation and Training, University of Central Florida, Orlando, FL, October 2001.
- Plenary Keynote Speaker*, Third International Meeting of the Federation Internationale de Motocyclisme, Pickerington, OH, 2001
- Plenary Keynote Speaker*, International Ergonomics Association XIVth Triennial Congress and 44th Annual Meeting of the Human Factors and Ergonomics Society, San Diego, CA, 2000.
- Plenary Speaker*, Ideafest, University of South Dakota, Vermillion SD, April 2000.
- Plenary Speaker*, First Annual Florida Human Factors-Ergonomics Student Meeting, Orlando, FL, 2000.
- A. Louis Medin Lecturer*, Institute of Simulation and Training, University of Central Florida, April 2000.
- Arnold Small Lecturer*, Human Factors and Ergonomics Society, Houston, TX, 1999.
- Plenary Keynote Speaker*, State Motorcycle Safety Administrators National Meeting, Bloomington, MN, August 1996.
- Keynote Speaker*, Center for Transportation Studies, Board Meeting, Minneapolis, MN, May 1996.
- Keynote Speaker*, 2nd Automation Technology/Human Performance Conference, Cocoa, FL, March 1996.
- Keynote Speaker*, 2nd International Conference on Driving and Fatigue, Freemantle, Australia, February 1996.
- Keynote Speaker*, Occupational Injury 96', Sydney, Australia, February 1996.
- Plenary Keynote Speaker*, First National Symposium on Human Performance in Automated Systems. Washington, DC, 1994.
- Plenary Keynote Speaker*, NATO Workshop: *Certification of Complex Systems*, Bonas, France, July 1993.
- Plenary Keynote Speaker*, NATO Advanced Study Institute on Verification and Validation of Complex Human-Machine Systems. Vimiero, Portugal, July 1992.
- Invited Speaker*, NASA/FAA Workshop on Artificial Intelligence and Human Factors in Air Traffic Control and Aviation Maintenance, Daytona Beach, FL, June 1992.
- Plenary Keynote Speaker*, NATO Advanced Study Institute on Concurrent Engineering Tools and Technologies for Mechanical System Design, University of Iowa, Iowa City, June 1992
- Invited Lecturer*, Sigma Xi, University of Cincinnati, Cincinnati, OH, March 1991.
- Keynote Speaker*, NATO Advanced Study Institute on Automation and Air Traffic Control, Maratea, Italy, June 1990.
- Invited Speaker*, Big Ten CIC Leadership Symposium, Chicago, IL, December 1988.

Invited Speaker, Psychology of Motor Behavior and Sport Conference, Knoxville, TN, June 1988.

Invited Plenary Speaker, Annual International Cabin Safety Symposium, Las Vegas, NV, March 1987.

Keynote Speaker, Yuma Pacific Section, American Industrial Hygiene Association, Oxnard, CA, February 1987.

Invited Speaker, Ninth Annual Carmel Workshop (NASA-ARMY), Workload and Training: Individual Differences, Monterey, CA, January 1987.

Invited Speaker, IACIC Symposium on Ergonomics in Industry, Los Angeles, CA, March 1986.

Invited Speaker, Facilities 2000: Education and Research Imperatives for Workplaces of the Twenty-First Century, Grand Rapids, MI, April 1988.

Invited Speaker, Western Occupational Health Conference, Irvine, CA, October 1985.

Invited Inaugural Speaker to the Tri-State Chapter of the Human Factors Society, Cincinnati, July 1983.

GRANTS AND CONTRACTS

Overall: \$21,743,329; 176 Grants and Contracts

University of Illinois: (At University of Illinois: \$30,000; 2 Grants/Contracts).

1) *Principal Investigator*. The Effects of Selective Hyperthermia on Cognition. Endeco Medical Inc, January to December 1983, \$5,000.

2) *Principal Investigator*. The Empirical Influences of Differential Heating and Cooling of the Head on Selected Cognitive and Psychomotor Capacities. Endeco Medical Inc, January 1984 to August 1984, \$25,000.

University of Southern California: (At University of Southern California: \$600,057; 13 Grants/Contracts)

3) *Principal Investigator*. An Assessment of the Problem of Fatigue with Reference to Time-Zone Transition. Air New Zealand Stewards and Stewardesses Union, July-December 1984. \$250.

4) *Principal Investigator*. Office Workstation Design for Current Office Environments. Pacific Bell, November 1984 to March 1985, \$20,500.

5) *Co-Principal Investigator* (with H.H. Hurt, Jr.). Motorcycle Conspicuity. Motorcycle Accident Research Laboratory, February 1985 to July 1985. \$5,000.

6) *Co-Principal Investigator* (with H.H. Hurt, Jr.). Human Failure of Detection and Perception in Accident Sequences. Motorcycle Accident Research Laboratory, Safety Helmet Council of America, August 1985 to July 1986, \$25,000.

7) *Principal Investigator*. Temporal Factors in Mental Workload, National Aeronautics and Space Administration (NASA), Grant: NCC 2-379, October 1985 to September 1986, \$37,528.

8) *Principal Investigator*. Temporal Factors in Human Mental Workload, National Aeronautics and Space Administration (NASA), Grant: NCC 2-379, October 1986 to September 1987, \$30,869.

9) *Research Faculty*. Research Initiative. Funded by the Southern California Educational Resource Center of (NIOSH), National Institute of Occupational Safety and Health, September 1987 to June 1988, \$5,175.

10) *Principal Investigator*. Functional Synchronization and Proactive Scheduling as Controls of Task-Oriented Response Behavior. National Aeronautics and Space Administration (NASA), September 1987 to September 1988, \$54,964.

11) *Research Faculty*. Research Initiative, Southern California Educational Resource Center of (NIOSH), National Institute of Occupational Safety and Health, September 1988 to June 1989, \$5,175.

12) *Principal Investigator*. Driver Recognition Failures and Conspicuity Factors in Automobile/Motorcycle Collisions. Motorcycle Safety Foundation and Honda Motor-Vehicles, September 1988 to August 1989, \$85,000.

13) *Principal Investigator*. Examining Driver Behavior in Accident Likely Driving Maneuvers. Honda Motor-vehicles, Inc., September 1988 to August 1989, \$50,000.

14) *Principal Investigator*. Adaptive Workload Scheduling Response to Dynamic Task Demands. National Aeronautics and Space Administration (NASA), October 1988 to September 1989, \$70,596.

15) *Preceptor*. National Institute of Aging, Research Training Grant in Attention and Aging, Andrus Gerontology Center, (J.E. Birren, M. Vercruyssen, and J. McDowd, Principal Investigators), December 1988 to November 1991, \$210,000.

University of Minnesota: (At the University of Minnesota: \$7,416,968; 80 Grants/Contracts).

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- 16) *Principal Investigator*. Design and Implementation of Intelligent Interfaces. Graduate School, University of Minnesota, September 1989 to September 1990, \$20,000.
- 17) *Principal Investigator*. Development of a Human Factors Research Laboratory. College of Education, University of Minnesota, September 1989 to September 1990, \$15,000.
- 18) *Principal Investigator*. Human Factors Research Program, Department of Kinesiology, University of Minnesota, September 1989 to September 1990, \$15,000.
- 19) *Principal Investigator*. Operator Workload Scheduling and Task Dynamics. National Aeronautics and Space Administration (NASA), October 1989 to September 1990, \$156,266.
- 20) *Principal Investigator*. Hypermedia Experiments in Motor Control. Project Minemac. (With J.K. Caird, M.G. Wade, & A. Burton), October 1989 to September 1990, \$5,500.
- 21) *Principal Investigator*. The Use of Driving Simulation for the Assessment, Training, and Testing of Older Drivers. National Institute of Aging, August 1989 to January 1990, \$1,000.
- 22) *Principal Investigator*. Human Factors Aspects of Multiple Vehicle Accidents. American Honda Motor-Vehicles Inc. December 1989 to December 1990, \$60,000.
- 23) *Principal Investigator*. Investigations of the Behavior of Aging Drivers. Center for Transport Studies, University of Minnesota, July 1990 to June 1991, \$50,000.
- 24) *Principal Investigator*. Evaluation of Older Driver Response in a Simulated Driving Environment, Graduate School, University of Minnesota, July 1990 to June 1991, \$18,315.
- 25) *Co-Principal Investigator* (with J. Fozard, & M. Vercruyssen). Assessment of Reaction Times in the Baltimore Longitudinal Study on Aging (BLSA). National Institute of Aging, October 1989 to September 1990, \$10,000.
- 26) *Principal Investigator*. Human Factors Issues in Intelligent Vehicle Highway Systems. Minnesota Department of Transportation, November 1990 to February 1991, \$30,635.
- 27) *Principal Investigator*. Where Older Drivers Make Mistakes. All University Council on Aging, (AUCA), July 1, 1991-June 30, 1992, \$2,500.
- 28) *Principal Investigator*. Human Factors Issues in Traffic Signing. Minnesota Department of Transportation, July 15, 1991- July 14, 1992, \$43,000.
- 29) *Principal Investigator*. The Application of Advanced Driving Simulation Capabilities to the Development and Implementation of IVHS Systems. Minnesota Department of Transportation, October 1, 1991-September 30, 1992, \$75,000.
- 30) *Co-Principal Investigator* (with S. Shekhar). A Traffic Management System for Navigation, Collision Detection, and Incident Detection. Center for Transport Studies, University of Minnesota, October 1991-September 1992, \$45,000.
- 31) *Co-Principal Investigator* (with S. Shekhar). The Integrated Study of Microscopic and Macroscopic Problems in IVHS: Emulation of the I-394 External Laboratory in a Driving Simulator. Minnesota Department of Transportation, October 1991-September 1992, \$43,000.
- 32) *Principal Investigator*. Specification of Tolerable Aviation Workload Thresholds and the Associated Role of Strategies in Operator Actions. National Aeronautics and Space Administration (NASA), October 1991 to September 1994, \$195,356.
- 33) *Principal Investigator*. Creation of Computer-Based Virtual Realities. Graduate School, University of Minnesota, November 1991 to October 1992, \$29,540.
- 34) *Principal Investigator*. Road Signage Legibility and Conspicuity with Respect to the Older Driver. 3M Company, December 1991 to December 1992, \$8,000.
- 35) *Principal Investigator*. Evaluation of the Structure and Function of Intelligent Interfaces for Adaptive Automated Task Allocation. Naval Air Development Center, Warminster, PA, June 1992 to May 1994, \$150,000.
- 36) *Principal Investigator*. Evaluation of Tint Film Characteristics in Driver Search and Recognition Behaviors. Madico Inc., January 1992-July 1992, \$65,000.
- 37) *Principal Investigator*. Following Advice from Traffic Advisories. Minnesota Department of Transportation, July 1992 to June 1993, \$25,000.
- 38) *Co-Principal Investigator*; (with S. Shekhar). Trace Driven Driving Simulation: Towards Integration of an External Laboratory with Driving Simulation. Minnesota Department of Transportation, July 1992 to June 1993, \$43,000.

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- 39) *Principal Investigator*, Simulation and On-Road Evaluation of GUIDESTAR IVHS Technologies. Center for Transport Studies and Minnesota Department of Transportation, June 1992 to June 1993, \$182,000.
- 40) *Principal Investigator*, Fixed-Base Flight Simulation Research Facility. Northwest Aerospace Training Corporation (NATCO), Eagan, MN, August 1992 to July 1993, \$500,000.
- 41) *Principal Investigator*, Pilot Experimentation on the Effects of Combinations of Driving and Non-Driving Tasks on Performance Efficiency in Simulation. Center for Transport Studies, University of Minnesota, June 1992 to August 1992, \$3,000.
- 42) *Principal Investigator*, Human Factors Evaluation of the Delco Radio Data System Prototype. Center for Transport Studies and the Minnesota Department of Transportation, December 1992 to November 1993, \$36,000.
- 43) *Principal Investigator*, Intelligent Vehicle-Highway Systems: Virtual Reality Applications. Minnesota Department of Transportation, March 3, 1993-May 1, 1993. \$6,938.
- 44) *Principal Investigator*, A Functional Evaluation of Driving Performance in Drivers with Cataracts: Licensing Implications, Center for Transportation Studies, July 1, 1993-June 30, 1994. \$30,944.
- 45) *Principal Investigator*, Human Factors Analysis of Intelligent Work-Zone Design. 3M Corporation, April 1993-December 1993. \$63,000.
- 46) *Principal Investigator*, Investigation of Advanced Signage. 3M Student Scholarship, September 1993-August 1994. \$10,000.
- 47) *Principal Investigator*, Human Factors Issues in Virtual Reality and Intelligent Tutoring, Honeywell Student Scholarship, September 1993- August 1994. \$10,000.
- 48) *Co-Principal Investigator*; (with J. Carmody). Human Factors and Interior Design related to Road Tunnels. Center for Transportation Studies, October 1993 - September 1994. \$30,000.
- 49) *Principal Investigator*, Shared Decision-Making in the National Aerospace System. Federal Aviation Administration. October 1, 1993 - September 30, 1996, \$698,081.
- 50) *Co-Principal Investigator*; (with S. Stackhouse) Human Factors Issues in the GENESIS Program. Minnesota Department of Transportation. November 15, 1993 - December 31, 1993. \$11,500.
- 51) *Principal Investigator*, Development of Guidelines for Message Content of Variable Message Signs. Minnesota Department of Transportation. November 1, 1993 - October 31, 1994, \$50,000.
- 52) *Co-Principal Investigator*, (with D. Foderberg and G. Davis). Development of a Systems Architecture for a Nation-Wide IVHS. Hughes Aircraft Company, January 20, 1994 - November 30, 1994, \$75,000.
- 53) *Principal Investigator*, Multi-modal perception of Front-to-Rear-End Collision Warning Systems. Minnesota Department of Transportation, September 15, 1993 - September 14, 1994, \$35,000.
- 54) *Principal Investigator*, Interaction of Non-Driving Tasks with Driving. Minnesota Department of Transportation. August 1, 1993-July 30, 1994. \$35,000.
- 55) *Principal Investigator*, Lighted Guidance Devices: Intelligent Workzone Traffic Control. Minnesota GUIDESTAR, Department of Transportation. January 1, 1994-August 31, 1994. \$63,000.
- 56) *Co-Principal Investigator*; (with S. Shekhar). Evaluation of Alternate Database Server Architecture for Archival of Traffic Data at the IVHS Center. Minnesota Department of Transportation. \$100,000.
- 57) *Co-Principal Investigator*; (with S. Shekhar). Traffic Data Management for Advanced Driver Information Systems. Minnesota Department of Transportation. July 1, 1993, to June 30, 1995, \$86,000.
- 58) *Co-Principal Investigator*, (with S. Shekhar). Multimedia Information Presentation in Smart Cars and Highways. Federal Highway Administration (FHWA), July 1, 1993, to June 30, 1994. \$43,000.
- 59) *Principal Investigator*, Programmatic Support for Human Factors and Safety Evaluations in Transportation. IVHS Institute. July 1, 1994, to June 30, 1995. \$350,000.
- 60) *Director*, Human Factors Evaluation of the Volvo Dynaguide and Ford-Indikta Radio Data System (RDS) Traffic Message Channel Receiver, Minnesota Department of Transportation. January 1994 to September 1994. \$50,000.
- 61) *Principal Investigator*, Human Factors Evaluations of Issues in Motorcycle Safety. Motorcycle Safety Foundation, Irvine, CA, January 1995 to March 1996. \$65,000.

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- 62) *Co-Principal Investigator*: (with S. Shekhar). Archival of Traffic Data at IVHS Center (Phase II), Scaling up to 30 Second Data. Center for Transportation Studies. July 1, 1995, to June 30, 1996. \$80,000.
- 63) *Co-Principal Investigator*: (with S. Shekhar). Evaluation of Road-Map Data for Intelligent Highway Systems. Intelligent Transportation Institute, Center for Transport Studies, July 1, 1995, to June 30, 1996. \$45,000.
- 64) *Principal Investigator*. Human Factors and Safety Issues in Intelligent Transportation Systems. Intelligent Transportation Institute, Center for Transport Studies, July 1, 1995, to June 30, 1996. \$100,000.
- 65) *Co-Principal Investigator* (with G. Legge). Program in Visual Perception and Motor Control. National Science Foundation, September 1995 to September 2000. \$112,500.
- 66) *Principal Investigator*. Intelligent Transportation Systems Human Factors and Safety Research. Intelligent Transportation Institute, Center for Transport Studies. July 1, 1996, to June 30, 1997. \$350,000.
- 67) *Principal Investigator*. Interactive Simulation Capability. University of Minnesota, Graduate School, July 1, 1996, to June 30, 1997. \$14,746.
- 68) *Co-Principal Investigator*: (With Kip Smith). Shared Decision-Making in the National Aerospace System. Federal Aviation Administration, September 15, 1996, to September 14, 1998. \$600,080.
- 69) *Principal Investigator*. Evaluation of Older Driver Mobility Problems with Reference to Accident Avoidance. Pennsylvania State University and University of Minnesota, Center for Transportation Studies, February 19, 1997, to September 30, 1997. \$4,000.
- 70) *Principal Investigator*. Examination of Driver Fatigue States. University of Minnesota, Center for Transportation Studies, March 15, 1997 to June 30, 1997, \$6,000.
- 71) *Co-Principal Investigator* (with M.J. Kane). Investigating Differences in Driver Accident Involvement: The Influence of Perceptual Motor Competence. University of Minnesota, Center for Transportation Studies, July 1, 1997, to June 30, 1998. \$32,612.
- 72) *Co-Principal Investigator* (with P.A. Desmond). The Effectiveness of a Motivational-Based Fatigue-Countermeasure in Reversing Fatigue-Related Decrements in Driving. University of Minnesota, Center for Transportation Studies, July 1, 1997, to June 30, 1998. \$30,000.
- 73) *Principal Investigator*. Transportation Systems Human Factors and Safety Research. University of Minnesota, Center for Transport Studies. July 1, 1997, to June 30, 1998. \$250,000.
- 74) *Co-Principal Investigator*: (with K. Smith). Pilot Decision-Making in Free-Flight. Federal Aviation Administration, September 15, 1997, to December 31, 1997. \$48,731.
- 75) *Co-Principal Investigator* (with P.A. Desmond). An intra-modal assessment of performance and physiological changes associated with fatigue in complex human performance environments. University of Minnesota, Center for Transportation Studies, November 1, 1997, to September 30, 1998. \$50,000.
- 76) *Principal Investigator*, Driver Performance in Accident Likely Conditions, Phase I. University of Minnesota, Center for Transportation Studies, July 1, 1998, to June 30, 2000. \$268,967.
- 77) *Principal Investigator*. Human Factors and Safety Research. University of Minnesota, Center for Transport Studies, July 1, 1998, to June 30, 1999. \$350,000.
- 78) *Co-Principal Investigator*. (With K. Harder), Designing Safe Transportation Environments. The Design Initiative, December 1, 1998, to June 30, 1999. \$50,000.
- 79) *Co-Principal Investigator*. (With S. Scallen), The Effect of Vision Enhancement Systems on Older Drivers Ability to Drive at Night and Inclement Weather. Center for Transportation Studies in Association with Transport Canada, University of Calgary, January 15, 1999, to December 31, 1999. \$43,000.
- 80) *Principal Investigator*. Development of Founding Information: Design from Disaster. Minnesota Design Initiative, March 1, 1999, to June 15, 1999. \$6,000.
- 81) *Co-Principal Investigator*, (with K. Harder). User-Centered Auditory Warning Signals in Snowplows. Minnesota Department of Transportation [MN/DOT]. July 1, 1999, to June 30, 2000. \$50,000.
- 82) *Principal Investigator*. Human-Centered Design: A Focus of Excellence. Minnesota Design Initiative, July 1, 1999, to June 30, 2000. \$35,000.
- 83) *Co-Principal Investigator*, (with J. Carmody). Sustainable Buildings and Human Factors. Minnesota Design Initiative, July 1, 1999, to June 30, 2000. \$50,000.

84) *Principal Investigator*, Performance Research in Transportation and Transit Safety. Intelligent Transportation Institute, Center for Transportation Studies, University of Minnesota. July 30, 1999, to October 31, 1999. \$81,625.

85) *Principal Investigator*, (with W. Harris). Information Processing Changes Following Extended Stress. Office of Naval Research. August 31, 1999, to December 31, 1999. \$21,270.

86) *Principal Investigator*. Design Research Dissemination. Center for Cognitive Sciences, University of Minnesota, October 1999, \$1,500.

87) *Co-Principal Investigator*, (with K. Harder). Psychological and Roadway Correlates of Aggressive Driving. Intelligent Transportation Institute, Center for Transportation Studies. November 1, 1999, to October 31, 2000. \$73,500.

88) *Co-Principal Investigator*, (with K. Harder). Human Factors Evaluation Component. Part of the Intelligent Vehicle Initiative Field Operational Test Program, Federal Highway Administration, \$6.55 Million Total Program Funds. FHWA, January 1, 2000 to December 31, 2002, (Human Factors Funds) \$575,434.

89) *Principal Investigator*, Human Factors Issues in Transportation Safety. Intelligent Transportation Institute, Center for Transportation Studies, November 1, 1999, to October 31, 2000. \$134,070.

90) *Co-Principal Investigator* (with K. Harder). Snowplow Simulation. Minnesota Department of Transportation, November 1, 1999 to October 31, 2000. \$50,571.

91) *Co-Principal Investigator* (with K. Harder). Accidents at Regulated Rural Intersections. Local Road Research Board, January 1, 2000, December 31, 2000. \$67,000.

92) *Principal Investigator* Human-Centered Design Project. Minnesota Design Initiative, February 28, 2000 to February 27, 2001. \$29,775.

93) *Co-Principal Investigator*. (With K. Harder). Designing Safe Transportation Environments. Minnesota Design Initiative, February 28, 2000, to February 27, 2001. \$16,032.

94) *Co-Principal Investigator* (with J. Carmody). 'Green' Building Design. Minnesota Design Institute, February 28, 2000 to February 27, 2001. \$50,000.

95) *Principal Investigator*, Human Factors in Intelligent Transportation. Intelligent Transportation Institute, Center for Transportation Studies, November 1, 2000, to February 28, 2001. \$82,000.

96) *Principal Investigator*, Driver Behavioral Response in Accident Likely Conditions, Phase II. Center for Transportation Studies, December 23, 2000, to March 31, 2002. \$45,000.

University of Central Florida: (At UCF, \$13,643,724: 79 Grants/Contracts).

97) *Co-Principal Investigator* (with M. Mouloua PI). Effects of Telematics on Driver Workload: A Protocol Development and Analysis. AAA Foundation for Traffic Safety. January 1, 2001, to December 31, 2001. \$118,210.

98) *Principal Investigator*. Stress, Workload and Fatigue on the Electronic Battlefield. Multi-Disciplinary University Research Initiative (MURI). July 1, 2001, to June 30, 2006. \$5,000,000.

99) *Recipient*. Summer Faculty International Diversity Scholarship, University of Central Florida, April 30-May 4, 2001. \$1,000.

100) *Principal Investigator*. (With M. Mouloua). The DELTA Program [Designed Elimination of Traffic Accidents. Center for Advanced Transportation Simulation, University of Central Florida and the Lynx Organization, July 1, 2001, to June 30, 2002. \$25,000.

101) *Co-Principal Investigator*. (With J. Smither, J. Koonce., M. Mouloua, and E. Rinalducci). Development of the Basic School Bus Driver Instruction Tutoring System. CATSS and Orange County School District. \$100,000.

102) *Co-Principal Investigator*. (With M. Mouloua). Interactive Driving Simulator and Neuro-Mapping Systems. Presidential Research Equipment Award. University of Central Florida. \$98,000.

103) *Co-Principal Investigator*. (With M. Mouloua). Conversion of Simulation and Training Technology to the Transportation Sector. I-4 Corridor Funding. \$75,000.

104) *Co-Principal Investigator* (With V.K. Sims). Visual search in augmented environments. STRICOM Research Projects, April 1, 2002, to March 2003. \$90,000.

105) *Recipient*. Summer Faculty International Diversity Scholarship, University of Central Florida, April 30-May 3, 2002. \$1,000.

106) *Co-Principal Investigator*. (With E. Salas) Adaptive Interfaces for Decision-Making. Auto-Adaptive Information Presentation, Collaborative Alliance Grant, DAAD19-01-1-0009, June 2001 to May 2002, \$20,000.

107) *Principal Investigator*. Nexgen-Infoworld. National Center for Simulation. Grant No. 64-03-825. April 30, 2002, to December 1, 2002. \$100,000.

108) *Co-Principal Investigator*. (With E. Salas and S. Fiore, and J. Bradshaw, N. Charness, D. Eccles, K.A. Ericsson, P. Feltovich, C. Janelle, R. Hoffman, G. Tenenbaum, & P. Ward) Florida Alliance for the Study of Expertise. (Co-PIs). National Science Foundation (Catalyst Award for a Science of Learning Center), 2003. \$220,000.

109) *Principal Investigator*. Human factors aspects of the Battlefield Augmented Reality Systems (BARS). Component of the Research on Augmented Virtual Environment Systems (RAVES) Project. (B. Goldiez, Principal Scientist), Office of Naval Research (ONR), May 2003 to August 2004. \$40,000.

110) *Co-Principal Investigator* (with R. Gilson and M. Mouloua). Covert Multi-Sensory Feedback for the Dismounted Soldier. Defense Advanced Research Projects Agency (DARPA), October 2003-April 2004. \$806,432.

111) *Co-Principal Investigator*. (With E. Salas) Understanding Adaptive Behavior. Collaborative Alliance Grant, DAAD19-01-1-0009, January 2004 to May 2004, \$20,000.

112) *Principal Investigator*. The Operation of Human-Robot Interfaces under Stress and Maladaptive Workload Conditions. Army Research Laboratory through the Micro-Analysis and Design CTA. April 2004 to December 2004. \$44,000.

113) *Principal Investigator*. Supporting the Incorporation of Human Behavior and Constraints into Unit of Action Simulations. Army Research Laboratory through the Micro-Analysis and Design CTA. April 2004 to December 2004. \$100,000.

114) *Principal Investigator*. Individual Differences in Human Information Processing Capabilities: Sensitivity to Variations in Workload, Stress and Fatigue. Defense Advanced Research Projects Agency, (DARPA), April 2004 to December 2004. \$119,000.

115) *Principal Investigator*. Output Analysis, Maintenance and Stressor Enhancements for IMPRINT. Army Research Laboratory through the Micro-Analysis and Design CTA. April 2004 to December 2004. \$49,049.

116) *Principal Investigator*. Automated Behavioral Health Triage. STTR with Professional Services Group Inc., US Army Medical Research and Materiel Command. October 2004 to February 2005. \$33,300.

117) *Principal Investigator*. Human-Robot Interaction Component of the ECATT/MR STO Research and Testbed Product Integration Research and Development and Evaluation Command (RDECOM), United States Army, Under Contract No. N61339-05-C-0046. February 2005 to February 2006. \$98,498.

118) *Principal Investigator*. Component improvements for soldier centered tools. Army Research Laboratory through the Micro-Analysis and Design CTA. June 2005 to April 2006. \$97,295.

119) *Principal Investigator*. Collaborative Technologies and their Effect on Operator and Team Workload in BMC2 Domains: A Multi-Modal Approach. US Air Force Research Laboratories, Wright-Patterson AFB, Dayton, OH, September 2005-August 2006. \$99,940.

120) *Principal Investigator*. Utilization of In-Vehicle Warning Systems. Florida Department of Transportation, Tallahassee, FL, September 2005-November 30, 2006. \$89,469.

121) *Co-Principal Investigator* (with M. Koltko-Rivera). Enhancing war-fighter performance through predictive model-based decision aids and adaptive displays. U.S. Navy, Innovative Research Grant, November 2005-March 2006, \$85,000.

122) *Co-Principal Investigator* (with J.L. Szalma). Adaptive automation in human-agent teams: The effects of role change, task demand and operator characteristics on system performance and operator trust. Army Research Laboratory, June 1st, 2006 – May 30th, 2007. \$74,765.

123) *Co-Principal Investigator* (with R. Gilson). A multi-modal approach to unmanned vehicle operations in dynamic environments. Army Research Laboratory, June 1st, 2006 – May 30th, 2007. \$101,140.

124) *Principal Investigator*. Scalable Interfaces. Army Research Laboratory through Micro-Analysis and Design, DAAD10-01-C-0065, March 29th, 2006, - January 24th, 2007. \$74,991.

125) *Co-Principal Investigator*. (with G. Conway). A Human Factors Examination of Driver Response to a Specific Workzone Design and Key Moderating Factors. (Extension to Previous F/DOT Project), Florida Dept. of Transportation, Tallahassee, FL, June 1st, 2006, to May 31st, 2007. \$84,624.

126) *Principal Investigator*. Scalable Interfaces for Dismounted Soldier Applications. Army Research Laboratory through Alion, DAAD10-01-C-0065, January 29th, 2007 - January 30th, 2008. \$152,000.

- 127) *Principal Investigator*. Scalable Interfaces and Controls for Dismounted Soldier Applications. Army Research Laboratory through Alion, DAAD10-01-C-0065, September 30th, 2007, - September 29th, 2008. \$150,000.
- 128) *Co-Principal Investigator*. (with S. Howe, J. Szalma, D. Halpern, & R. Hoffman). Festschrift support for Joel Warm. American Psychological Association, January 2008 to May 2008. \$10,000.
- 129) *Principal Investigator*. Adaptation of Physiological and Cognitive Workload via Interactive Multi—Modal Displays Phase I. Army Research Office. Government Contract Number: W911NF-08-1-0196 June 1st, 2008, to December 31st, 2008. \$94,000.
- 130) *Principal Investigator*. Signal detection and information assimilation. US Navy-ASEE Sabbatical Leave Program. Awarded \$45,000 (Declined Due to Program Constraints on On-Going Funding). August 2008-May 2009.
- 131) *Principal Investigator*. Adaptation of Physiological and Cognitive Workload via Interactive Multi—Modal Displays: Phase II. Army Research Office. January 1st, 2009, to November 30th, 2009. \$62,500.
- 132) *Principal Investigator*. Adaptation of Physiological and Cognitive Workload via Interactive Multi—Modal Displays: Phase III. Army Research Office. December 1st, 2009, to November 30th, 2010. \$88,000.
- 133) *Principal Investigator*. Cognitive Modeling of Interactive Response Capacity Under Time Pressure. Army Research Office, March 31st, 2010, to November 30th, 2010. \$49,966.
- 134) *Co-Principal Investigator*. (With R. Shumaker Principal Investigator and S. Fiore, A. Wu., F. Jentsch., S. Gallagher, L. Boloni, D. Nicholson, D. Barber, S. Lackey, & L. Reinerman, Co-PI's). Robotics Collaborative Technology Alliance Planning Phase. General Dynamics, Sub-Contract of the Human-Robot Interaction Collaborative Technology Alliance. May 1, 2010 to June 30, 2010. \$67,290.
- 135) *Co-Principal Investigator*. (With J. Whitmire). Vision and Eye Tracking System for Advanced Human-Machine Interaction Assessment. College of Sciences Equipment Grant, University of Central Florida, June 2010. \$66,650...
- 136) *Principal Investigator*. Trust in Human-Robot Interaction: Phase I. Component Task of the Robotics Collaborative Technology Alliance July 1st, 2010, to December 31, 2010. \$175,352.
- 137) *Principal Investigator*. Adaptation of Physiological and Cognitive Workload via Interactive Multi—Modal Displays: Phase IV. Army Research Office. December 1st, 2010, to June 30th, 2011. \$69,000.
- 138) *Principal Investigator*. Expanding a Smart Tutoring System Supporting Acquisition and Retention Skills. Office of Naval Research (ONR), Jong Kim (Co-PI), (Sub-Contractor to Pennsylvania State University, F. Ritter PI). \$61,000. October 2010 to September 2011.
- 139) *Co-Principal Investigator*. (With J. Szalma). Training for Vigilance in a Videogame-based Environment: The Effectiveness of Knowledge of Results and Diagnosticity of Feedback on Performance, Workload and Stress. Army Research Institute (ARI). March 2011-March 2013. \$398,472.
- 140) *Principal Investigator*. Trust in Human-Robot Interaction: Phase II. Component Task of the Robotics Collaborative Technology Alliance April 28th, 2011, to October 31st, 2011. \$99,663.
- 141) *Winning Team Member* (R. Hanowski, VTTI, *Principal Investigator*). Human Factors Support for Human Vehicle Performance Research. NHTSA IDIQ DTNH22-0-10-R-00359. August 2011 to July 2016.
- 142) *Principal Investigator*. Expanding a Smart Tutoring System Supporting Acquisition and Retention Skills. Phase II, Office of Naval Research (ONR), Jong Kim (Co-PI), (Sub-Contractor to Pennsylvania State University, F.E. Ritter PI). September, 2011to September 2012. \$5,960,
- 143) *Principal Investigator*. Trust in Human-Robot Interaction: Phase III. Component Task of the Robotics Collaborative Technology Alliance, November 1st, 2011, to April 30th, 2012. \$32,400.
- 144) *Principal Investigator*. Expanding a Smart Tutoring System Supporting Acquisition and Retention Skills. Phase III, Office of Naval Research (ONR), Jong Kim (Co-PI), (Sub-Contractor to Pennsylvania State University, F.E. Ritter PI). January 2012 to September 2012. \$18,000.
- 145) *Principal Investigator*. Empirical investigation of social dynamics and trust in soldier-robot teams. Component Task of the Robotics Collaborative Technology Alliance, May 16th, 2012, to May 15th, 2013. \$105,000.
- 146) *Principal Investigator*. Factors Influencing Search in Complex Driving Environments. Component Element of the Georgia Institute of Technology/NHTSA UTC Project, Contract Number: RC614 G3, January 1st, 2012, to January 31st, 2014. \$45,000
- 147) *Principal Investigator*. Investigations of the Role of Trust and System Transparency in SMM Development during Tactical HRI. Component Task of the Robotics Collaborative Technology Alliance, June 6th, 2013, to April 15th, 2014. \$57,485
- 148) *Principal Investigator*. Empirical Investigation of Social Dynamics and Trust in Soldier-Robot Teams. Component Task of the Robotics Collaborative Technology Alliance, June 6th, 2013, to April 15th, 2014. \$40,000.

149) *Principal Investigator*. Investigating the Role of Trust and System Transparency in SMM Development during Tactical HRI. Component Task of the Robotics Collaborative Technology Alliance, Contracting Agency, General Dynamics for the Army Research Laboratories, April 15th, 2014, to April 14th, 2015. \$67,500.

150) *Co-Principal Investigator*, Social Learning in Mixed Human-Robot Groups for People with Disabilities. National Science Foundation (NSF) (A. Behal, Principal Investigator), August 1st, 2014, to July 31st, 2017. \$1,062,043.

151) *Principal Investigator*, Trust and Transparency in Human-Robot Collaboration and Interaction. Component Task of the Robotics Collaborative Technology Alliance, Contracting Agency, General Dynamics for the Army Research Laboratories, August 11th, 2014 to May 1st, 2015. \$50,000.

152) *Principal Investigator*. Examinations of Driver Distraction. February 1st, 2015, to January 31st, 2016. Sub-Contract from the University of Iowa, Safety Research Using Simulation Center (SAFER-SIM), University Transportation Center of Excellence. \$25,000.

153) *Principal Investigator*, Workload and Scheduling for Long Duration Space Missions. NASA Johnson Space Center, March 9th, 2015-February 29th, 2016. \$22,615.

154) *Principal Investigator*, Trust for Human-Robot Collaboration Teams. Component Task of the Robotics Collaborative Technology Alliance, Contracting Agency, General Dynamics for the Army Research Laboratories July 1st, 2015, to June 30th, 2016, \$85,126.

155) *Principal Investigator*. Effects of Robot Speed of Approach on Human-Robot Trust Levels. Component Task of the Robotics Collaborative Technology Alliance, Contracting Agency, General Dynamics for the Army Research Laboratories, October 10th to May 1st, 2016. \$60,000.

156) *Principal Investigator*. Evaluating Aspects of Human-Robot Interaction. Component Task of the Robotics Collaborative Technology Alliance, Contracting Agency, General Dynamics for the Army Research Laboratories, April 7th, 2016, to January 20th, 2017. \$45,000.

157) *Co-Principal Investigator*, Social Learning in Mixed Human-Robot Groups for People with Disabilities. National Science Foundation (NSF) (A. Behal, Principal Investigator), August 1st, 2016, to July 31st, 2017. \$92,987 (Hancock Element from Overall Budget).

158) *Faculty Mentor*, Oakridge Institute for Science and Education (via U.S. Air Force Research Laboratories). Student Support Fellowship. January 2017 – December 2017, \$43,880.

159) *Principal Investigator*, Performance and Driving. MNAO Corp. of America, Inc. March 23rd, 2017, to June 23rd, 2017. \$99,999.

160) *Principal Investigator*, Performance and Driving: Phase 1A. MNAO Corp. of America, Inc. June 23rd, 2017, to August 23rd, 2017. \$66,000.

161) *Principal Investigator*, Performance and Driving: Phase 1B. MNAO Corp. of America, Inc. August 23rd, 2017, to October 23rd, 2017. \$66,000.

162) *Faculty Mentor*, Oakridge Institute for Science and Education (via U.S. Air Force Research Laboratories). Student Support Fellowship. August 2017 – June 2018, \$57,000.

163) *Principal Investigator*, The Experience of Flow in Driving: Phase 1C. MNAO Corp. of America, Inc. October 23rd, 2017, to December 31st, 2017. \$66,000.

164) *Faculty Mentor*, Oakridge Institute for Science and Education (via U.S. Air Force Research Laboratories). Student Support Fellowship. Jan 2018 – December 2018, \$59,200.

165) *Principal Investigator*, Performance and Driving. Phase 1D. MNAO Corp of America, January 26th, 2018, to February 22nd, 2018. \$8,133.

166) *Principal Investigator*, Performance and Driving: Phase II. MNAO Corp. of America, Inc. January 1st, 2018, to August 31st, 2018. \$358,456.

167) *Principal Investigator*, Performance and Driving: Phase IIa. MNAO Corp. of America, Inc. September 1st, 2018, to December 31st, 2018. \$132,000.

168) *Faculty Mentor*, Oakridge Institute for Science and Education (via U.S. Air Force Research Laboratories). Student Support Fellowship. Jan 2019 – December 2019, \$53,700.

169) *Principal Investigator*, Advanced Post-Doctoral Research Training. University of Central Florida, Orlando, FL, October 2018-September 2019. \$25,000.

170) *Co-Principal Investigator*. UCF Innovation-Corps (I-Corps) Training Award. [Awarded under the UCF, NSF's Primary Award, Number CNS-1735841. June 17th to July 12th, 2019, \$2,550.

171) *Principal Investigator*. Air Carrier Training Recommendations to Address Limitations of Pilot Procedures during Unexpected Events in NextGen Operations. \$352,748. October 1st, 2019, to September 30th, 2020.

172) *Co-Principal Investigator*, (R. Azevedo Principal Investigator). Symbiosis: The Center for Augmented Intelligent Human-Machine Symbiosis for Solving Societal Grand Challenges UCF Seed Funding Program. \$40,000. January 202 to December 2020.

173) *Faculty Mentor*. Oakridge Institute for Science and Education (via U.S. Air Force Research Laboratories). Student Support Fellowship. Jan 2020 – December 2020, \$25,000.

174) *International Collaborator*, University of the Sunshine Coast, (P. Salmon, PI, G. Read, J. Thompson, N. Stanton, C. Baber). Managing the risks of artificial general intelligence. [DP200100399], \$300,000 Australian Research Council. Hancock Component \$12,000. (UCF Office of Research denied my participation). January 2020 – January 2022.

175) *Principal Investigator*, Air Carrier Training Recommendations to Address Limitations of Pilot Procedures during Unexpected Events in NextGen Operations.: Phase II \$408,937. October 1st, 2020, to April 30th, 2024.

176) *Principal Investigator*, Multimodal, Adaptable, and Dynamic Human Autonomy Team Relationships (MAD-HATR). Subcontract to UCF from Soartech, December 2021 to May 2023. \$98,864.

Donations in Kind to Laboratories

1) American Honda. Three Vehicles [Two for Static Simulation, One for On-Road Evaluations], December 1989. Value \$73,000.

2) Northwest Aerospace Corporation. Fixed Base Aviation Trainer for Simulation Research, January 1991, Value \$32,000.

PROFESSIONAL AFFILIATIONS

Organization Memberships

Present

2020-(INCOSE).International Council on Systems Engineering.

2015-American Institute for Aeronautics and Astronautics (AIAA).

2014-Royal Aeronautical Society (RAeS), (Fellow, 2015).

2005-Institute of Electrical and Electronic Engineers (IEEE) (Previous Member 1985, Senior Member 2011, Fellow, 2017)

2004-American Psychological Society (APS) (Fellow, 2005).

2002-Aerospace Medical Association (ASMA) (Associate Fellow 2010, Fellow 2012).

2001-New York Academy of Sciences (NYAS) (Previous Member, 1983).

2000-American Psychological Association (APA) (Fellow, Division 19, 21, 2007, Division 1, 2013).

2000-MERG Ergonomics Society [Now: Institute of Ergonomics and Human Factors] (Fellow, F.Erg.S, 2002).

2000-American Association for the Advancement of Science (AAAS) (Previous Member 1983), (Fellow, 2012).

1993-International Society for the Study of Time (ISST).

1984-Psychonomic Society (Fellow, 2003).

1980-International Ergonomics Association. (IEA Council, 1997-2001, Fellow 2001).

1980-Human Factors and Ergonomics Society. (Fellow, 1998; President 2000; Executive Council 1999-2001, 2002-2005; President 2020; Executive Council 2020-2022).

Previous

2000-Environmental Design Research Association (EDRA)

2000-Southeastern Psychological Association (SEPA).

1996-Minnesota Academy of Sciences (MAS).

1992-Intelligent Transportation Society of America (ITSA).

1990-Society of Automotive Engineers (SAE).

1988-International Society for Psychophysics (ISP).

1988-International Foundation for Industrial Ergonomics and Safety Research.

1986-Canadian Human Factors Society.

1986-Society of Biological Psychiatry.

1985-American Society of Safety Engineers (ASSE).

1983-American Conference of Government and Industrial Hygienists (ACGIH).

1983-Association of Aviation Psychologists.

1982-American Association for the Advancement of Psychology.

1981-Undersea Medical Society.

1980-North American Society for the Psychology of Sport and Physical Activity 9NASPPSA), (Current Member, 2022).

Society Committee Memberships

2022	Scientific Advisory Board, Applied Human Factors/Ergonomics International Conference (Neuroergonomics and Cognitive Engineering Track).
2019-2022	Interactional Ergonomics Association, Executive Committee
2020-2022	HFES Government Fellows Selection Committee
2020-2022	HFES President's Award Selection Committee (Chair, 2021)
2020-2022	HFES Government Relations Committee.
2020-2022	HFES Nominations and Election Committee (Chair, 2021)
2020-2022	Executive Committee, Human Factors and Ergonomics Society (Chair, 2021).
2020-2022	HFES Policy and Planning Committee (Chair, 2021).
2020-2-22	HFES Meetings Committee
2020-2022	HFES Executive Council (Chair, 2021)
2020-2022	HFES Finance and Budget Committee.
2019-2021	Member, International Ergonomics Association Council.
2019-2020	Scientific Committee of the 3rd International Neuroergonomics Conference
2019	Interim Chair. Hansen Award Committee, Human Factors and Ergonomics Society.
2019	Scientific Board, Technology, Mind and Society II, American Psychological Association, Washington, DC.
2018	Scientific Committee, 2 nd International Neuroergonomics Conference, Philadelphia, June.
2018	International Ergonomics Association Technical Committee on Affective Design, (Chair).
2018	Scientific Committee: Sixth International conference on Driver Distraction and Inattention, Gothenburg, Sweden.
2018	Scientific Board, Technology, Mind and Society, American Psychological Association, Washington, DC.
2017	Scientific Advisory Board Wearable Technology, Applied Humans Factors and Ergonomics Conference, Orlando, FL, USA.
2017	Scientific Advisory Board Member, Neuroergonomics and Cognitive Engineering, Applied Humans Factors and Ergonomics Conference, Orlando, FL, USA.
2016	Scientific Committee, 1 st International Neuroergonomics Conference, Paris, France.
2016	Technical Program Board (7 th International Conference on Applied Human Factors and Ergonomics (Cognitive and Neuroergonomic Committee), Orlando, FL.
2015	Board Member, Technical Committee, IEEE CogSimA Conference, Orlando, FL.
2013	Board Member, IEEE CogSimA Conference.
2012	Board Member, International Conference on Applied Human Factors and Ergonomics.
2011	Scientific Committee, Second International Conference on Driver Distraction and Inattention, Sweden.
2011	Chair, Honors Award Committee, Division of Applied Experimental and Engineering Psychology, APA.
2011	Chair, Taylor Award Committee, Division of Applied Experimental and Engineering Psychology, APA.
2010	Technical Program Committee, IEEE Conf. on Cognitive Methods, Situation Awareness and Decision Support.
2009	Technical Program Board, 2010 AHFE International, Miami, FL.
2007-2008	National Academy of Sciences, Committee on The Future of Neuroscience in the Army.
2007-present	Affective Product Design Technical Committee of the International Ergonomics Association.
2007	Augmented Cognition International Ambassador.
2005-2008	Committee Member, Int. Standards Organization ISO/TC 159/SC5, Ergonomics of the Physical Environment.
2005	Board Member, Inaugural Augmented Cognition International Conference.
2004-2006	<i>Historian</i> , Human Factors and Ergonomics Society.
2004-2009	Board of Directors, Society for Human Performance in Extreme Environments.
2004	International Scientific Board Member, 7 th International Conference on Work with Computing Systems
2004	International Technical Program Committee, Cognitive Systems Engineering in Process Control (CSEPC '04).
2002-2008	National Research Council, National Academy of Sciences, Committee on Human Factors.
2002-2005	Human Factors and Ergonomics Society, Executive Council.
2002-2006	IEA Fellows Selection Group
2001	Driving Assessment Advisory Committee
2001	Co-Organizer, NATO Workshop on Stress and Performance.
2001-2007	Member, Arnold Small Lecture Committee, Human Factors and Ergonomics Society.
2000-2003	International Scientific Advisory Board, 15 th Triennial Congress of the International Ergonomics Association.
2000-2001	Program Committee, 1 st Human-Centered Transportation Simulation Conference
2000-2002	HFES IEA Representatives Committee.
1999-2001	Steering Committee, Conference on Human Interaction with Aviation Systems.
1999-2001	Human Factors and Ergonomics Society Executive Council
1999-2003	Member, International Ergonomics Association Council.
1998-2001	Executive Council, Human Factors and Ergonomics Society.
2000	Steering Committee, Fourth Automation Technology and Human Performance Conference and Third Conference on Situation Awareness in Complex Systems.
2000	Chair, Executive Council, Human Factors and Ergonomics Society.
1998-1999	Chair, HFES Policy and Planning Committee.
1997-2006	Member, Human Factors and Ergonomics Society, Distinguished Foreign Colleague Award.
1997-2001	Advisory Board Member, Midwest Center for Occupational Health and Safety, University of Minnesota.
1997-2000	Scientific Organizing Committee: International Ergonomics Association (IEA).

2000	International Ergonomics Association-Human Factors and Ergonomics Society Meeting Coordinating Committee.
1998-2003	Delegate, Human Factors and Ergonomics Society to the International Ergonomics Association.
1998-1999	Chair, Planning Committee, Human Factors and Ergonomics Society.
1995-1998	Alternate Delegate of the Human Factors and Ergonomics Society to the International Ergonomics Association.
1995-1997	Member, International Scientific Advisory Board, 13th Triennial Congress of the International Ergonomics Association.
1994-1997	Member, Center for Transport Studies Conference Planning Committee
1995-1997	Member, Distinguished Foreign Colleague Selection Committee, Human Factors and Ergonomics Society.
1994-1997	Member, GUIDESTAR IVHS Long-Range Planning Committee.
1991-1997	Member of the Human Factors and Safety Committee of the Intelligent Vehicle Highway Society of America (IVHS America), Member of the Research Subcommittee.
1994-1996	Member of the National Research Council Panel on Human Factors in the Design of Tactical Display Systems for the Individual Soldier. National Academy of Sciences.
1994	Scientific Committee, First Automation Technology and Human Performance Conference, Washington, DC.
1991-1992	Chair, Human Factors Society Council of Technical Groups, Student Dissertation Fellowship Committee.
1989-1991	Safety Technical Committee of the Human Factors Society Representative to the Council of Technical Groups.
1988-1989	Program Chair, Industrial Ergonomics Committee, American Industrial Hygiene Association.
1988	International Scientific Advisory Board, International Conference on Ergonomics of Advanced Manufacturing and Hybrid Automated Systems, Louisville, KY, August.
1987-1988	Assistant Program Chair, Ergonomics Committee, American Industrial Hygiene Association.
1987	Advisory Panel for the Second International Conference on Ergonomics and Safety, Miami, FL.
1985-1987	Mining Committee, American Conference of Governmental Industrial Hygienists.
1986	Technical Program Committee, Second International Symposium on Human Factors in Organizational Design and Management.
1985-1988	Industrial Ergonomics Committee, American Industrial Hygiene Association.
1984	Technical Program Committee, First International Symposium on Human Factors in Organizational Design and Management.
1983-1984	Newsletter Editor, Environmental Design Technical Group, <i>Human Factors Society</i> .

PROFESSIONAL SERVICES

Government Consulting Services:

National Institute of Occupational Safety and Health (NIOSH); National Aeronautics and Space Administration (NASA); California Commission on Peace Officer Standards and Training; Los Angeles County Sheriff's Department; U.S. Bureau of Mines; U.S. Navy; National Science Foundation (NSF) Site Visit Team, National Advanced Driving Simulation (NADS); National Highway Traffic Safety Administration (NHTSA); State of Minnesota; State of California; City of West Palm Beach, Florida; Sandia National Laboratories; NASA-Institute for Human and Machine Cognition; Consortium of Research Fellows, US Army. Nuclear Regulatory Commission (NRC). National Academy of Sciences – Institute of Medicine (NAS-IOM).

Non-Profit Organization Consulting Services:

Air New Zealand Stewards and Stewardesses Union; Pacific Coast Electrical Association; Southern California Safety Institute; University of Southern California; Motorcycle Safety Foundation (MSF); American Trucking Association (ATA); Rensselaer Polytechnic Institute; Ben-Gurion University, Israel; Wright State University; Embry-Riddle Aeronautical University; Association for the Advancement of Automotive Medicine (AAAM); Technical University of Delft (TU Delft), National Institute for Mathematical and Biological Synthesis (NIMBioS), National Space Biomedical Research Institute (NSBRI). North American Electricity Reliability Corporation (NERC). American Civil Liberties Union. (ACLU)

For-Profit Organization Consulting Services:

ENDECO Inc.; TRW; Western Airlines; Union Pacific Railroad; Pacific Bell; Pacific Telesis; IT Corporation; WED (Disney) Enterprises; Thermacor Inc.; Boeing Commercial Airplane Company; Jones, Day, Reavis, & Pogue; Safety Specialists, Inc.; Shell Oil Company; Ontario Hydro; Environmental and Safety Resources; Information Dynamics Inc.; 3M Company; Madico Inc.; Becton-Dickinson Inc.; Interscience America, Inc.; UES Systems; Haworth, Inc.; Guidant CPI Inc.; Rockwell Collins, Inc.; Allina Medical Systems; Jardine, Logan and O'Brien; Stone and Moore; Infomove Inc.; James McCann P.A.; Motorola Inc.; General Motors (GM); Huey, Guilday, Tucker, Schwartz, & Williams; Anteon Corporation; RSK Assessments Inc., Teleologics Inc.; Saltz, Mongeluzzi, Barrett & Bendesky; Professional Services Group Inc.; Vaka, Larson, & Johnson, P.L.; Adams, Coogler, Watson, Merkel, Barry, & Kellner;; Fowler, White, & Burnett; Barber Hightower; Lobman, Carnahan, Batt, Angelle, & Nader; HRT Inc.; Colgen, Inc.; Murphy, Rogers, Sloss, & Gambel; ETC Corporation; Eric Block P.A., David Mishael, P.A.; Siemens Inc.; Pullin, Fowler, Flanagan, Brown, & Poe, Inc.; State Farm, Inc.; Frederic 'Ric' Stanley Jr., P.A. Abrahamson & Uiterwyk; AnapolSchwartz; Ringer, Henry, Buckley & Seacord, P.A.; Kelley/Ustal; Bogin, Munns, & Munns, P.A.; UX Science LLC; Lockheed-Martin Inc.; Human-Centered Solutions LLC; Morgan & Morgan; Ford Motor Corp.; Mazda Inc.; Distasio Law Firm. Kreindler & Kreindler Inc., LLP. Sellars, Marion & Bachi, P.A.; Cole, Scott, and Kissane (CSK).

Mazda North-American Organization (MNAO). Dolt, Thompson, Shepherd & Conway, PSC., Wicker, Smith, O'Hara, McCoy & Ford PA., Newsome Melton PA, Pardy & Rodriguez, Chamblee Ryan, P.C. Vanguard Attorneys. Sitlinger & Theiler; Darrigo, Diaz, and Jimenez, P.A.; Joyce and Reyes Law Firm, PA. Farrell, White & Legg PLLC.; Paderewski & Dannheisser PA.; Foreman, Watson, & Holtrey, LLP.; The Poppe Law Firm. Glen Goldsmith, PA.; Foley & Lardner.; Amanda Demanda Law Group; Keller, Melchiorre, & Walsh, PLLC; Bird, Marella, Boxer, Wolpert, Nessim, Dooks, Lincenberg & Rhow, P.C. Steve Blandford, LLC.

Expert Witness Experience

I have acted as an Expert Witness in the areas of Human Factors, Ergonomics, Applied Experimental Psychology and Behavioral Analysis for the past thirty years. To date, I have been associated with more 70 Cases in which I have given more than 25 Depositions. I have also testified as an Expert Witness in these areas in both State and Federal Court. A report concerning my Expert Witness skills and capacities appeared in the *Kentucky Trial Court Review* of May 2019.

Reviewing, Editing and External Examiner

Journals:

Associate Editor: *Theoretical Issues in Ergonomic Science*, *IEEE Transactions on Systems, Man and Cybernetics, Part A Humans and System* (2008-2013).

Editorial Boards: *Acta Psychopathologica* (2012-2015); *The Open Occupational Health & Safety Journal*, *Psychology Research and Behaviour Management*, *International Journal of Man-Machine-Environment System Engineering*, *International Journal of Occupational Safety and Ergonomics* (2003-2009), American Editor) *International Journal of Information Technology, Automation and Work*, *Ergonomics* (1995-2004: 2007-present), *Applied Ergonomics; Ergonomics; Human Performance in Extreme Environments*, *Transportation Human Factors*, *Transportation Research: Psychology and Behavior*, *Journal of Interdisciplinary Research in Physical Education*. (1995-1997), *Human Factors*. (1995-1997, 2000-2005), *Human Performance* (1997-2001), *IEEE Systems, Man, and Cybernetics Journal* (2010-2014), *International Journal of Applied Aviation Studies*, *Open Cybernetics and Systemics* (2007-present), *Open Occupational Health and Safety Journal* (2008-present). *International Encyclopedia of Human Factors and Ergonomics*, *Psychology Research and Behavior Management; Robotics; Human Intelligent Systems Integration*.

Special Issue Editorships:

- 1) (with M. Mouloua). Aging and performance. *Human Factors*.
- 2) (with A. Andre). Pilot workload. *International Journal of Aviation Psychology*.
- 3) (with J. Warm, C. Baldwin and J. Szalma). *Human Factors* (In Commemoration of Raja Parasuraman).
- 4) (with J.L. Szalma). *Human Factors* (In Commemoration of Joel Warm).

Reviewer: (Invited Journal Reviewer >75).

Accident Analysis and Prevention; Acta Psychologica; Adaptive Behavior; American Industrial Hygiene Association Journal; American Journal of Psychology; American Psychologist; Applied Ergonomics; Applied Cognitive Psychology; Applied Psychology: An International Review; Aviation, Space, and Environmental Medicine; Behavioral and Brain Sciences; Behavior Research Methods, Instruments, & Computers; Biomedical Research International; Cognition; Cognition, Technology, and Work; Cognitive Processing; Computers and Industrial Engineering; Current Directions in Psychological Science; Current Psychological Research and Reviews; Engineering Design and Automation; Ergonomics; European Journal of Applied Physiology; European Journal of Cognitive Psychology; Experimental Brain Research; Human Factors; Human Factors and Ergonomics in Manufacturing; Human Performance; IEEE Transactions on Systems, Man, and Cybernetics; IEEE Transactions on Visualization and Computer Graphics; IEEE Transactions on Intelligent Transportation Systems; Intelligent Vehicle-Highway Systems Journal; International Journal of Applied Aviation Studies; International Journal of Aviation Psychology; International Journal of Biometeorology; International Journal of Human-Computer Studies; International Journal of Human Factors in Manufacturing; International Journal of Industrial Ergonomics; International Journal of Psychophysiology; International Journal of Vehicle Information Systems; International Journal of Man-Machine Studies; Journal of Aviation Technology and Engineering; Journal of Behavior Therapy and Experimental Psychiatry; Journal of Cognitive Engineering and Decision-Making; Journal of Cognitive Psychology; Journal of Computers and Industrial Engineering; Journal of Environmental Psychology; Journal of Experimental Psychology: Applied; Journal of Experimental Psychology: Human Perception and Performance; Journal of Experimental Psychology: Learning, Memory, and Cognition; Journal of Gerontology: Psychological Sciences; Journal of Motor Behavior; Journal of Sports Sciences; Journal of Transportation Engineering; Journal of Transportation Safety and Security; Journal of Motor Learning and Development; Journal of Vehicular Technology; Memory & Cognition; Military Psychology; Nature; Neuroscience Letters; New England Journal of Medicine; Optometry and Vision Science, Perception & Psychophysics; Perceptual & Motor Skills; Personality and Social Psychology Review; PsyCH Journal; Psychology

and Aging; *Psychological Bulletin*; *Psychological Reports*; *Psychological Research*; *Psychophysiology*; *Public Library of Science (PLOS) One*; *Quarterly Journal of Experimental Psychology*; *Research Quarterly*; *Science*; *The Design Journal*; *Traffic Injury Prevention*.

Book Publishers:

Reviewer: Wiley and Sons, Freeman and Company, North Holland, Elsevier Science, Springer-Verlag, Lawrence Erlbaum, Academic Press, Oxford University Press, CRC Press, Cambridge University Press, Taylor & Francis, Ltd; Ashgate Publishers. Brill.

Conferences:

Reviewer: International Ergonomics Association (IEA), IEEE International Multidisciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support; Usability Professionals Association, Transportation Research Board, Cognitive Systems Engineering in Process Control (CSEPC), International Symposium Human Factors in Organization Design and Management, Safety Technical Group, Aging, Aerospace, Environmental Design, Organizational Design and Management, Surface Transportation, Visual Processes Technical Groups Human Factors and Ergonomics Society, Safety and Human Factors, ITS America, Usability Professionals Association, IEEE CogSIMA.

Grant Proposals:

Reviewer: (QNRF) *Qatar National Research Fund*, (ARC) *Australian Research Council*, (HKSC) *Hong Kong Science Council*, (BBSRC) *Biotechnology and Biological Sciences Research Council, UK*, (EPSRC) *Engineering and Physical Sciences Research Council, UK*, (TWT) *The Wellcome Trust, United Kingdom*, (ISF) *Israel Science Foundation*, (RNF) *Ran Naor Foundation*, (DSSRC) *Dutch Social Science Research Council*, (SNSF) *Swiss National Science Foundation*, (NASA) *National Aeronautics and Space Administration.*, (NSF) *National Science Foundation*, (NIA) *National Institute for Aging*, (NIH) *National Institutes of Health*, (NSERC) *Natural Sciences/ Engineering Research Council of Canada*, (BOM) *US Bureau of Mines*, (MTS) *Midwest Transportation Center*, (AUCA) *All-University Council on Aging*, (UCF) *Presidential Equipment Fund (Chair, 2002)*. *Canadian Social Sciences and Humanities Research Council*. *South African National Research Foundation (NRF)*. *Translational Research Institute for Space Health (TRISH) [Baylor University Partnership NASA's Human Research Program]*.

External Examiner

University of Witwatersrand, Johannesburg, South Africa.
Nanyang Technical University. Singapore.
University of Canberra. Canberra, Australia.
Linköping University, Linköping, Sweden.
Swinburne University of Technology, Victoria, Australia.
University of Twente, Enschede, The Netherlands.
University of Leeds, Leeds, England.
Rhodes University, Grahamstown, South Africa.
Australian National University, Canberra, Australia,
Ben Gurion University, Beer Sheva, Israel.
Technical University, Delft, The Netherlands (2).
Edith Cowan University, Western Australia, Australia.
University of Nottingham, Nottingham, England.
University of Groningen, The Netherlands
University of Toronto, Toronto, Canada.

Invited Participation

Invited Participant, Information Warfare in an Era of Great Power Competition. Georgia Tech Research Institute, Atlanta, GA, February 2022.
Invited Participant. CyberTRAIN Workshop, IST, UCF, Orlando, FL, January 2019.
Invited Participant, USAF Research Meeting, University of South Florida, Tampa, FL, April 2018.
Invited Participant. Driver Laboratory Research Workshop, Toronto Rehabilitation Institute, March 2017.
Invited Judge, 6th Annual Psychological Science Idol Datablitz, at the Meeting of the American Psychological Association, Orlando, FL, August 2012.
Invited Participant, National Academy of Sciences Workshop: The Future of Transportation, March 1997.
Invited Participant, National Research Council Panel Member on Human Factors, 1994.
Invited Participant, Workshop on Human Factors Issues for Resolving Adverse Effects of Human Work Underload and Workload Transitions in Advanced Transportation Systems. Idaho National Engineering Laboratory, Idaho Falls, ID, February 1994.

Invited Participant, NATO Advanced Study Institute on Motor Neuroscience, Calcatoggio, Corsica, France, September 1990.

Invited Participant, Eighth Annual Carmel Workshop (NASA), Workload and Training, Monterey, CA, January 1986.

Invited Participant, NATO Advanced Study Research Workshop, Stress and Human Performance, Les Arcs, France 1985.

Internal Awards

Named UCF Luminary Awardee, August 2021.

Approval, Extension to *University Trustee Chair* Appointment, 2022-2026.

Winner, UCF Research Incentive Award (RIA), \$5,000 Increase to Base Salary, 2021.

Winner, UCF College of Sciences, *Excellence in Research* (Distinguished Researcher of the Year), 2021.

Elected Member: Scroll & Quill Society, University of Central Florida, Elected April 2017.

Awarded, One Year Competitive Sabbatical (Highest Support Level), 2017-2018.

Approval, Extension to *University Trustee Chair* Appointment, 2017-2021.

Winner, UCF College of Sciences Dean's Distinguished Researcher Award, 2016.

Winner, UCF College of Sciences, *Excellence in Research* (Distinguished Researcher of the Year), 2016.

Winner, UCF Research Incentive Award (RIA), \$5,000 Increase to Base Salary, 2016.

Named UCF University Trustee Chair, 2012-2017.

Winner, UCF Research Incentive Award (RIA), \$5,000 Increase to Base Salary, 2011.

Winner, UCF College of Sciences, *Excellence in Research* (Distinguished Researcher of the Year), 2011.

Named UCF Pegasus Professor (The Highest Award of the University, 16th Individual so Named), 2009.

Awarded, One Year Competitive Sabbatical (Highest Support Level), 2008-2009.

Winner, UCF Research Incentive Award (RIA), \$5,000 Increase to Base Salary, June 2006.

Winner, UCF Office of Research "Four-Time Millionaire Club" Over \$1M Funding Four Years, 2005.

Winner, UCF Office of Research "Millionaire Club" for the Receipt of over \$1M Funding, 2005.

Winner, UCF Office of Research "Millionaire Club" for the Receipt of over \$1M Funding, 2004.

Winner, UCF Office of Research "Three-Time Millionaire Club" Over \$1M Funding Three Years, 2004.

Winner, UCF College of Arts and Sciences, *Excellence in Research*, 2004.

Winner, UCF Office of Research "Millionaire Club" for the Receipt of over \$1M Funding, 2003.

Winner, UCF Office of Research "Two-Time Millionaire Club" Receipt of over \$1M Funding Two Years.

Winner, UCF Office of Research "Millionaire Club" for the Receipt of over \$1M Funding, 2002.

(Formal Induction into the UCF Millionaire's Club).

Winner, UCF Office of Research "Tall Order" Award for the Receipt of Most DoD Funding, 2002.

Two-Time Winner, Best Presentation Award, Faculty International Studies Summer Institute, University of Central Florida, Orlando, FL (April 2001, May 2002).

Awarded Single Semester Leave: University of Minnesota, Spring Semester, 2000.

CTS Scholar, Center for Transportation Studies, University of Minnesota, 1999.

Awarded Sabbatical Leave: University of Minnesota, 1995.

Recipient, Office of International Education Faculty Grants, University of Minnesota (1990, 1992, 1993).

Citations of Excellence

Citation of Excellence (Highest Quality Rating) for the Paper: Parasuraman, R., Hancock, P.A., & Olofinboba, O. (1997). Alarm effectiveness in driver-centered collision-warning systems. *Ergonomics*, **40**, 390-399. by Electronic Intelligence, England.

Citation of Excellence (Highest Quality Rating) for the Paper: Hancock, P.A. (1996). Effect of control order, augmented feedback, input device and practice on tracking performance and perceived workload. *Ergonomics*, **39**, 1146-1162. by Electronic Intelligence, England.

Listings

Who's Who in the World, 2019. 2020.

Albert Nelson Marquis Lifetime Achievement Award Who's Who in the World, 2018.

Who's Who

Who's Who in America

Who's Who in the West

Who's Who in California

Who's Who in Science and Engineering

Who's Who of Emerging Leaders in America
 Who's Who in American Education
 Who's Who in the Mid-West
 Men of Achievement
 Five Thousand Personalities of the World
 American Men and Women of Science
 International Directory of Distinguished Leaders

Graduate Honors

Recipient, University of Illinois, Open Graduate Scholarship, 1982-1983.
Recipient, Laura Huestler Award Scholarship, 1982-1983.
Two-Time Recipient, Avery Brundage Scholarship, 1981-1982, 1982-1983.
Six-Time Recipient, Graduate College Travel Scholarship, 1981-1983
Recipient, Training of Personnel Open Graduate Scholarship, 1977-1978.
 Elected Member: Phi Delta Kappa.
 Elected Member: Phi Kappa Phi.

PUBLICATIONS

Books

- 1) Hancock, P.A. (Ed.). (1987). *Human Factors Psychology*. North-Holland, Amsterdam.
- 2) Hancock, P.A., & Meshkati, N. (Eds.). (1988). *Human Mental Workload*. North-Holland, Amsterdam.
- 3) Hancock, P.A., & Chignell, M.H. (Eds.). (1989). *Intelligent Interfaces: Theory, Research, and Design*. Amsterdam: North Holland. (Also, in Japanese, Translation and Japanese Edition, Mitsuo Nagamachi (Ed.). Kaibundo Press, 1991).
- 4) Flach, J., Hancock, P.A., Caird, J.K., & Vicente, K. (Eds.) (1995). *Global Perspectives on The Ecology of Human-Machine Systems*. Mahwah, N.J.: Lawrence Erlbaum.
- 5) Hancock, P.A., Flach, J., Caird, J.K., & Vicente, K. (Eds.) (1995). *Local Applications in The Ecology of Human-Machine Systems*. Mahwah, N.J.: Lawrence Erlbaum.
- 6) Hancock, P.A. (1997). *Essays on the Future of Human-Machine Systems*. Eden Prairie: MN Banta. (Second Printing, 1998, CD Version, 1999).
- 7) Hancock, P.A. (Ed.). (1999). *Human Performance and Ergonomics*. Volume 17: *Handbook of Perception and Cognition*. Academic Press: San Diego.
- 8) Hancock, P.A., & Desmond, P.A. (Eds.). (2001). *Stress, Workload and Fatigue*. Mahwah, N.J.: Lawrence Erlbaum.
- 9) *International Encyclopedia of Ergonomics and Human Factors*. (2001). W. Karwowski (Ed.). (P.A. Hancock, Board of Associate Editors). London: Taylor & Francis.
- 10) Vincenzi, D.A., Mouloua, M., & Hancock, P.A. (2004). (Eds.). *Human Performance, Situation Awareness and Automation: Current research and trends. (Volumes I and II)*, Mahwah, N.J.: Lawrence Erlbaum.
- 11) Hancock, P.A. (Ed.). (2005). *The Human Face of Technology: Selected Presidential Addresses of the Human Factors and Ergonomics Society*. Human Factors and Ergonomics Society: Santa Monica, CA.
- 12) Hancock, P.A., & Szalma, J.L. (Eds.). (2008). *Performance Under Stress*. Ashgate Publishing. Aldershot England.

- 13) Vincenzi, D., Wise, J.A., Mouloua, M., & Hancock, P.A. (2009) (Eds.). *Human Factors in Simulation and Training*. CRC Press: Boca Raton, FL.
- 14) Hancock, P.A. (2009). *Mind, Machine, and Morality*. Ashgate Publishing, Aldershot, England. (Nominated for the William James Award of the American Psychological Association; Nominated for the Ursula Gielen Book Award).
- 15) Hancock, P.A. (2009). *Richard III and the Murder in the Tower*. The History Press, England. (Nominated for the Crime Writers Association Gold Dagger Award for Non-Fiction). (Paperback Edition, February 2011). (International Best Seller, more than 10,000 Copies Sold).
- 16) Hancock, P.A. (2011). *Cognitive Differences in the Ways Men and Women Perceive the Dimension and Duration of Time: Contrasting Gaia and Chronos*. Edwin Mellen Press: Lewiston, New York.
- 17) Matthews, G., Desmond, P.A., Neubauer, C., & Hancock, P.A. (Eds.), (2012). *The Handbook of Operator Fatigue*. Farnham, Surrey, UK: Ashgate Publishing.
- 18) Hancock, P.A. (2013), Consulting Editor for: *The Oxford Handbook of Cognitive Engineering*. J.D. Lee and A. Kirlik (Eds.). Oxford University Press: Oxford.
- 19) Hoffman, R.R., Hancock, P.A., Parasuraman, R., Szalma, J.L., & Scerbo, M. (2015). (Eds.). *Handbook of Applied Perception Research*. Cambridge, Cambridge University Press.
- 20) Hancock, P.A. (2015). *Hoax Springs Eternal: The Psychology of Cognitive Deception*. Cambridge: Cambridge University Press. (Nominated for the William James Award of the American Psychological Association). [Reviewed by Naweed, A. (2019). "Hoax Springs eternal: the psychology of cognitive deception." *Ergonomics*, 62 (4), 593–594]. :
- 21) Hancock, P.A. (2017). *Transports of Delight: How Technology Materializes Human Imagination*. Cham, Switzerland: Springer. [Reviewed by Naweed, A. (2020). "Transports of delight: how technology materializes human imagination." *Ergonomics*, 63 (6), 787–788].
- 22) Mouloua, M., & Hancock, P.A. (2019). (Eds.). *Human Performance in Automated and Autonomous Systems: Current Theory and Methods*. Boca Raton: CRC Press.
- 23) Mouloua, M., & Hancock, P.A. (2019). (Eds.). *Human Performance in Automated and Autonomous Systems: Emerging Issues and Practical Perspectives*. Boca Raton: CRC Press.
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- 56) Schaefer, K.E., Billings, D.R., Szalma, J.L., Adams, J.K., Sanders, T.L., Chen, J.Y.C., & Hancock, P.A. (2013). *A Meta-Analysis of Factors Influencing the Development of Trust in Automation: Implications for Human-Robot Interaction* (ARL Report No. TR-6984). Aberdeen Proving Ground, Maryland: Army Research Laboratory.
- 57) de Visser, E., Parasuraman, R., Schaefer, K.E., & Hancock, P.A. (2013). *Enhancing Cognitive Agent Trust with Oxytocin* (Report No. Under Review). Aberdeen Proving Ground, Maryland: Army Research Laboratory.
- 58) Sanders, T.L., Oppold, P., Schafer, K., Kessler, T., Chen, J.Y.C., & Hancock, P.A. (2014). *Transparency and Trust in Human Robot Interactions*. (ARL Technical Report).
- 59) Kessler, T., Sanders, T.L., Schafer, K., Wild, T., & Hancock, P.A. (2014). *Interpersonal Distance Effects on Trust Relationships in Human-Robot Interaction* (ARL Technical Report). In review.
- 60) Wright, J.L., Chen, J.Y.C., Barnes, M.J., & Hancock, P.A. (2017). *Agent reasoning transparency: The influence of information level on automation-induced complacency*. (ARL-TR-8044). Aberdeen Proving Ground, MD: Army Research Laboratory.

- 61) Burford, C., Reinerman, L., Teo, G., Matthews, G., McDonnell, J., Orvis, K., Reicken, M., Hancock, P.A., & Metevier, C. (2018). *Unified multimodal measurement for performance indication research, evaluation, and effectiveness (UMMPIREE); Phase I Report*. (ARL-TR-8277). US Army Research Laboratory – HRED, Aberdeen Proving Ground, MD. January.
- 62) United States Air Force, Science Advisory Board (SAB) (2019). Technical Report: *21st Century Training and Education Technologies*. (Study Chair. M Endsley, Vice-Chair L. Kempel) October 2018-June (2019). [Hancock, Study Member].
- 63) Hancock, P.A., Cruitt, J., Kochan, J., Clapp, S., Bockelman, P., Jentsch, F., Reed, C., & Pruchnicki, S. (2021). *Project Research Plan*. Final Technical Report submitted to the Federal Aviation Administration (FAA), Washington D.C.
- 64) Hancock, P.A., Cruitt, J., Kochan, J., Gruber, M., Diaz, Y., Kaplan, A.D., & Pruchnicki, S. (2022). *Relevant research assessment concerning pilot response to unexpected events*. Final Technical Report submitted to the Federal Aviation Administration (FAA), Washington D.C. February.
- 65) Cruitt, J., Kochan, J., Gruber, M., Diaz, Y., & Hancock, P.A. (2022). *Air carrier training recommendations to address limitations of pilot procedures during unexpected events in NextGen operations: Pilot needs analysis*. Final Technical Report submitted to the Federal Aviation Administration (FAA), Washington D.C. February.
- 66) Cruitt, J., Kochan, J., Gruber, M., Diaz, Y., Hancock, P.A., Pruchnicki, S., & Reed, C. (2022). *Human-in-the-loop methods to test the effectiveness of training pilot responses to unexpected events*. Final Technical Report submitted to the Federal Aviation Administration (FAA) Washington D.C. February.

PRESENTATIONS

International Academic Meetings

- 1) Hancock, P.A., Dirkin G.R., & Byrne, A.M. Visual choice reaction time under conditions of induced cortical hyperthermia. Paper presented at the 14th Annual Meeting of the Human Factors Association of Canada, Toronto, Ontario, Canada: October 1981.
- 2) Hancock, P.A., & Dirkin, G.R. The effect of induced variation in head temperature on simple mental performance. Paper presented at the 15th Annual Meeting of the Human Factors Association of Canada, Toronto, Ontario, Canada: September 1982.
- 3) Newell, K.M., & Hancock, P.A. Movement accuracy in space-time. Paper presented at the International Conference on the Psychology of Motor Behavior, Dortmund, West Germany: March 1983.
- 4) Hancock, P.A., & Dirkin, G.R. Stressor induced attentional narrowing: Implications for design and operation of person-machine systems. Paper presented at the 16th Annual Meeting of the Human Factors Association of Canada, Toronto, Ontario, Canada: October 1983.
- 5) Runnings, D.W., Brown, S., Goodman, D., & Hancock, P.A. Temperature induced changes in neuromuscular function: Central and peripheral mechanisms. Paper presented at the 16th Annual Meeting of the Human Factors Association of Canada, Toronto, Ontario, Canada: October 1983.
- 6) Hancock, P.A., Meshkati, N., & Robertson, M.M. Physiological reflections of mental workload. Paper presented at the International Conference on Occupational Ergonomics, Toronto, Ontario, Canada: May 1984.
- 7) Robertson, M.M., Hendrick, H.W., & Hancock, P.A. Individual response to a computer-generated mental workload task as a function of cognitive complexity. Paper presented at the International Conference on Occupational Ergonomics, Toronto, Ontario, Canada: May 1984.
- 8) Newell, K.M., & Hancock, P.A. Speed-accuracy in space-time. Paper presented at the Motor Control Addition to the European Psychological Society Meeting, July 1984.
- 9) Meshkati, N., Hancock, P.A., & Robertson, M.M. The measurement of human mental workload in dynamic organizational systems: An effective guide for job design. Paper presented at the First International Symposium on Human Factors in Organizational Design and Management, Honolulu, Hawaii: August 1984.
- 10) Hancock, P.A., Chignell, M.H., & Loewenthal, A. KBAM: A prototype knowledge-based adaptive man-machine system. Paper presented at the Ninth Congress of the International Ergonomics Association, Bournemouth, England: September 1985.
- 11) Hancock, P.A. Toward a model of stressor interactions. Paper presented at the Ninth Congress of the International Ergonomics Association, Bournemouth, England: September 1985.

- 12) Hancock, P.A. The relationship between stress and attention. Paper presented at the Ninth Congress of the International Ergonomics Association, Bournemouth, England: September 1985.
- 13) Dirkin, G.R., & Hancock, P.A. An attentional view of narrowing: The effect of noise and signal bias on discrimination in the peripheral visual field. Paper presented at the Ninth Congress of the International Ergonomics Association, Bournemouth, England: September 1985.
- 14) Hancock, P.A., & Rosenberg, S. The application of the concepts of comfort and adaptability in assessing stress effect of working with display units. Paper presented at the International Scientific Conference on Work with Display Units, Stockholm, Sweden: May 1986.
- 15) Hancock, P.A. Stress, information-flow, and adaptability in individuals and collective organizational systems. Paper presented at the Second International Symposium on Human Factors in Organizational Design and Management, Vancouver, British Columbia, Canada: August 1986.
- 16) Hancock, P.A. On the use of time: The irreplaceable resource. Paper presented at the Second International Symposium on Human Factors in Organizational Design and Management, Vancouver, British Columbia, Canada: August 1986.
- 17) Rahimi, M., & Hancock, P.A. Optimization of hybrid production systems: The interaction of robots into human-occupied work environments. Paper presented at the Second International Symposium on Human Factors in Organizational Design and Management, Vancouver, British Columbia, Canada: August 1986.
- 18) Rahimi, M., & Hancock, P.A. Perception-decision and action processes in operator collision avoidance with robots. Paper presented at the Annual Meeting of the Human Factors Association of Canada, Vancouver, British Columbia, Canada: August 1986.
- 19) Hancock, P.A., Hurt, H.H., Jr., Ouellet, J.V., & Thom, D.R. Failures of driver sustained attention in the etiology of motorcycle-automobile collisions. Paper presented at the Annual Meeting of the Human Factors Association of Canada, Vancouver, British Columbia, Canada: August 1986.
- 20) Hancock, P.A. The impact of stress and mental workload on aircrew operation. Paper presented at the Fourth International Cabin Safety Symposium, Las Vegas, NV: March 1987.
- 21) Hancock, P.A. Performance criteria as exposure limits in heat stress. Paper presented at the Annual International Industrial Ergonomics and Safety Conference, Miami, FL: June 1987.
- 22) Rahimi, M., Hancock, P.A., & Chignell, M.H. Integrated software safety design for robotics. Paper presented at the Annual International Industrial Ergonomics and Safety Conference, Miami, FL: June 1987.
- 23) Hancock, P.A., & Chignell, M.H. Functional synchronization: A theory for human-computer interaction. Paper presented at the Second International Conference on Human-Computer Interaction, Hawaii: August 1987.
- 24) Hancock, P.A. Tasks as stresses: The case of vigilance. Paper presented at the Meeting of the International Society for Psychophysics, Stirling, Scotland: June 1988.
- 25) Hancock, P.A., Chignell, M.H., & Kerr, G. Defining task complexity and task difficulty. Proceedings of the XXIV International Congress of Psychology, August, Sydney, Australia: August 1988.
- 26) Hancock, P.A., Vercruyssen, M., & O'Donoghue, R. The effect of gender and time of day on the subjective workload response to performance of a constant task. Paper presented at the International Ergonomics Association, Sydney, Australia: August 1988.
- 27) Hancock, P.A., Mihaly, T., & Chignell, M.H. Stress and the efficiency of operator performance. Paper presented at the International Ergonomics Association, Sydney, Australia: August 1988.
- 28) Mihaly, T., Vercruyssen, M., & Hancock, P.A. Effects of exercise (arousal) and movement on speed of response. Paper presented at the International Ergonomics Association, Sydney, Australia: August 1988.
- 29) Vercruyssen, M., Hancock, P.A., & Mihaly, T. Behavioral toxicology: Effects of breathing 4% carbon dioxide on cognition. Paper presented at the International Ergonomics Association, Sydney, Australia: August 1988.
- 30) Vercruyssen, M., Cann, M.T., Birren, J.E., McDowd, J.M., & Hancock, P.A. Effects of aging, physical fitness, gender neural activation, exercise, and practice on CNS speed of functioning. Paper presented at the International Council for Physical Fitness Research, 1988 Osaka Symposium, Osaka, Japan: September 1988.
- 31) Hancock, P.A., Rahimi, M., Wulf, G., & Briggs, R. Analyzing the behavior of left-turning drivers. Paper presented at the Meeting of the International Technical Conference on Advanced Safety Vehicles, Gothenburg, Sweden: 1989.
- 32) Beringer, D.B., & Hancock, P.A. Exploring situational awareness: A review of the effects of stress on rectilinear normalization. Paper presented at the Fifth International Symposium on Aviation Psychology, Columbus, OH: May 1989.

- 33) Hancock, P.A., & M.A. Robinson. (1989). The effect of control order, feedback, practice, and input device on tracking performance and perceived workload. Paper presented at the Fifth International Symposium on Aviation Psychology, Columbus, OH: May 1989.
- 34) Hancock, P.A. Discourse between two towers: The application of stress and workload principles to the air traffic controller. Invited Plenary paper given at the NATO Advanced Study Institute on Automation and Systems Performance in Air Traffic Control, Maratea, Italy: June 1990.
- 35) Hancock, P.A., & Chignell, M.H. Defining collective action: From separation to symbiosis. Paper presented at the Second International Conference on Human Aspects of Advanced Manufacturing and Hybrid Automation, Honolulu, HI: August 1990.
- 36) Hancock, P.A. A theory of mental workload. Invited Paper presented at the 22nd International Congress of Applied Psychology, Kyoto, Japan: July 1990.
- 37) Karwowski, W., Hancock, P.A., Zurada, J.M., Ostaszewski, K. Risk of low back overexertion injury due to manual load lifting in view of the catastrophe theory. Paper presented at the Meeting of the International Ergonomics Association, Paris, France, July 1991.
- 38) Hancock, P.A., Caird, J.K., & Johnson, S.B. The left-turn. Paper presented at the Meeting of the International Ergonomics Association, Paris, France: July 1991.
- 39) Yang, T.A., Shekhar, S., & Hancock, P.A. Geographic database for IVHS Management. Paper presented at the Second International Conference on Applications of Advanced Technologies in Transportation Engineering, Minneapolis, MN: August 1991.
- 40) Coyle, M., Meir, S., Shekhar, S., Yang, A., Caird, J.K., Hancock, P.A., & Johnson, S. Exploring heads-up displays for driver workload management in intelligent vehicle highway systems. Paper presented at the Second International Conference on Applications of Advanced Technologies in Transportation Engineering, Minneapolis, MN: August 1991.
- 41) Hancock, P.A. Human factors and user interfaces. Tutorial paper presented at the Second International Conference on Applications of Advanced Technologies in Transportation Engineering, Minneapolis, MN: August 1991.
- 42) Hancock, P.A. Human factors concerns in IVHS systems. Paper presented at the Second International Conference on Applications of Advanced Technologies in Transportation Engineering, Minneapolis, MN: August 1991.
- 43) Hancock, P.A., & Stackhouse, S. Human factors and safety issues in IVHS. Paper presented at the 25th ISATA Silver Jubilee International Symposium on Automotive Technology and Automation, in the Dedicated Conference on Road Transport Informatics/Intelligent Vehicle Highway Systems, Florence, Italy: June 1992.
- 44) Hancock, P.A. Evaluating in-vehicle collision avoidance warning systems for IVHS. Paper presented at the NATO Advanced Study Institute on Concurrent Engineering Tools and Technologies for Mechanical System Design. Iowa City, IA: June 1992.
- 45) Hancock, P.A. Convergent evolution of hybrid human-machine systems. Panel Presentation component at the NATO Advanced Study Institute on Verification and Validation of Complex Human-Machine Systems. Vimiero, Portugal: July 1992.
- 46) Hancock, P.A. Emergent properties of complex systems and their influence on the role of verification and validation. Panel Presentation component at the NATO Advanced Study Institute on Verification and Validation of Complex Human-Machine Systems. Vimiero, Portugal: July 1992.
- 47) Chignell, M.H., & Hancock, P.A. Design orientation and ergonomics. Paper presented at the IEEE International Conference on Systems, Man, and Cybernetics. Chicago, IL: October 1992.
- 48) Hancock, P.A., & Smith, K. Situational awareness in air traffic control. Paper presented at the First International Conference on Situational Awareness in Complex Systems. Orlando, FL: February 1993
- 49) Hancock, P.A., & Williams, G. Effect of task load and task load increment on performance and workload. Paper presented at the Seventh International Symposium on Aviation Psychology, Columbus, OH: April. 1993.
- 50) Harris, W.C., Hancock, P.A., & Arthur, E. Effect of preview and fatigue on performance, automation and workload. Paper presented at the Seventh International Symposium on Aviation Psychology, Columbus, OH, April: 1993.
- 51) Caird, J.K., & Hancock, P.A. The application of ecological human factors principles to virtual environment interface design. Paper presented at the Seventh International Conference on Event Perception and Action. Vancouver, B.C. Canada: August. 1993.
- 52) Hancock, P.A. (Evaluation of standards for in-vehicle human machine interfaces. Paper presented as Panel Respondent at the 12th Triennial Congress of the International Ergonomics Association, Toronto, Canada: August 1994.
- 53) Hancock, P.A. The time of your life. Paper presented as Panel Respondent at the 12th Triennial Congress of the International Ergonomics Association, Toronto, Canada: August 1994.
- 54) Hancock, P.A., Scallen, S.F., & Duley, J.A. Interface design for adaptive automation technologies. Paper presented at the Third Meeting on Human-Electronic Team Member Interaction. Cambridge, England: September., 1994.

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- 55) Smith, K., & Hancock, P.A. The risk space representation of commercial airspace. Paper presented at the Eighth International Conference on Aviation Psychology, Columbus, OH: April 1995.
- 56) Scallen, S.F., Smith, K., Briggs, A., Knecht, E., & Hancock, P.A. Pilot decision making in the resolution of traffic control situations in the absence of air traffic control. Paper presented at the Eighth International Conference on Aviation Psychology, Columbus, OH: 1995
- 57) Hancock, P.A., Smith, K., Scallen, S.F., Briggs, A., & Knecht, W. Shared decision making in the national airspace system: Flight deck applications. Paper presented at the Eighth International Conference on Aviation Psychology, Columbus, OH: April 1995.
- 58) Smith, K., Coyle, M., Lonnon, D., McGrath, M., & Hancock, P.A. The University of Minnesota glass cockpit experimental platform. Paper presented at the Eighth International Conference on Aviation Psychology, Columbus, OH: April 1995.
- 59) Block, R.A., Zakay, D., & Hancock, P.A. Human duration judgment: Age and sex-related differences. Paper presented at the Meeting of the International Society for the Study of Time, Montreal, Canada: July 1995.
- 60) Hancock, P.A. On accidents. Keynote Address given at the 2nd International Conference on Driving and Fatigue, Freemantle, Australia: February 1996.
- 61) Hancock, P.A. Science and disaster. Invited Keynote Address at the Occupational Injury 96' Symposium, Sydney, Australia: February 1996.
- 62) Hancock, P.A. Stress and performance degradation. Invited Keynote Address at the Second Automation Technology and Human Performance Conference, Cocoa Beach, FL: March 1996.
- 63) Scallen, S., Smith, K., & Hancock, P.A. Evaluating pilot decision making in a semi-automated commercial cockpit: A multi-faceted approach. Paper presented at the Second Automation Technology and Human Performance Conference, Cocoa Beach, FL: March 1996.
- 64) Smith, K.C.S., Lewin, J.E.K., & Hancock, P.A. The invariant that drives conflict detection. Paper presented at the International Conference on Engineering Psychology and Ergonomics. Stratford, England: October 1996.
- 65) Klinge, J., Smith, K., Scallen, S., & Hancock, P.A. The University of Minnesota distributed air traffic information display simulator. Paper presented at the Ninth International Symposium on Aviation Psychology, Columbus, OH: April 1997.
- 66) Scallen, S., & Hancock, P.A. Pilot decision making in free flight: The impact of color-coded traffic displays. Paper presented at the Ninth International Symposium on Aviation Psychology, Columbus, OH: April 1997.
- 67) Knecht, W.R., & Hancock, P.A. Modeling airspace collision risk. Paper presented at the Ninth International Symposium on Aviation Psychology, Columbus, OH: April 1997.
- 68) Smith, K., & Hancock, P.A. All you need is heed. Paper presented at the Ninth International Symposium on Aviation Psychology, Columbus, OH: April 1997.
- 69) Hancock, P.A. Hours of boredom, moments of terror, - or months of monotony, milliseconds of mayhem. Paper presented at the Ninth International Symposium on Aviation Psychology, Columbus, OH: April 1997.
- 70) Scallen, S., & Hancock, P.A. Performance effects of adaptive automation and part-task automation in a high-fidelity multi-task environment. Paper presented at the Ninth International Symposium on Aviation Psychology, Columbus, OH: April 1997.
- 71) Desmond, P.A., Matthews, G., & Hancock, P.A. Dimensions of subjective fatigue states in driving. Paper presented at the 14th International Conference on Alcohol, Drugs, and Traffic Safety, Annecy, France: September 1997.
- 72) Desmond, P.A., Matthews, G., & Hancock, P.A. The effects of motivational and perceptual-based interventions on fatigue-related decrements in simulated driving performance. Paper presented at the Seventh International Conference on Vision in Vehicles. Marseilles, France: September 1997.
- 73) Manser, M.P., & Hancock, P.A. The influence of external visual stimuli and internal factors on the ability to accurately estimate imminent collision. Paper presented at the Seventh International Conference on Vision in Vehicles. Marseilles, France: September 1997.
- 74) Manser, M.P., Carmody, J., & Hancock, P.A. The role of environmental stimuli on driver's ability to maintain a constant velocity through restricted environments. Paper presented at the Seventh International Conference on Vision in Vehicles. Marseilles, France: September 1997.
- 75) Hancock, P.A. Research challenges in human-machine systems. Panel Paper presented at the International Symposium on Human-Machine Systems, in Honor of the Career of Professor Thomas B. Sheridan. MIT, December 1997.

- 76) Desmond, P.A., Matthews, G., & Hancock, P.A. Subjective symptoms of driving fatigue. Paper presented at the 24th International Congress of Applied Psychology, San Francisco, CA: August 1998.
- 77) deRidder, S.M., Scallen, S., & Hancock, P.A. Effects of roadway design on driver behavior: Minnesota case studies. Paper presented at the Tenth Internal Conference on Perception and Action. Edinburgh, Scotland: August 1999.
- 78) Manser, M.P., & Hancock, P.A. Approaching object occlusion as a salient source of time-to-contact information. Paper presented at the Eighth International Conference on Vision in Vehicles, Boston, MA: August 1999.
- 79) Manser, M.P., & Hancock, P.A. The ecological validity paradox in visual perception research. Paper presented at the Eighth International Conference on Vision in Vehicles, Boston, MA: August 1999.
- 80) Hancock, P.A., & deRidder, S. Driver performance in collision-likely conditions. Paper presented at the Eighth International Conference on Vision in Vehicles, Boston, MA: August 1999.
- 81) Hancock, P.A., de Ridder, S.N., Hammond, C., & Wade, M.G. Visualization, and accident research. Paper presented at the International Conference on Human Performance, Warner Springs, CA: March 2000.
- 82) Smith, K.C.S., & Hancock, P.A. Traffic maneuverability and cockpit display characteristics determine whether commercial airline pilots can maintain self-separation in realistic scenarios of en-route flight. Paper submitted for the 10th European Conference on Cognitive Ergonomics. Linköping, Sweden: August 2000.
- 83) Hancock, P.A. A stranger in paradigms. Keynote Address to the 14th Triennial Congress of the International Ergonomics Association and the 44th Annual Meeting of the Human Factors and Ergonomics Society, San Diego, CA: August 2000.
- 84) Chihak, B., Harder, K., Scallen, S.F., & Hancock, P.A. Educational outreach: What is human factors? Paper presented at the 14th Triennial Congress of the International Ergonomics Association and the 44th Annual Meeting of the Human Factors and Ergonomics Society, San Diego, CA: August 2000.
- 85) Hancock, P.A., Wilson, J., Sheridan, T., & Moray, N. Ergonomics and Human Factors differ either side of the Atlantic. Debate presented at the 14th Triennial Congress of the International Ergonomics Association and the 44th Annual Meeting of the Human Factors and Ergonomics Society, San Diego, CA: August 2000.
- 86) Hancock, P.A. Neville Peter Moray (Moratinis) – Scholar and Gentleman. A Tribute to Neville Moray presented at 14th Triennial Congress of the International Ergonomics Association and the 44th Annual Meeting of the Human Factors and Ergonomics Society, San Diego, CA: August 2000.
- 87) Hancock, P.A. What work may come. Paper presented at the 14th Triennial Congress of the International Ergonomics Association and the 44th Annual Meeting of the Human Factors and Ergonomics Society, San Diego, CA: August 2000.
- 88) de Ridder, S.N., & Hancock, P.A. Driver interaction in a shared simulated environment. Paper Presented at the DSC Driving Simulation Conference, Paris, France: September 2000.
- 89) Hancock, P.A. Motorcycles in Intelligent Transportation Systems. Paper Presented at the Third International Rider's Public Policy Conference of the federation Internationale de Motocyclisme, Pickerington, OH: April 2001.
- 90) Hancock, P.A. The ergonomics of torture. Paper presented at the International Studies Summer Institute, Orlando, FL: April 2001. (*Winner of the Best Paper Award*).
- 91) Hancock, P.A., Lesch, M., Simmons, L., & Mouloua, M. Distraction effects of phone use during a crucial driving maneuver. Paper presented at the *International Symposium on Human Factors in Driving Assessment, Training and Vehicle Design*. Aspen, Colorado: August 2001.
- 92) Jerome, C.J., Ganey, H.C.N., Commaford, P., Oakley, B., Mouloua, M., & Hancock, P.A. Evaluating the presence of in-vehicle devices on driver performance: Methodological issues. Paper presented at the *International Symposium on Human Factors in Driving Assessment, Training and Vehicle Design*. Aspen, Colorado: August 2001. (*Winner of the Best Student Paper Award*).
- 93) Edwards, M., Mouloua, M., Hancock, P.A., Abdel-Aty, M., & Rinalducci, E. The driver distraction protocol. Paper presented at the AIT/FIA Telematics General Assembly Meeting, Cologne, Germany: October. 2001.
- 94) Mouloua, M. Hancock, P.A., Edwards, M.L., Smither, J., Rinalducci, E., & Abdel-Aty, M. Effects of Telematics on Driver Distraction. Paper presented at the AAA Meeting in Barcelona, Spain: April. 2002.
- 95) Hancock, P.A. The globalization of time. Paper presented at the International Studies Summer Institute, Orlando, FL: May 2002. (*Winner of the Best Paper Award*).
- 96) Mouloua, M., Rinalducci, E., Hancock, P., E., & Helmick, J. *Driver Distraction and Workload: A Protocol Development and Experimental Analysis*. Paper Presented at the Annual Meeting of the AIT/FIA. Barcelona, Spain: July 2002.

- 97) Hancock, P.A., Lesch, M., Simmons, L., Smither, J., & Mouloua, M. (2002). In-vehicle phone use erodes the margin of driving safety especially for older drivers. Paper presented at the 2002 Congress on Gerontechnology, Miami Beach, FL: November.
- 98) Hancock, P.A., & Diaz, D.D. The interaction of sex and circadian rhythm on cognitive performance. Paper presented at the 5th International Lighting Research Symposium, Orlando, FL: November 2002.
- 99) Weaver, J.L., Bradley, K.A., & Hancock, P.A. Skills, rules, and knowledge: An experimental test of performance decrements as a function of stressor exposure. Paper presented at the 12th International Symposium on Aviation Psychology, Dayton, OH: April 2003.
- 100) Hancock, P.A., Brill, J.C., Mouloua, M., Kennedy, R.S., & Gilson, R.D. M-SWAP: On-line workload assessment in aviation. Paper presented at the 12th International Symposium on Aviation Psychology, Dayton, OH, April: 2003.
- 101) Hancock, P.A., Ganey, H.C.N., Mouloua, M., & Smither, J.A. Why is it so hard to say whether cell phone use in cars is safe or not? Paper presented at the Congress of the International Ergonomics Association, Seoul, Korea: August, 2003.
- 102) Ward, P., Hancock, P.A., Ganey, H.C.N., Mouloua, M., & Szalma, J.L. The task of modeling driver performance. Paper presented at the Congress of the International Ergonomics Association, Seoul, Korea: August 2003.
- 103) Hancock, P.A., Ganey, H.C.N., & Szalma, J.L. Stress and performance: Contrasting different descriptive relationships. Paper presented at the Congress of the International Ergonomics Association, Seoul, Korea: August 2003.
- 104) Mouloua, M., Rinalducci, E.J., Hancock, P.A., & Alberti, N. Effects of telematics on driver distraction: An experimental analysis. Paper presented at the 10th World Congress on Intelligent Transport Systems and Services, Madrid, Spain: 2005.
- 105) Stafford, S.C., Oron-Gilad, T., Szalma, J.L., Delosantos, K., & Hancock, P.A. Attitudes of police officers toward seat belt use while on duty. Paper presented at the 3rd International Conference in Traffic and Transport Psychology, Nottingham, England: 2004.
- 106) Koltko-Rivera, M.E., & Hancock, P.A. Psychological strategies for the defence against terrorism. Paper presented at the NATO RTO SCI Symposium on "Systems, Concepts and Integration (SCI) Methods and Technologies for Defense Against Terrorism," London, United Kingdom: October 2004.
- 107) Hancock, P.A., Szalma, J.L., & Oron-Gilad, T. Time, emotion, and the dynamics of information processing in individuals and the organizations they form. Paper presented at the Eighth International Symposium on Human Factors in Organizational Design and management. Maui, Hawaii: June 2005.
- 108) Oron-Gilad, T., Szalma, J.L., Thropp, J.E., & Hancock, P.A. (2005). Incorporating individual differences into the adaptive automation paradigm. Paper presented at the Eighth International Symposium on Human Factors in Organizational Design and management. Maui, Hawaii: June 2005.
- 109) Szalma, J.L., Oron-Gilad, T., & Hancock, P.A. (2005). Individual differences in workload, stress, and coping in police officers engaged in shooting tasks. Paper presented at the Eighth International Symposium on Human Factors in Organizational Design and management. Maui, Hawaii: June 2005.
- 110) Oron-Gilad, T., & Hancock, P.A. Road environment and driver fatigue. Paper presented at the 3rd International Driving Symposium on Human Factors in Driving Assessment, Training, and vehicle Design, Rockport, ME: June 2005.
- 111) Downs, J., Oron-Gilad, T., Hancock, P.A., & Gilson, R.D. Vibrotactile guidance cues for target identification. Paper presented at the 9th World Multi-Conference on Systemics, Cybernetics, and Informatics, Orlando, FL: July 2005.
- 112) Goldiez, B.F., Ahmad, A.M., Stanney, K.M., Hancock, P.A., & Dawson, J.W. Augmented Reality as a human computer interaction device for augmented cognition. Paper presented at the 11th International Conference on Human-Computer Interaction , Las Vegas, NV: July 2005.
- 113) Warm, J.S., Matthews, G., Tripp, L., & Hancock, P.A. Cerebral hemodynamics, and brain systems in vigilance. Paper presented at the 11th International Conference on Human-Computer Interaction , Las Vegas, NV: July 2005.
- 114) Hancock, P. A., Szalma, J.L., & Oron-Gilad, T. Operator performance under stress. Paper presented at the 11th International Conference on Human-Computer Interaction , Las Vegas, NV: July 2005.
- 115) Szalma, J.L., & Hancock, P.A. Fuzzy signal detection theory and human performance: A review of empirical evidence for model validity. Paper presented at the Annual Meeting of the European Chapter of the Human Factors and Ergonomics Society, Sheffield, England: November 2006.
- 116) Szalma, J.L., & Hancock, P.A. Understanding performance, workload, and stress: An individual differences perspective. Paper presented at the Annual Meeting of the European Chapter of the Human Factors and Ergonomics Society, Sheffield, England: November 2006.
- 117) Hancock, P.A. The future of human-machine symbiosis. Workshop presented to the Swedish Human Factors Network, Linköping, University, Linköping, Sweden: March 2007.

- 118) Block, R., Hancock, P.A., & Zakay, D. Cognitive Workload Affects Duration Judgments: Meta-Analytic Evidence. Paper presented at the Canadian Society for Brain, behavior and Cognitive Science, 17th Annual Meeting, Victoria, BC, Canada: June 2007.
- 119) Hancock, P.A. The battle for time in the brain: Evolutionary constraints on brain mechanisms of temporal experience. Paper presented at the 13th Conference of the International Society for the Study of Time, Asilomar, Monterey, CA: July, 2007.
- 120) Fatolitis, P.G., & Hancock, P.A. Augmented cognition and chronometric data: Physical vs. psychological time. Paper presented at the 4th International Conference on Augmented Cognition. Baltimore, MD: October 2007.
- 121) Merlo, J.L., & Hancock, P.A. Concurrent tactile and visual signalling. Paper presented at the Annual Meeting of the International Conference on Human Performance, Orlando, FL: March 2008.
- 122) Morgan, J.F., & Hancock, P.A. Workload transitions and hysteresis in driving. Paper presented at the Annual Meeting of the International Conference on Human Performance, Orlando, FL: March 2008.
- 123) Hancock, P.A., & Merlo, J.L. Cross-modal congruency benefits for tactile and visual signalling. Paper presented at the Annual Meeting of the Ergonomics Society, Nottingham, England: April 2008.
- 124) McGinn, G.H., Weaver, N.E., McDonald, D.M., van Driel, M., & Hancock, P.A. (2008). Strategic perspectives on developing language, regional and cultural capabilities. Paper presented at the NATO Conference on Adaptability in Coalition Teamwork. Copenhagen Denmark: April 2008
- 125) Van Driel, M., McDonald, D. Crepeau, L.J., Parks, K., Marcum, R., McGuire, W.G. Szalma, & Hancock, P.A. Cultural competencies for Global Collaboration. Paper presented at the XIXth International Congress of the International Association for Cross-Cultural Psychology, Bremen, Germany: July 2008.
- 126) Manser, M.P., & Hancock, P.A. Visual pattern and texture as visual cues for lane keeping ability. Paper presented at the 4th International Conference on Traffic and Transport Psychology, Washington, DC: August 2008.
- 127) Morgan, J., & Hancock, P.A. Visual occlusion and temporary work zone Incursions. Paper presented at the 4th International Conference on Traffic and Transport Psychology, Washington, DC.: August 2008.
- 128) Stearman, E.J., Morgan, J.F., Leonard, S.D., Hancock, P.A., & Garcia, A.J. Enhancement of signal light stimuli may improve responses. Paper presented at the 21st Annual Meeting of the International Society for Occupational Ergonomics & Safety. Dallas, TX: June 2009.
- 129) Hancock, P.A. On the nature of distraction: Driving beyond the biases of hindsight. Plenary Keynote Presentation at the First International Conference on Driver Distraction and Inattention. Gothenburg, Sweden: September 2009.
- 130) Hancock, P.A. Considering countermeasures to driver distraction. Panel Member Presentation at the First International Conference on Driver Distraction and Inattention. Gothenburg, Sweden: September 2009.
- 131) Whitmire, J.D., Oron-Gilad, T., Morgan, J.F., Kincaid, J.P. & Hancock, P.A. The effect of in-vehicle warning systems on speed compliance in work zones. European Conference on Human Centered Design for Intelligent Transport Systems, Berlin Germany: April 2010.
- 132) Merlo, J.L., & Hancock, P.A. *Pre-motor response time benefits in multi-modal displays*. 1st International Conference on Neuroergonomics at the Third International Conference on Applied Human Factors and Ergonomics, Miami: July 2010.
- 133) Kim, J., & Hancock, P.A. *Modeling performance under stress and fatigue: What can a cognitive modeling approach tell us?* 1st International Conference on Neuroergonomics at the Third International Conference on Applied Human Factors and Ergonomics, Miami: July 2010.
- 134) Hancock, P.A., Hancock, G.M., & Keellings, D.J. Assessing the future time of your life. *Fourteenth Triennial Conference of the International Society for the Study of Time*, Monte Verde, Costa Rica: July 2010. (Poster presented by Courtesy of Paul Harris following the accident of Professor Hancock).
- 135) Hancock, P.A. Stress and workload in aviation. Invited Plenary Address to the 5th International Summer School on Aviation Psychology, Graz, Austria: July 2011.
- 136) Hancock, P.A. Critical psychological states in aviation. Response Seminar presented at the 5th International Summer School on Aviation Psychology, Graz, Austria: July 2011.
- 137) Hancock, P.A., Billings, D.R., & Oleson, K.E. Influential factors in the development of human-robot team trust. Paper presented at the 5th International Summer School on Aviation Psychology, Graz, Austria: July 2011.
- 138) Sawyer, B.D., & Hancock, P.A. Assisted entry mitigates text messaging-based driving detriment. Paper Presented at the 18th World Congress on Ergonomics, Recife, Brazil: February 2012.

- 139) Sawyer, B.D., Hancock, P.A., Deaton, J., & Suedfeld, P. Finding the team for Mars: A psychological and human factors analysis of a Mars Desert Research Station crew. Paper Presented at the 18th World Congress on Ergonomics, Recife, Brazil: February 2012.
- 140) Oppold, P., Rupp, M., Mouloua, M., Hancock, P.A., & Martin, K. Design considerations to improve cognitive ergonomic issues of unmanned vehicle interfaces utilizing video game controllers. Paper Presented at the 18th World Congress on Ergonomics, Recife, Brazil: February 2012.
- 141) Hancock, G.M., Hancock, P.A., & Janelle, C.M. The impact of emotions and predominant emotion regulation technique on driving performance. Paper Presented at the 18th World Congress on Ergonomics, Recife, Brazil: February 2012.
- 142) Fok, A., Sawyer, B., Hancock, P.A., & Mouloua, M. An evaluation of keyboard interface types on driver distraction. Paper Presented at the 18th World Congress on Ergonomics, Recife, Brazil: February 2012.
- 143) Hancock, P.A. *On the symmetry of formal knowability in space-time*. Paper presented at the 15th Triennial Conference of the International Society for the Study of Time, Orthodox Academy of Crete, Kolymbari, Crete: July 2013.
- 144) Hancock, P.A. *Speculations on the Legal foundation of Richard III's Assumption of the throne*. Invited Paper presented at the Twentieth Anniversary Meeting of the Richard III Foundation. Dixie Grammar School, Market Bosworth, England: October 2013.
- 145) Hancock, P.A. *Driving research ahead: Four routes to the future*. Invited Plenary Keynote Presentation given at the European Chapter of the Human Factors and Ergonomics Society, Turin, Italy: October 2013.
- 146) Greenstein, S., Sawyer, B.D., Niederman, E., Oppold, P., & Hancock, P.A., (2013). Piloting with the PSUM Scale: Establishing Usability First. Poster presented at the International Academy, Research, and Industry Association International Conference on Advances in Vehicular Systems, Technologies and Applications, Nice, France.
- 147) Hancock, P.A. *The antecedents of situation awareness and its future*. Invited Keynote Presentation given at the IEEE International Multidisciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support, San Antonio, TX: March 2014.
- 148) Sanders, T., Schafer, K., Chen, J., & Hancock, P.A. The influence of modality and transparency on trust in human-robot interaction. Paper presented at the IEEE International Multidisciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support, San Antonio, TX: March 2014.
- 149) Ososky, S., Sanders, T., Jentsch, F., Hancock, P., & Chen, J. Y. Determinants of system transparency and its influence on trust in and reliance on unmanned robotic systems. Paper presented at the SPIE Defense+ Security (pp. 90840E-90840E) Conference International Society for Optics and Photonics, June 2014.
- 150) Hancock, P.A. Autobiomimesis: Toward a theory of interfaces. Invited Keynote Presentation given at the 6th International Conference on Automotive User Interfaces and Interactive Vehicular Applications, Seattle, WA: September 2014.
- 151) Schafer, K.E., Sanders, T., Kessler, T.T., Dunfee, M., Wild, T., & Hancock, P.A. Fidelity and validity in robotic simulation. Paper presented at the IEEE International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support, Orlando, FL: March 2015.
- 152) Hancock, P.A. Automobility: The coming use of fully automated on-road vehicles. Paper presented at the IEEE International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support. Orlando, FL: March 2015.
- 153) Zakay, D., Hancock, P.A., & Block, R.A. Physical load affects duration judgments: A Meta-Analytic review. Paper presented at the 15th European Conference on Psychology, Milan, Italy: July 2015.
- 154) Hancock, P.A., Sanders, T., & W. Volante, W. Quantitative Assessment of Qualitative Statements: What People Mean by Once in a Blue Moon. Paper presented at the 19th Meeting of the International Ergonomics Association (IEA), Melbourne, Australia: August 2015.
- 155) Sanders T., Oppold, P., Schaefer, E., & Hancock, P.A. Trust in human-robot interaction for assistive robotics. Paper presented at the 19th Meeting of the International Ergonomics Association (IEA), Melbourne, Australia: August 2015.
- 156) Sanders, T., Oppold, P., Schafer, K.E., Kessler, T., Chen, J., & Hancock. The influence of system transparency on user stress levels. Paper presented at the 19th Meeting of the International Ergonomics Association (IEA), Melbourne, Australia: August 2015.
- 157) Sawyer, B. D., Finomore V.S., Funke, G. Mancuson, V., Warm, J.S., & Hancock, P.A. Gauging end-user cybersecurity with an Email Testbed. Paper presented at the 19th Meeting of the International Ergonomics Association (IEA), Melbourne, Australia: August 2015
- 158) Sawyer, B. D., Calvo, A.A., Finomore, V.S. & Hancock, P.A. Serendipity in Simulation: Building Environmentally Valid Driving Distraction Evaluations of Google Glass™ and an Android™ Smartphone. Paper presented at the 19th Meeting of the International Ergonomics Association (IEA), Melbourne, Australia: August 2015

- 159) Hancock, P.A. Embracing complexity: A Wilsonian approach to highly interconnected human-machine systems. Paper presented at the 19th Meeting of the International Ergonomics Association (IEA), Melbourne, Australia: August 2015
- 160) Hancock, P.A. Pleasure: Goal or by-product of optimal design. Paper presented at the 19th Meeting of the International Ergonomics Association (IEA), Melbourne, Australia: August 2015.
- 161) Hancock, P.A. The mind and the brain of the driver and the vehicle. Paper presented at the 7th Biennial World Research Congress on the Relationship between Vision and the Safe Operation of a Motorized Vehicle (The Eye, the Brain, and the Auto), Dearborn, MI: September 2015.
- 162) Hancock, P.A. Shakespeare, Freud, and a flock of birds: The future of dynamic simulation. Paper presented at the International Conference on Road Safety and Simulation, Orlando, FL: October 2015.
- 163) Hancock, P.A., & Hancock, G.M. Time's urgent delusion: Implications of the phenomenological super-symmetry of sentence in space-time. Paper presented at the Triennial Conference of the International Society for the Study of Time, Edinburgh, Scotland: June 2016.
- 164) Hancock, P.A. Motorcycle conspicuity and the potential for warning of impending collision. Paper presented at the 7th International Conference on Applied Human Factors and Ergonomics. Orlando: July 2016.
- 165) Yerdon, V., Marlowe, T., Volante, W., Li, S., & Hancock, P.A. Investigating cross-cultural differences in trust levels of automotive automation. Paper presented at the 7th International Conference on Applied Human Factors and Ergonomics. Orlando: July 2016.
- 166) Kessler, T., Larios, C., Yerdon, V., Walker, T., & Hancock, P.A. A comparison of trust measures in human robot interaction scenarios. Paper presented at the 7th International Conference on Applied Human Factors and Ergonomics. Orlando: July 2016.
- 167) MacArthur, K., Stowers, K., & Hancock, P.A. Human-robot interaction: Proximity and speed: Slowly back away from the robot! Paper presented at the 7th International Conference on Applied Human Factors and Ergonomics. Orlando: July 2016.
- 168) Li, S., Zhang, W., & Hancock, P.A. Neural feedback of decision-making for emotive drivers. Paper presented at the 7th International Conference on Applied Human Factors and Ergonomics. Orlando: July 2016.
- 169) Wright, J.L., Chen, J.Y.C., Barnes, M.J., & Hancock, P.A. The effect of agent reasoning transparency on automation bias: An analysis of response performance. Paper presented at the Human-Computer Interaction International (HCII) Meeting, Toronto, Canada: July 2016.
- 170) Hancock, P.A. Neuroversion and the seeds of civicide. Paper presented at the First International Neuroergonomics Conference, Paris, France: October 2016.
- 171) Hancock, P.A., Stowers, K., & Kessler, T.T. Can we trust autonomous systems? Paper presented at the First International Neuroergonomics Conference, Paris, France: October 2016.
- 172) Aljuaid, A., Karwowski, W., Xanthopoulos, P., & Hancock, P.A. EEG activity associated with manual lifting tasks: A neuroergonomic study. Paper presented at the First International Neuroergonomics Conference, Paris, France: October 2016.
- 173) Sawyer, B., Karwowski, W., & Hancock, P.A. Applied potential: Neurergonomic error detection in single electrode electroencephalography. Paper presented at the First International Neuroergonomics Conference, Paris, France: October 2016.
- 174) Hancock, P.A., Kaplan, A.D., Stowers, K., Kessler, T., Sanders, T., Volante, W., MacArthur, K.M., & Brill, J.C. *Trust in automation and autonomy: A growing challenge for aviation operations*. Presented at International Symposium on Aviation Psychology 19th Annual Meeting, Dayton, Ohio: May 2017.
- 175) Hancock, P.A. *Whither workload? Mapping a path for its future development*. Paper presented at the International Conference on H-Workload, Dublin, Ireland: June 2017.
- 176) Hancock, P.A. *The future of workload*. Invited Panel Presentation at the International Conference on H-Workload, Dublin, Ireland: June 2017.
- 177) Lau, M., Volante, W., & Hancock, P.A. *Quantifying qualitative probabilities: A cross-cultural examination*. Paper presented at the 10th Conference of the Section Work, Organizational and Business Psychology of the German Psychological Society, Dresden, Germany: September 2017.
- 178) Hancock, P.A. *Automation and autonomy on the ground and in the air*. Paper presented (Via Skype) at the Thirteenth Ergonomics Society of South Africa Conference (ESSA2017), Third African Symposium on Human Factors and Aviation Safety (ASHFAS2017), First Ergo-Africa Conference (ErgoAfrica2017), Johannesburg, South Africa: September 2017.
- 179) Hancock, P.A. *Designed elimination of transportation accidents (DELTA)*. Paper presented at the Human Factors in Future Transportation Meeting, (CIEHF), Birmingham, UK, June 2018.

- 180) Sawyer, B.D., Karwowski, W., Xanthopoulos P., & Hancock, P.A. A comparison of ERP data cleaning strategies for neuroergonomic error detection. Paper presented at the 2nd International Neuroergonomics Conference, Philadelphia, June 2018.
- 181) Kessler, T.T., Kaplan, A.D., Brill, J.C., & Hancock, P.A. Optimizing trust in autonomous systems: Insights from human-human trust relationships. Paper presented at the Triennial Meeting of the International Ergonomics Association (IEA), Florence, Italy, August 2018.
- 182) Hancock, P.A., & Mouloua, M.. The future of Ergonomics: What are our goals in the larger context? Paper presented at the Triennial Meeting of the International Ergonomics Association (IEA), Florence, Italy, August 2018.
- 183) Hancock, P.A. Conspicuity and accidents: Data vs. resource limited differentiations. Paper presented at the Triennial Meeting of the International Ergonomics Association (IEA), Florence, Italy, August 2018.
- 184) Hancock, P.A. Science in court. Paper presented at the Triennial Meeting of the International Ergonomics Association (IEA), Florence, Italy, August 2018.
- 185) Hancock, P.A., Volante, W., Lau, M., Kuraoka, H., & Li, S. Quantifying qualitative language: A cross-cultural examination. Paper presented at the Triennial Meeting of the International Ergonomics Association (IEA), Florence, Italy, August 2018.
- 186) Volante, W., Sosna, J., Garcia, M., & Hancock, P.A. Don't rock the boat: The role of social conformity in human-robot trust. Paper presented at the Triennial Meeting of the International Ergonomics Association (IEA), Florence, Italy, August 2018.
- 187) Hancock, P.A. Memories of the contributions of Neville Moray. Paper presented at the Triennial Meeting of the International Ergonomics Association (IEA), Florence, Italy, August 2018.
- 188) Kaplan, A.D., Cruitt, J., Hancock, G.M., & Hancock, P.A. Time perception as a measure of psychological flow: A meta-analysis. Paper presented at the Triennial Meeting of the International Ergonomics Association (IEA), Florence, Italy, August 2018.
- 189) Cruitt, J., Clapp, S., Hancock, P.A., & Kochan, J. Perspectives Toward Training Resiliency during Unexpected Events in Air Carrier Pilot Operations. Paper presented at the International Conference on Aviation Psychology, Dayton, May 2019.
- 190) Salmon, P.M., Stanton, N., Read, G.J.M., Walker, G.H., & Hancock, P.A. From systems ergonomics to global ergonomics: The world as a socio-ecological-technical system. Keynote Presentation given at the Annual Meeting of the Chartered Institute for Ergonomics and Human Factors, Stratford-on-Avon, England, April 2019.
- 191) Hancock, P.A. In the future, will there be humans to factor in? Invited Plenary Keynote presentation to the 10th International Conference on Applied Human Factors and Ergonomics, Washington, DC., July 2019.
- 192) Ball, R.V., Miller, D.B., Wallace, S., Macias, K.C., Ibrahim, M., Gonzaga, E.R., Karasik, O., Rohlsen-Neal, D.R., Ross, E., Hughes, A.M., Hancock, P.A., & Sawyer, B.D. Physicians and the patience: Redefining healthcare relationships through readability optimization. Paper presented at the HFES International Symposium on Human Factors and Ergonomics in Health Care, Virtual, April 2021.
- 193) Hancock, P.A. Trust and the future of autonomous systems. Donald Broadbent Lecture to the Chartered Institute for Ergonomics and Human Factors (CIEHF), (Virtual), April 2021.
- 194) Diaz, Y., Cruitt, J., Alexandra, K., Kochan, J., Gruber, M., Pruchnicki, S., and Hancock, P.A. Training resilience in aviation systems: A literature review. Paper presented at the International Symposium on Aviation Psychology, Virtual, May 2021.
- 195) Hancock, G.M., Gruber, M., Bui, U., Blay, J., Apatiga, Y., Schmitz, C., & Hancock, P.A. (2021). A synthesis of subjective scales which assess worker fatigue: Building a simple, reliable, and effective evaluative instrument. Paper presented at the Triennial Meeting of the International Ergonomics Association, (Virtual), June 2021.
- 196) Salmon, P., Read, G., McLean, S., Stanton, N., Baber, C., Thompson, J., Hancock, P.A., & Carden, T. (2021). Managing the risks of artificial general intelligence with Human Factors and Ergonomics: Prometheus and Ava case studies. Paper presented at the Triennial Meeting of the International Ergonomics Association, (Virtual), June 2021.
- 197) Hancock, P.A. (2021). Trust in automation and autonomy. Keynote Address presented at the Triennial Meeting of the International Ergonomics Association, (Virtual), June 2021.
- 198) Hancock, P.A. (2021). On the designing of future work. Paper presented at the Triennial Meeting of the International Ergonomics Association, (Virtual), June 2021.
- 199) Ismail, L.E., Karwowski, W., Farahani, F., & Hancock, P.A. Changes in the function brain networks induced by isometric force exertions: A graph theoretical approach. Paper Presentation at the 2021 Neuroergonomics Conference, Munich, Germany, September 2021.
- 200) McLean, S., Read, G.J.M., Thompson, J., Hancock, P.A., & Salmon, P.M. Managerial artificial intelligence (MAGI) for football: What could go wrong? Paper presented at the World Congress on Science and Soccer, Coimbra, Portugal, June 2022.

National Academic Meetings

- 1) Milner, E.K., & Hancock, P.A. Evaluation of the affective domain in relation to selected physical and social concepts of high school students attending the Florida Environmental Studies Program. Paper presented at the 96th Annual, National and Midwest Convention of AAHPERD, Detroit, MI: April 1980.
- 2) Hancock, P.A., & Newell, K.M. A space-time description of the speed accuracy trade-off. Paper presented at the Annual Conference of NASPSPA, Boulder, CO: May 1980.
- 3) Hancock, P.A. A rationale for cardio-vascular endurance training in the racquet sport athlete. Paper presented to the International Symposium on the Effective Teaching of Racquet Sports, Champaign, IL: June 1980.
- 4) Hancock, P.A. Mental performance impairment in heat stress. Paper presented to the Annual Meeting of the Human Factors Society, Los Angeles, CA: October 1980.
- 5) Hancock, P.A., & Milner, E.K. Underwater manual dexterity in the open ocean. Paper presented at the 97th AAHPERD Research Consortium Annual Meeting, Boston, MA: April 1981.
- 6) Hancock, P.A. Apraxic syndromes: Their implications for a theory of action. Paper presented at the Annual Conference of NASPSPA, Asilomar, Monterey, CA: June 1981.
- 7) Hancock, P.A. Body temperature regulation during racquet sport competition. Paper presented to the International Symposium on the Effective Teaching of Racquet Sports, Champaign, IL: June 1981.
- 8) Hancock, P.A. The heat stress limitations of mental, psychomotor, and dual task performance. Paper presented at the 21st Annual BROUHA Work Physiology Symposium, Cincinnati, OH: September 1981.
- 9) Hancock, P.A. The limitation of human performance in extreme heat conditions. Paper presented at the 25th Annual Meeting of the Human Factors Society, Rochester, NY: October 1981.
- 10) Newell, K.M., & Hancock, P.A. Kinematic and kinetic parameters as information feedback in the acquisition of skill. Paper presented at the 25th Annual Meeting of the Human Factors Society, Rochester, NY: October 1981.
- 11) Hancock, P.A. A space-time perspective of speed-accuracy functions. Paper presented in the Symposium, Kinematics and Kinetics of Response Variability at the Annual Conference of NASPSPA. University of Maryland, College Park, MD: May 29-June 1, 1982.
- 12) Hancock, P.A. Temperature manipulation and human performance efficiency. Paper presented at the 22nd Annual BROUHA Work Physiology Symposium, Texas Technical University, Lubbock, TX: September 1982.
- 13) Hancock, P.A. Mitigation of performance decrement in transient extreme heat. Paper presented at the 26th Annual Meeting of the Human Factors Society, Seattle, WA: October 1982.
- 14) Hancock, P.A., & Milner, E.K. Manual dexterity task performance efficiency in the open ocean underwater environment. Paper presented at the 26th Annual Meeting of the Human Society, Seattle, WA: October 1982.
- 15) Newell, K.M., & Hancock, P.A. Space-time movement accuracy. Paper presented at the Annual Meeting of the Psychonomic Society, Minneapolis, MN: November 1982.
- 16) Milner, E.K., & Hancock, P.A. Effects of depth and environment of the capability of the submerged operator. Paper presented at the Annual Meeting of AAHPERD, Minneapolis, MN: April 1983.
- 17) Hancock, P.A. An endogenous metric for the control of perception of brief temporal intervals. Paper presented to the New York Academy of Sciences, New York, NY: May 1983.
- 18) Hancock, P.A. Variations in environmental temperature and monitoring task performance capability. A review. Paper presented at the Annual Meeting of the American Industrial Hygiene Association, Philadelphia, PA: May 1983.
- 19) Dirkin, G.R., & Hancock, P.A. Attentional narrowing under stress. Paper presented at the Annual Meeting of NASPSPA, Michigan State University, East Lansing, MI: June 1983.
- 20) Newell, K.M., & Hancock, P.A. Space-time and motion study. Paper presented at the 27th Annual Meeting of the Human Factors Society, Norfolk, VA: October 1983.
- 21) Catalano, J.F., & Hancock, P.A. The human factors of sport: A review. Paper presented at the 27th Annual Meeting of the Human Factors Society, Norfolk, VA: October 1983.
- 22) Hancock, P.A., & Robertson, M.M. Deep auditory meatus temperature: A biofeedback indicator for the assessment of human mental workload. Paper presented at the Ninth Annual Convention of the Biofeedback Society of California, Santa Barbara, CA: November 1983.

- 23) Hancock, P.A. Spatio-temporal perspectives on movement accuracy. Paper presented at the Ninth Interdisciplinary Conference, Jackson, WY: January 1984.
- 24) Hancock, P.A., & Pierce, J.O. Toward attentional theory of performance under stress: Evidence from studies of vigilance in heat and cold. Paper presented at the First Mid-Central Ergonomics/Human Factors Conference, Cincinnati, OH: April 1984.
- 25) Hancock, P.A., & Pierce, J.O. Thermal performance zones. Paper presented at the 55th Annual Meeting of the Aerospace Medical Association, San Diego, CA: May 1984.
- 26) Dirkin, G.R., & Hancock, P.A. Attentional narrowing to the visual periphery under temporal and acoustic stress. Paper presented at the 55th Annual Meeting of the Aerospace Medical Association, San Diego, CA: May 1984.
- 27) Hancock, P.A., & Pierce, J.O. The combinational effects of noise and heat on performance. Paper presented at the American Industrial Hygiene Association, Detroit, MI: May 1984.
- 28) Hancock, P.A. Toward a theory of stress and attention. Paper presented at the Seventh Annual Symposium of the Los Angeles Chapter of the Human Factors Society, Burbank, CA: June 1984.
- 29) Hancock, P.A., Carlton, L.G. & Newell, K.M. An analysis of kinetic response variability. Paper presented at the Twentieth Annual Conference on Manual Control, San Jose, CA: June 1984.
- 30) Hancock, P.A. Body temperature and information processing capability. Paper presented at the 28th Annual Meeting of the Human Factor Society, San Antonio, TX: October 1984.
- 31) Hurt, H.H. Jr., Thom, D.R., & Hancock, P.A. The effect of hand position on motorcycle brake response time. Paper presented at the 28th Annual Meeting of the Human Factors Society, San Antonio, TX: October 1984.
- 32) Hurt, H.H. Jr., Hancock, P.A., & Thom, D.R. Motorcycle-automobile collision prevention through increased motorcyclist frontal conspicuity. Paper presented at the 28th Annual Meeting of the Human Factors Society, San Antonio, TX: October 1984.
- 33) Hancock, P.A. Stress effects on aircrew: Indications for design and work-practice change. Paper presented at the International Aircraft Cabin Safety Symposium, Palm Springs, CA: February 1985.
- 34) Hancock, P.A., Pierce, J.O., & Chignell, M.H. Maximal adaptability and the setting of stress tolerance standards. Paper presented at the Annual Meeting of the American Industrial Hygiene Association, Las Vegas, NV: May 1985.
- 35) Hancock, P.A., & Chignell, M.H. The principle of maximal adaptability in setting stress tolerance standards. Paper presented at the Second Annual Mid-West Ergonomics/Human Factors Meeting, West Lafayette, IN: June 1985.
- 36) Chignell, M.H., & Hancock, P.A. Knowledge-based load leveling and task allocation in human-machine systems. Paper presented at the Twenty-first Annual Conference on Manual Control, Columbus, OH: June 1985.
- 37) Hancock, P.A., & Chignell, M.H. The effects of stress on attentional resources. Paper presented at the Twenty-first Annual Conference on Manual Control, Columbus, OH: June 1985.
- 38) Chignell, M.H., & Hancock, P.A. Strategies for real-time task allocation in human-machine systems. Paper presented at the 8th Annual Meeting of the Southern California Chapter of the Human Factors Society, Los Angeles, CA: June 1985.
- 39) Hancock, P.A., & Chignell, M.H. A theory of stress and attention. Paper presented at the Symposium on Applications of Automatic and Controlled Information Processing Theory to Engineering Psychology, Division 21 Engineering Psychology American Psychological Association Convention, Los Angeles, CA: August 1985.
- 40) Thom, D.R., Arao, H.G., & Hancock, P.A. Hand position and motorcycle front brake response time. Paper presented at the 29th Annual Meeting of the Human Factors Society, Baltimore, MD: October 1985.
- 41) Hancock, P.A., Stout, J.H., Medieros, B., Rosenberg, S., Kofler, R. Development of workstation design criteria for current office environments. Paper presented at the 29th Annual Meeting of the Human Factors Society, Baltimore, MD: October 1985.
- 42) Hancock, P.A., & Behnke, A.A. Zonal differentiation of performance under heat stress. Paper presented at the 29th Annual Meeting of the Human Factors Society, Baltimore, MD: October 1985.
- 43) Hancock, P.A., Chignell, M.H., & Loewenthal, A. An adaptive human-machine system. Paper presented at the International Meeting of the IEEE on Systems, Man and Cybernetics, Tucson, AZ: November 1985.
- 44) Chignell, M.H., Loewenthal, A., & Hancock, P.A. Intelligence interface design. Paper presented at the International Meeting of the IEEE on Systems, Man and Cybernetics, Tucson, AZ: November 1985.
- 45) Loewenthal, A., Chignell, M.H., & Hancock, P.A. Use of mental workload measures in interface design. Paper presented at the International Meeting of the IEEE on Systems, Man and Cybernetics, Tucson, AZ: November 1985.

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- 46) Hancock, P.A. The impact of training on mental workload. Paper presented as part of Workshop on Training and Workload to the Eighth Annual Carmel Conference, Carmel, CA: January 1986.
- 47) Hancock, P.A. Human factors issues in shiftwork and circadian rhythms. Paper presented at the Third Annual Symposium on Aircraft Cabin Safety, Anaheim, CA: January 1986.
- 48) Hancock, P.A., & Chignell, M.H. Input information requirements for an adaptive human-machine system. Paper presented at the Tenth Symposium on Psychology in the Department of Defense, Colorado Springs, CO: April 1986.
- 49) Chignell, M.H., & Hancock, P.A. Horn clause representation in human-machine systems with adaptive control. Paper presented at the Annual International Industrial Ergonomics and Safety Conference, Louisville, KY: June 1986.
- 50) Hancock, P.A. A triumvirate description and theory of the action of stress upon human performance. Substituted paper presented at the Third Mid-Central Ergonomics/Human Factors Conference, Oxford, OH: June 1986.
- 51) Hancock, P.A. An overview of ergonomics. Paper presented at the Third Mid-Central Ergonomics/Human Factors Conference, Oxford, OH: June 1986.
- 52) Chignell, M.H., & Hancock, P.A. Integration of the cognitive and physical aspects of the human-machine interface. Paper presented at the Annual Meeting of the Human Factors Society, Dayton, OH: September 1986.
- 53) Hancock, P.A. The role of communication in organizational design and management. Section presented at the Workshop on Organizational Design and Management (Chair: G. Galloway), Annual Meeting of the Human Factors Society, Dayton, OH: September 1986.
- 54) Chignell, M.H., Hancock, P.A., Smith, P.J., & Shute, S.J. Information retrieval: An intelligent interface perspective. Paper presented at the International Meeting of the IEEE Conference on Systems, Man and Cybernetics, Atlanta, GA: October 1986.
- 55) Hancock, P.A., & Chignell, M.H. Toward a theory of mental workload: Stress and adaptability in human-machine systems. Paper presented at the International Meeting of the IEEE Conference on Systems, Man and Cybernetics, Atlanta, GA: October 1986.
- 56) Hancock, P.A. The role of temporal factors in workload prediction. Paper presented at the International Meeting of the IEEE Conference on Systems, Man and Cybernetics, Atlanta, GA: October 1986.
- 57) Hancock, P.A. Stress, and work efficiency. Paper presented at the Annual Meeting of the Los Angeles Section of the Human Factors Society, Los Angeles, CA: December 1986.
- 58) Hancock P.A. The integration of Human Factors, Ergonomics and Industrial Hygiene. Paper presented at the Yuma Pacific South-West Section Meeting of the American Industrial Hygiene Association, Oxnard, CA: February 1987.
- 59) Hancock, P.A., & Pierce, J.O. Understanding and coping with heat stress limitations in the use of semi-permeable and impermeable garments. Paper presented at the Annual Meeting of the American Industrial Hygiene Association, Montreal, Canada: May 1987.
- 60) Hancock, P.A. The effect of time of day upon the subjective estimate of workload during the performance of a simple task. Paper presented at the Fourth Mid-Central Ergonomics/Human Factors Conference, Champaign, IL: July 1987.
- 61) Hancock, P.A. Management factors in fitness for duty. Paper presented at the 1987 Meeting of the Society for Automotive Engineers, Aerospace Technology Conference, Long Beach, CA: October 1987.
- 62) Hancock, P.A. Gender differences in reactions to occupational stress in the working environment. Paper presented at the Yuma Pacific South-West Section Meeting of the American Industrial Hygiene Association, San Diego, CA: February 1988.
- 63) Hancock, P.A. Job-related stressors, adaptive systems, and intelligent interfaces. Paper presented at the Conference on Facilities 2000: Education and Research Imperatives for Workplaces of the Twenty-First Century. Grand Valley State University, Grand Rapids MI: April 1988.
- 64) Hancock, P.A., Pierce, J.O., & Vercruyssen, M. Heat stress and occupational accidents: An evaluative synthesis of experimental evidence. Paper presented at the Annual Meeting of the American Industrial Hygiene Association, San Francisco, CA: May 1988.
- 65) Vercruyssen, M., Hancock, P.A., Yncino, V., McDowd, J.M., & Birren, J.E. Human attention: Implications for health and safety. Paper presented at the Annual Meeting of the American Industrial Hygiene Association, San Francisco, CA: May 1988.
- 66) Vercruyssen, M., Sever, S., & Hancock, P. A. Effects of breathing elevated levels of carbon dioxide on CNS function. Paper presented at the Annual Meeting of the American Industrial Hygiene Association, San Francisco, CA: May 1988.
- 67) Hancock, P.A. Stress and performance efficiency. Paper presented at the Annual Meeting of NASPSPA, Knoxville, TN: June 1988.

- 68) Mihaly, T., Hancock, P.A., Vercruyssen, M., & Rahimi, M. Time estimation performance before, during and after physical activity. Paper presented at the 32nd Annual Meeting of the Human Factors Society, Anaheim, CA: October 1988.
- 69) Vercruyssen, M., Cann, M.T., McDowd, J.M., Birren, J.E., Carlton, B.L., Burton, J., & Hancock, P.A. Effects of age, gender, activation, stimulus degradation and practice on attention and visual choice reaction time. Paper presented at the 32nd Annual Meeting of the Human Factors Society, Anaheim, CA: October 1988.
- 70) Hancock, P.A., Rodenburg, G.J., Mathews, W.D., & Vercruyssen, M. Estimation of duration and mental workload at differing times of day by males and females. Paper presented at the 32nd Annual Meeting of the Human Factors Society, Anaheim, CA: October 1988.
- 71) Gluckman, J.P., Warm, J.S., Dember, W.N., Thiemann, J.A., & Hancock, P.A. Subjective workload in simultaneous and successive vigilance tasks. Paper presented at the Annual Meeting of the Psychonomic Society, Chicago, IL: November 1988.
- 72) Hancock, P.A., Diggles, V.A., & Wulf, G. Physical activity in context: Industrial and military perspectives. Paper presented at the Big Ten CIC Leadership Symposium, Chicago, IL: December 1988.
- 73) Hancock, P.A., & Pierce, J.O. Integrating signal detection theory and catastrophe theory as an approach to the quantification of human error. Paper presented at the Annual Meeting of the American Industrial Hygiene Association, St. Louis, MO: May 1989.
- 74) Hancock, P.A., & Pierce, J.O. Toward a theory of tasks and displays. Paper presented at the Conference on Work with Displays Units II, Montreal, Canada: May 1989.
- 75) Hancock, P.A., & Salmon, P. Music of the spheres: Applications of MIDI technology to the musical display of information. Paper presented at the Conference on Work with Displays Units II, Montreal, Canada: May 1989.
- 76) Becker, A.B., Gluckman, J.P., Warm, J.S., Dember, W.N., & Hancock, P.A. Subjective workload in dual task monitoring. Paper presented at the 33rd Annual Meeting of the Human Factors Society, Denver, CO: October 1989.
- 77) Wulf, G., Hancock, P.A., & Rahimi, M. Some causes of automobile-motorcycle collisions. Paper presented at the 33rd Annual Meeting of the Human Factors Society, Denver, CO: October 1989.
- 78) Hancock, P.A., Wulf, G., Thom, D.R., & Fassnacht, P. Contrasting driver behavior during turns and straight driving. Paper presented at the 33rd Annual Meeting of the Human Factors Society, Denver, CO: October 1989.
- 79) Hancock, P.A., Robinson, M.A., Chu, A.L., Hansen, D.R., Vercruyssen, M., Grose, E., & Fisk, A.D. The effects of practice on tracking and subjective workload. Paper presented at the 33rd Annual Meeting of the Human Factors Society, Denver, CO: October 1989.
- 80) Vercruyssen, M., Cann, M.T., & Hancock, P.A. Gender differences in posture effects on cognition. Paper presented at the 33rd Annual Meeting of the Human Factors Society, Denver, CO: October 1989.
- 81) Hancock, P.A., Chignell, M.H., Vercruyssen, M., & Denhoff, M. Experimental evaluations of a model of mental workload. Paper presented at the 33rd Annual Meeting of the Human Factors Society, Denver, CO: October 1989.
- 82) Cann, M.T., Vercruyssen, M., & Hancock, P.A. Gender and task loading effects on cognition. Paper presented at the Annual Meeting of the Los Angeles Section of the Human Factors Society, Los Angeles, CA: November 1989.
- 83) Chignell, M.H., & Hancock, P.A. The operator as a purposive system: A new approach to human factors. Paper presented at the Annual IEEE Systems, Man and Cybernetics Meeting, Boston, MA: November 1989.
- 84) Hurt, H.H., Jr. (Presented by Hancock, P.A.). Measuring the conspicuity of motorcycles through the eyes of other drivers. Paper presented at the 69th Annual Meeting of the Transportation Research Board, Washington, D.C.: January 1990.
- 85) Hancock, P.A. Human factors issues in intelligent highway vehicle systems as applied to older drivers. Invited paper given at the Government/Industry Meeting of the Society of Automotive Engineers, Washington, D.C.: May 1990.
- 86) White, H.G., Hancock, P.A., & Caird, J.K. The mistakes of older drivers. Paper presented at the Fifth Mid-Central Ergonomics/ Human Factors Conference. Dayton, OH: May 1990.
- 87) Caird, J.K., Hancock, P.A., Johnson, S., & White, H.G. Construction of a facility for multiple vehicle simulation. Paper presented at the Fifth Mid-Central Ergonomics/ Human Factors Conference. Dayton, OH: May 1990.
- 88) Simons, K.G., Gluckman, J.P., Warm, J.S., Dember, W.N., Hancock, P.A., & Jackson, J.L. The rate of gain of workload in sustained attention: Methodological and task factors. Paper presented at the Fifth Mid-Central Ergonomics/ Human Factors Conference. Dayton, OH: May 1990.
- 89) Hancock, P.A., & Pierce, J.O. A lawful description relating heat stress exposure to worker performance degradation. Paper presented at the 48th Meeting of the American Industrial Hygiene Conference, Orlando, FL: May 1990.

- 90) Hancock, P.A. Perception/action and the control of self-motion in vehicles. Paper presented at the Workshop, The Control of Self-Motion: Methodological Issues. Wright State University, Dayton, OH: August 1990.
- 91) Hancock, P.A., Caird, J.K., & Parasuraman, R. Predicting the effects of interactive stresses on operator performance during long-duration space operations. Paper presented at the AIAA Conference on Space Programs and Technologies, Huntsville, AL: September 1990.
- 92) Hancock, P.A., Chignell, M.H., & Carter, J.L. Evaluating the effects of adaptation. Paper presented at the 34th Annual Meeting of the Human Factors Society, Orlando, FL: October 1990.
- 93) Cann, M.T., Vercruyssen, M., & Hancock, P.A. Age, and the elderly internal clock: Further evidence for a fundamentally slowed CNS. Paper presented at the 34th Annual Meeting of the Human Factors Society, Orlando, FL: October 1990.
- 94) Fozard, J.L., Vercruyssen, M., Reynolds, S.L., & Hancock, P.A. Longitudinal analysis of age-related slowing: BLSA reaction time data. Paper presented at the 34th Annual Meeting of the Human Factors Society, Orlando, FL: October 1990.
- 95) Hancock, P.A. Goals, tasks, and actions: Strategies, choices, and constraints in the behavior of human operators. Paper presented at the 34th Annual Meeting of the Human Factors Society, Orlando, FL: October 1990.
- 96) Hancock, P.A., Chignell, M.H., & Vercruyssen, M. Predicting the effects of stress on performance. Paper presented at the 34th Annual Meeting of the Human Factors Society, Orlando, FL: October 1990.
- 97) Caird, J.K., Hancock, P.A., Wade, M.G., & Vercruyssen, M. Workload and strategic adaptation under transformations of visual-coordinative mappings. Paper presented at the 34th Annual Meeting of the Human Factors Society, Orlando, FL: October 1990.
- 98) Hancock P.A. Uses of simulation in understanding human performance in the control of complex vehicles. Paper presented at the California DMV/TRB Conference on Driver Competency. San Diego, CA: October 1990.
- 99) Hancock, P.A. On operator strategic behavior. Paper presented at the Sixth International Symposium on Aviation Psychology, Columbus, OH: April-May 1991.
- 100) Hancock, P.A., Caird, J.K., Shekhar, S., Yang, A., Coyle, M., Shargal, M., & Johnson, S. The left-turn. Paper Presented at the Second Annual Transportation Research Conference, St. Paul, MN: May 1991.
- 101) Caird, J.K., & Hancock, P.A. Is turning left while driving like deliberately missing a ball? Paper presented at the Annual Meeting of NASPSPA, The North American Society for the Psychology of Sport and Physical Activity, Asilomar, CA: June 1991.
- 102) Holland, F.G., & Hancock, P.A. The inverted-U: A paradigm in chaos. Paper presented at the Annual Meeting of NASPSPA, The North American Society for the Psychology of Sport and Physical Activity, Asilomar, CA: June 1991.
- 103) Sullivan, T.E., Warm, J.S., Schefft, B.K., Dember, W.M., Seaman, K.G., & Hancock, P.A. Effects of spatial uncertainty on perceived workload in the vigilance performance of high and low resourceful individuals. Annual Meeting of the Southern Society for Philosophy and Psychology, Atlanta, GA: 1991.
- 104) Becker, A.B. Warm, J.S., Dember, W.N., & Hancock, P.A. Effects of feedback on perceived workload in vigilance performance. Paper presented at the 35th Annual Meeting of the Human Factors Society, San Francisco, CA: September 1991.
- 105) Warm, J.S., Dember, W.N., Gluckman, J.P., & Hancock, P.A. Vigilance, and workload. Paper presented at the 35th Annual Meeting of the Human Factors Society, San Francisco, CA: September 1991.
- 106) Hancock, P.A., Caird, J.K., Shekhar, S., & Vercruyssen, M. Factors influencing drivers' left-turn decisions. Paper presented at the 35th Annual Meeting of the Human Factors Society, San Francisco, CA: September 1991.
- 107) Caird, J.K., & Hancock, P.A. Perceived spatial layout of a simulated scene as a function of experience. Paper presented at the 35th Annual Meeting of the Human Factors Society, San Francisco, CA: September 1991.
- 108) Harris, W.C., Hancock, P.A., Arthur, E., & Caird, J.K. Automation influences on performance, workload and fatigue. Paper presented at the 35th Annual Meeting of the Human Factors Society, San Francisco, CA: September 1991.
- 109) Hancock, P.A. Where older drivers make mistakes. Paper presented at the Annual Meeting of the Gerontological Society of America, San Francisco, CA: November 1991.
- 110) Becker, A.B., Warm, J.S., Dember, W.N., Sparnall, J., DeRonde, L., & Hancock, P.A. The effects of aircraft noise on performance efficiency and perceived workload in a vigilance task. Paper presented at the Eighty-Four Annual Meeting of the Southern Society for Philosophy and Psychology, Memphis, TN: April 1992.
- 111) Hancock, P.A., Caird, J.K., Shekhar, S., Stackhouse, S., Coyle, M., Shargal, M., Kozak, J., Rausch, R., Harris, W., & Arthur, E. Human factors in IVHS. Paper presented at the Third Annual University of Minnesota Transportation Research Conference, St. Paul, MN: May 1992.

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- 112) Shekhar, S., Yang, A., & Hancock, P.A. Evaluation of relational databases for advanced driver information systems. Paper presented at the Third Annual University of Minnesota Transportation Research Conference, St. Paul, MN: May 1992.
- 113) Stackhouse, S., Shekhar, S., & Hancock, P.A. Guidestar architecture. Paper presented at the Third Annual University of Minnesota Transportation Research Conference, St. Paul, MN: May 1992.
- 114) Hancock, P.A. Laws of Stress Exposure: Thermal conditions. Paper presented at the 1st Industrial Engineering Research Conference, Chicago, IL: May 1992.
- 115) Hancock, P.A. On the nature of cooperation in hybrid human-machine systems. Paper presented at the NASA/FAA Workshop on Artificial Intelligence and Human Factors in Air Traffic Control and Aviation Maintenance, Daytona Beach, FL: June 1992.
- 116) Harris, W.C., Hancock, P.A., Arthur, E., Caird, J.K., & Pithan, C.J. Performance, workload, and fatigue associated with automation. Paper presented at the Centennial Meeting of the American Psychological Association, Washington, D.C.: August 1992.
- 117) Caird, J.K., & Hancock, P.A. Perception of oncoming vehicles time to arrival. Paper presented at the 36th Annual Meeting of the Human Factors Society, Atlanta, GA: October 1992.
- 118) Miyake, S., Hancock, P.A., & Manning, C.M. Effects of prior task load level on subsequent workload and performance. Paper presented at the 36th Annual Meeting of the Human Factors Society, Atlanta, GA: October 1992.
- 119) Caird, J.K., Hancock, P.A., Kozak, J.J., Arthur, E.J., & Manning, C.M. The human factors of virtual reality: Grasping and presence. Paper presented at the 36th Annual Meeting of the Human Factors Society, Atlanta, GA: October 1992.
- 120) Hancock, P.A., & Caird, J.K. Factors influencing older drivers' left turn decisions. Paper presented at the 36th Annual Meeting of the Human Factors Society, Atlanta, GA: October 1992.
- 121) Smith, K., & Hancock, P.A. Managing risk under time stress. Paper presented at the 36th Annual Meeting of the Human Factors Society, Atlanta, GA: October 1992.
- 122) Becker, A.B., Warm, J.S., Dember, W.N., Sparrall, J.A., DeRonde, L., & Hancock, P.A. Effects of aircraft noise on vigilance performance and perceived workload. Paper presented at the 36th Annual Meeting of the Human Factors Society, Atlanta, GA: October 1992.
- 123) Hancock, P.A. The natural philosophy of human factors. Paper presented at the 36th Annual Meeting of the Human Factors Society, Atlanta, GA: October 1992.
- 124) Flach, J.M., & Hancock, P.A. An ecological approach to human-machine systems. Symposium presented at the 36th Annual Meeting of the Human Factors Society, Atlanta, GA: October 1992.
- 125) Hancock, P.A. Nulla in verba: The future of Kinesiology. Paper presented at the Big Ten CIC Symposium, Capstone Experiences in Kinesiology, University of Michigan, Ann Arbor, MI: November 1992.
- 126) Hancock, P.A., & Caird, J.K. Factors involved in older drivers' left-turn decisions. Paper presented at the 72nd Annual Meeting of the Transportation Research Board, Washington, D.C.: January 1993.
- 127) Hancock, P.A., Chrysler, S., & Stackhouse, S. A simulation study to measure driving performance decrement due to the interaction of driving and non-driving tasks. Paper presented at the 3rd Annual Meeting of IVHS America, Washington, D.C.: April 1993.
- 128) Hancock, P.A., & Dewing, W. A driver-centered systems architecture for Intelligent Vehicle Highway Systems. Paper presented at the Fourth Annual Transportation Research Conference, Minneapolis, MN: May 1993.
- 129) Hancock, P.A., Arthur, E.J., & Andre, A.D. Learning in virtual environments. Paper presented at the NASPSPA Meeting, Cragun's, Brainerd, MN: June 1993.
- 130) Rausch, R.J., & Hancock, P.A. The effects of age, sex, and handedness on the perception of time. Paper presented at the NASPSPA Meeting, Cragun's, Brainerd, MN: June 1993.
- 131) Hancock, P.A. Understanding the effects of stress and individual differences. In response to the Papers of P. Ackerman and R. Kanfer. Presented at the NASPSPA Meeting, Cragun's, Brainerd, MN: June 1993.
- 132) Diaz-Lane, K., & Hancock, P.A. (1993). Perceived distance over a planar surface in a virtual environment. Paper presented at the Meeting of the McNair Scholars Program, Minneapolis, MN. July 1993.
- 133) Hancock, P.A. Supersimulation: The future of practical simulation research. Paper Presented at the 37th Annual Meeting of the Human Factors Society, Seattle, WA: October 1993.

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- 134) Dember, W.N., Warm, J.S., Nelson, W.T., Simmons, K.G., Hancock, P.A., & Gluckman, J.P. The rate of gain of perceived workload in sustained attention. Paper Presented at the 37th Annual Meeting of the Human Factors Society, Seattle, WA: October 1993.
- 135) Arthur, E.J., Hancock, P.A., & Chrysler, S.T. Spatial orientation in real and virtual worlds. Paper Presented at the 37th Annual Meeting of the Human Factors Society, Seattle, WA: October 1993.
- 136) Chrysler, S.T., & Hancock, P.A. Attentional demands of in-vehicle technology. Paper Presented at the 37th Annual Meeting of the Human Factors Society, Seattle, WA: October 1993.
- 137) Dewing, W., Duley, J.A., & Hancock, P.A. The role of vehicle type, velocity, and gap size on drivers' left-turn decisions. Paper Presented at the 37th Annual Meeting of the Human Factors Society, Seattle, WA: October 1993.
- 138) Hancock, P.A., & Scallen, S.F. Initiation and cessation of automation: Location versus configuration change. Paper Presented at the 37th Annual Meeting of the Human Factors Society, Seattle, WA: October 1993.
- 139) Smith, K., & Hancock, P.A. Situation awareness explained. Paper Presented at the 37th Annual Meeting of the Human Factors Society, Seattle, WA: October 1993.
- 140) Harris, W.C., Goernert, P.N., Hancock, P.A., & Arthur, E.J. Comparative effectiveness of adaptive automation and operator-initiated automation during anticipated and unanticipated taskload increases. Paper Presented at the 37th Annual Meeting of the Human Factors Society, Seattle, WA: October 1993.
- 141) Caird, J.K., & Hancock, P.A. The perception of virtual and real grasp extent. Paper Presented at the 37th Annual Meeting of the Human Factors Society, Seattle, WA: October 1993.
- 142) Evaristo, R., & Hancock, P.A. Information attributes in high information content tasks: Impact on perceived mental workload. Paper Presented at the 37th Annual Meeting of the Human Factors Society, Seattle, WA: October 1993.
- 143) Vercruyssen, M., Welford, A.T., Brogmus, G.E., Fozard, J.L., & Hancock, P.A. Age changes in movement time and Fitts' law. Paper presented at the Cognitive Aging Conference, Atlanta, GA: April 1994.
- 144) Harwood, K., Smith, K., Olson, W., & Hancock, P.A. Shared decision making in the National Airspace system: Flightdeck-ATC integration. Paper presented at the Symposium on Psychology in the Department of Defense. Colorado Springs, CO: April 1994.
- 145) Hamilton, S.L., Warm, J.S., Dember, W.N., Rosa, R.R., & Hancock, P.A. Vigilance performance and stress in evening type individuals. paper presented at the Southern Society for Philosophy and Psychology, Atlanta, GA: April 1994.
- 146) Harris, W.C., Goernert, P.N., Hancock, P.A., & Arthur, E. The comparative effectiveness of system and operator evoked automation as a function of the presence of task load increase. Paper presented at the First Automation Technology and Human Performance Conference. Washington, D.C.: April 1994.
- 147) Duley, J., Scallen, S., & Hancock, P.A. The response of experienced pilots to interface configuration changes for adaptive allocation. Paper presented at the First Automation Technology and Human Performance Conference. Washington, D.C.: April 1994.
- 148) Scallen, S., Duley, J., & Hancock, P.A. Pilot performance and preference for cycles of automation in adaptive function allocation. Paper presented at the First Automation Technology and Human Performance Conference. Washington, D.C.: April 1994.
- 149) Hancock, P.A. On humans and automated machines. Paper presented at the First Automation Technology and Human Performance Conference. Washington, D.C.: April 1994.
- 150) Hancock, P.A., Automated collision-avoidance systems for ITS. Paper presented at the First Automation Technology and Human Performance Conference. Washington, D.C.: April 1994.
- 151) Smith, K., & Hancock, P.A. The risk space in commercial aviation. Paper presented at the Fifth Annual Transportation Research Conference, Minneapolis, MN: May 1994.
- 152) Duley, J., Scallen, S., & Hancock, P.A. Automation, and pilot performance. Paper presented at the Fifth Annual Transportation Research Conference, Minneapolis, MN: May 1994.
- 153) Williams, G., & Hancock, P.A. An integrated user-centered system architecture for in-car traffic information systems. Paper presented at the Fifth Annual Transportation Research Conference, Minneapolis, MN: May 1994.
- 154) Dewing, W., Stackhouse, S., & Hancock, P.A. Willingness of travelers to accept information and advice based on structure, timeliness, mode of presentation and travelers' past experience with traffic advisories. Paper presented at the Fifth Annual Transportation Research Conference, Minneapolis, MN: May 1994.
- 155) Carmody, J., Hancock, P.A., & Vercruyssen, M. Human factors and interior design in enclosed roadways. Paper presented at the Fifth Annual Transportation Research Conference, Minneapolis, MN: May 1994.

- 156) Ly, T., & Hancock, P.A. Virtual reality: Believe it or not. Paper presented at the Meeting of the McNair Scholars Program, Minneapolis, MN: August 1994.
- 157) Neal, S., & Hancock, P.A. The internal body clock. Paper presented at the Meeting of the McNair Scholars Program, Minneapolis, MN: August 1994.
- 158) Caird, J.K., & Hancock, P.A. The effect of static and dynamic whole-hand gestures on the perception of grasped size in a virtual environment. Paper presented at the 38th Annual Meeting of the Human Factors Society, Nashville, TN: October 1994.
- 159) Vasmatazidis, I., Schlegel, R.E., Purswell, J.L., & Hancock, P.A. Cognitive resource depletion under heat stress. Paper presented at the Konz/Purswell Ergonomics Symposium, Texas Tech University, Lubbock, TX: April 1995.
- 160) Manser, M.P., Hancock, P.A., Olofinboba, O., & Schreffler, T. Programmatic description of a high-fidelity wrap around driving simulator. Paper presented at the Sixth Annual Transportation Research Conference, Minneapolis, MN: May 1995.
- 161) Manser, M.P., & Hancock, P.A. The ecological optic approach for specifying time-to-contact information. Paper presented at the Sixth Annual Transportation Research Conference, Minneapolis, MN: May 1995.
- 162) Scallen, S.F., Hancock, P.A., & Duley, J. The control of automation invocation in an adaptive automation context. Paper presented at the Sixth Annual Transportation Research Conference, Minneapolis, MN: May 1995.
- 163) Wagner, D.G., Vercruyssen, M., Hancock, P.A., Williams, G., & Briggs, A. The evaluation of message content of changeable message signs. Paper presented at the Sixth Annual Transportation Research Conference, Minneapolis, MN: May 1995.
- 164) Smith, K., Scallen, S.F., Briggs, A., Knecht, W., & Hancock, P.A. Experimental evidence for the risk space representation of commercial airspace. Paper presented at the Sixth Annual Transportation Research Conference, Minneapolis, MN: May 1995.
- 165) Hancock, P.A. On accidents. Paper presented at the Sixth Annual Transportation Research Conference, Minneapolis, MN: May 1995.
- 166) Scallen, S., & Hancock, P.A. Invoking automation in adaptive environments. Paper presented at the Learning Center Retreat, Silver Lake, MN: May 1995.
- 167) Manser, M., & Hancock, P.A. Exogenous and endogenous factors influencing time-to-contact estimations. Paper presented at the Learning Center Retreat, Silver Lake, MN: May 1995.
- 168) Smith, K., & Hancock, P.A. The Human Factors Research Laboratory Flight Simulator. Paper presented at the Learning Center Retreat, Silver Lake, MN: May 1995.
- 169) Manser, M.P., & Hancock, P.A. The application of optical flow field theory to a real-world driving environment. Paper presented at NASPSPA, Asilomar, Pacific Grove, CA: June 1995.
- 170) Scallen, S.F., & Hancock, P.A. (1995). Pilot performance in automated environments: Experimental research with real-world applications. Paper presented at NASPSPA, Asilomar, Pacific Grove, CA: June 1995.
- 171) Hancock, P.A., & Manser, M. (1995). Endogenous and exogenous factors in time to contact. Paper presented at the Sixth Vision in Vehicles Conference, University of Derby: Derby, England, September.
- 172) Hancock, P.A., & Manser, M. (1995). Sensitivity to time-to-contact across the retina. Paper presented at the Ergonomics and Motor Vehicles Conference, November, Barcelona, Spain. (Unattended Poster).
- 173) Vercruyssen, M., Hancock, P.A., Knecht, W., Olofinboba, O., Chrysler, S., Williams, G., May, D., & Newell, R. (1995). Lighted guidance devices: Environmental modulation of driving behavior through work zones. Proceedings of the 2nd ITS World Congress (pp. 1199-1204). Yokohama, Japan: Vehicle, Road, and Traffic Intelligence Society (VERTIS).
- 174) Vercruyssen, M., Hancock, P.A., Williams, G., Olofinboba, O., Nookala, M., & Foderberg, D. (1995). Lighted guidance devices: Environmental modulation of drivers' perception of vehicle speed through work zones. Proceedings of the 2nd ITS World Congress (pp. 1689-1694). Yokohama, Japan: Vehicle, Road, and Traffic Intelligence Society (VERTIS).
- 175) Manser, M.P., & Hancock, P.A. Endogenous and exogenous factors affecting estimations of time to contact. Paper presented at the 39th Annual Meeting of the Human Factors and Ergonomics Society, San Diego, CA: October 1995.
- 176) Vercruyssen, M., Williams, G., Hancock, P.A., & Foderberg, D. Automobile braking response speed: Age differences and effects of collision warnings. Paper presented at the ITS America 6th Annual Meeting. Washington, DC: Intelligent Transportation Society of America, Houston, TX: April 1996.
- 177) Manser, M.P., & Hancock, P.A. Internal and external factors impinging on collision avoidance abilities: Implications for accident rates. Paper presented at the ITS America 6th Annual Meeting. Washington, DC: Intelligent Transportation Society of America, Houston, TX: April 1996.

- 178) Manser, M.P., & Hancock, P.A.. Advanced simulation technology used to reduce accident rates through a better understanding of human behaviors and human perception. Paper Presented at the SPIE Conference, Orlando, FL: April 1996.
- 179) Arthur, E., Hancock, P.A., & Telke, S. (1996). Navigation in virtual environments. Paper Presented at the SPIE Conference, Orlando, FL: April 1996.
- 180) Scallen, S.F., Smith, K., & Hancock, P.A. (1996). Development of a simulator to investigate pilot decision-making in free flight. Paper Presented at the SPIE Conference, Orlando, FL: April 1996.
- 181) Manser, M.P., Scallen, S.F., Carmody, J., & Hancock, P.A. The influence of visual patterns on transportation tunnels walls for improving estimates of time to arrival. Paper presented at the Transportation Research Board, 13th Bi-Annual Symposium on Visibility and Driver Behavior, Iowa City, IA: April 1996.
- 182) Hancock, P.A. Are all transportation accidents human error? Keynote address given to the Center for Transportation Studies Seventh Advisory Board Annual Meeting, Minneapolis, MN: May 1996.
- 183) Scallen, S.F., Manser, M.P., & Hancock, P.A. Wrap-around driving environments: New directions for simulation research. Paper presented at the Seventh Annual Transportation Research Conference, Minneapolis, MN: May 1996.
- 184) Hancock, P.A. Overview of simulation in roadway design research. Paper presented at the Seventh Annual Transportation Research Conference, Minneapolis, MN: May 1996.
- 185) Hancock, P.A. Custer and the Titanic: Denominators of disaster. Paper presented at the Conference, Psychology Beyond the Threshold: A Festschrift for William Dember. Cincinnati, OH: May 1996.
- 186) Hancock, P.A., Scallen, S.F., & Smith, K. Capturing pilot action and cognition in response to en-route air traffic conflicts. Paper presented at the Conference, Psychology Beyond the Threshold: A Festschrift for William Dember. Cincinnati, OH: May 1996.
- 187) Manser, M.P., & Hancock, P.A. Estimations of time-to-contact: From theoretical perspectives to practical applications. Paper presented at the Conference, Psychology Beyond the Threshold: A Festschrift for William Dember. Cincinnati, OH: May 1996.
- 188) Scallen, S.F., Smith, K., & Hancock, P.A. Pilot actions in response to traffic conflicts. Paper presented at the Center for Learning and Cognition Spring Retreat, St. Paul, MN: May 1996.
- 189) Smith, K., Hancock, P.A., & Scallen, S.F. Decision making in free flight. Paper presented at the 40th Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, PA: September 1996.
- 190) Knecht, W., Smith, K., & Hancock, P.A. A dynamic conflict probe and index of collision risk. Paper presented at the 40th Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, PA: September 1996.
- 191) Scallen, S.F., Smith, K., & Hancock, P.A. Pilot actions during traffic situations in a free-flight airspace structure. Paper presented at the 40th Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, PA: September 1996.
- 192) Hancock, P.A., & Smith, K. Calibrating the content of consciousness in context. Paper presented at the 40th Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, PA: September 1996.
- 193) Manser, M.P., Hancock, P.A., & Kinney, C.A. Research paradigm as a factor influencing estimates of time-to-contact. Paper presented at the 40th Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, PA: September 1996.
- 194) Lewin, J.E.K., Smith, K., & Hancock, P.A. Navigation strategies in free-flight: Pilots' use of time-to-contact. Paper presented at the 40th Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, PA: September 1996.
- 195) Hancock, P.A. Driver performance and collision-avoidance. Paper presented at the 76th Annual Transportation Research Board Meeting, Washington, D.C.: January 1997.
- 196) Manser, M.P., Hancock, P.A., Kinney, C., & Diaz, J. Understanding driver behavior through the application of advanced technological systems. Paper presented at the 76th Annual Transportation Research Board Meeting, Washington, D.C: January 1997.
- 197) Scallen, S., Smith, K., & Hancock, P.A. Color-coded displays of traffic information for free flight. Paper presented at the 68th Annual Aerospace Medical Association Conference, Chicago, IL: May 1997.
- 198) Smith, K., Avans, D., Lewin, J., & Hancock, P.A. Thresholds for detection and resolution of en-route conflicts. Paper presented at the 68th Annual Aerospace Medical Association Conference, Chicago, IL: May 1997.
- 199) Manser, M.P., Hancock, P.A., Kinney, C., Campbell, C., & Forberd, M. Influence of driver age and sex on the ability to accurately estimate collision. Paper presented at the Eighth Annual Transportation Research Conference, Minneapolis, MN: May 1997.
- 200) Manser, M.P., Carmody, J., Hancock, P.A., Forberd, M., & Campbell, C. The influence of visual patterns in peripheral vision for modulating driver's speed through tunnels and temporary workzones. Paper presented at the Eighth Annual Transportation Research Conference, Minneapolis, MN: May 1997.

- 201) Desmond, P.A., Matthews, G., & Hancock, P.A. The effects of task demands on driver fatigue. Paper presented at the Eighth Annual Transportation Research Conference, Minneapolis, MN: May 1997.
- 202) Carmody, J., Manser, M., & Hancock, P.A. Use of wrap around driving simulator for roadway design research. Paper presented at the Transportation Research Board (TRB) Symposium on 3-D in Transportation, Minneapolis, MN: May 1997.
- 203) Hancock, P.A. The impact of Intelligent Transportation Systems technology on the older driver. Paper presented at the Seventh Annual Meeting of the Intelligent Transportation Society of America, Washington, DC: May 1997.
- 204) Hancock, P.A., & Koscheyev, V.S. The evolution from physiological adequacy to physiological tuning. Paper presented at the Twelfth Man in Space Symposium, Washington, DC: June 1997.
- 205) Desmond, P.A., & Hancock, P.A. Automated highway systems and driver fatigue. Paper presented at the Rural Advanced Technology and Transportation Systems Meeting, MT: August 1997.
- 206) Knecht, W.R., & Hancock, P.A. Parameterizing a metric of midair collision risk. Paper presented at the 41st Annual Meeting of the Human Factors and Ergonomics Society, Albuquerque, NM: September 1997.
- 207) Smith, K., Briggs, A., Knecht, W., & Hancock, P.A. Success and failure at self-separation in simulated free flight. Paper presented at the 41st Annual Meeting of the Human Factors and Ergonomics Society, Albuquerque, NM: September 1997.
- 208) Masalonis, A.J., Le, M.A., Klinge, J.C., Galster, S.M., Duley, J.A., Hancock, P.A., Hillburn, B.G., & Parasuraman, R. Air traffic control workstation mock-up for free flight experimentation: Lab developments and capabilities. Paper presented at the 41st Annual Meeting of the Human Factors and Ergonomics Society, Albuquerque, NM: September 1997.
- 209) Desmond, P.A., Hancock, P.A., & Monette, J. Motivation, and fatigue-related impairments in simulated driving. Paper presented at the 41st Annual Meeting of the Human Factors and Ergonomics Society, Albuquerque, NM: September 1997.
- 210) Sheridan, T., Price, H.E., Pew, R., Van Cott, H.P., Woods, D.D., & Hancock, P.A. Allocating functions between humans and machines can never be done on a rational basis. Debate conducted at the 41st Annual Meeting of the Human Factors and Ergonomics Society, Albuquerque, NM: September 1997.
- 211) Hancock, P.A., Hendrix, C., & Arthur, E. Spatial mental representations in virtual environments. Paper presented at the 41st Annual Meeting of the Human Factors and Ergonomics Society, Albuquerque, NM: September 1997.
- 212) Desmond, P., Hancock, P.A., & Monette, J. Fatigue, and automation-induced impairments in simulated driving performance. Paper presented at the 77th Annual Meeting of the Transportation Research Board, Washington, DC: January 1998.
- 213) Hancock, P.A. From ratiomorphism to machinocentrism: Our century's history of man's inhumanity to man. Paper presented at the Symposium on Human Interaction with Complex Systems. Dayton, OH: March 1998.
- 214) Parasuraman, R., & Hancock, P.A. Designing automated warning systems: A signal detection and Bayesian analysis. Paper presented at the Third Automation Technology and Human Performance Conference, Norfolk, VA: March 1998.
- 215) Desmond, P.A., Hancock, P.A., & Monette, J.L. Driver fatigue and automated vehicle systems. Paper presented at the Third Automation Technology and Human Performance Conference, Norfolk, VA: March 1998.
- 216) Vercruyssen, M., Siu, K., China, C., Masaki, K., Hoffman, E., Blanchette, P.L., & Hancock, P.A. Age and disease effects on estimates of vehicle time-to-arrival. paper presented at the Annual Meeting of the American Geriatric Society, Seattle, Washington: May 1998.
- 217) Hancock, P.A., Simmons, L., Howarth, H., Hashemi, L., Ranney, T., Bezverkhny, I., Teare, P., & Smits, M. Where drivers need help. Paper presented at the Eighth Annual Meeting of the Intelligent Transportation Society of America, Detroit, MI: May, 1998.
- 218) Hancock, P.A. Safety and the Intelligent Vehicle Initiative. Paper presented at the Nissan Basic Research Workshop on Human Interaction with Automated Systems, Boston, MA: June 1998.
- 219) Vercruyssen, M., Siu, K., Hancock, P.A., Olofinboba, O., Arakaki, K., & Blanchette, P. Time perception over the lifespan. Paper presented at the 10th Biennial Conference of the Hawaii Pacific Gerontological Society, Honolulu, HI: October 1998.
- 220) Vercruyssen, M., Siu, K., Hancock, P.A., Mah, D., Olofinboba, O., Hoffman, E., Arakaki, K., & Blanchette, P.L. Accuracy in estimation of approaching vehicle's time-to-arrival over the lifespan. Paper presented at the 10th Biennial Conference of the Hawaii Pacific Gerontological Society, Honolulu, HI: October 1998.
- 221) Wogalter, M.S., Hancock, P.A., & Dempsey, P.G. On the description and definition of human factors/ergonomics. Paper presented at the 42nd Annual Meeting of the Human Factors and Ergonomics Society, Chicago, IL: October 1998.
- 222) Hashemi, L., Simmons, L.A., Howarth, H., & Hancock, P.A. Effects of an in-vehicle distracter upon driving performance. Paper presented at the 42nd Annual Meeting of the Human Factors and Ergonomics Society, Chicago, IL: October 1998.

- 223) Hancock, P.A. The price of freedom. Paper presented at the 42nd Annual Meeting of the Human Factors and Ergonomics Society, Chicago, IL: October 1998.
- 224) Warm, J.S., Dember, W.N., & Hancock, P.A. Workload, and vigilance. Paper presented at the 42nd Annual Meeting of the Human Factors and Ergonomics Society, Chicago, IL: October 1998.
- 225) Hancock, P.A., & deRidder, S. N. The human side of accidents. Paper presented at the Fifth Annual Meeting of the Intelligent Transportation Society of Minnesota, Bloomington, MN: March 1999.
- 226) Hancock, P.A., & deRidder, S.N. The last fateful seconds: Examining performance response in collision-likely conditions. Paper presented at the Third Annual Interdisciplinary Conference on Human Performance, Warner Springs, CA: March 1999.
- 227) Carmody, J., Harder, K., Scallen, S., & Hancock, P.A. Designing safe transportation environments. Paper presented at the First Minnesota Design Summit, Minneapolis, MN: April 1999.
- 228) Hancock, P.A. Design, and human beings. Paper presented at the First Minnesota Design Summit, Minneapolis, MN: April 1999.
- 229) Hancock, P.A. The effects of in-vehicle distraction upon driver response during a crucial driving maneuver. Paper presented at the Tenth Annual Center for Transportation Studies, Transportation Research Conference, St. Paul, MN: May 1999.
- 230) Knecht, W., & Hancock, P.A. Separation maintenance in high-stress free flight using a time-to-contact based cockpit display of traffic information. Paper presented at 43rd Annual Meeting of the Human Factors and Ergonomics Society, Houston, TX: 1999.
- 231) Harris, W.C., Hancock, P.A., & Goernert, P.N. On the multiple-task performance of high and low mood disturbance individuals. Paper presented at 43rd Annual Meeting of the Human Factors and Ergonomics Society, Houston, TX: 1999.
- 232) Carmody, J., Harder, K., & Hancock, P.A. Designing safer transportation environments. Paper presented at the 31st Annual meeting of the Environmental Design Research Association. San Francisco, CA: May 2000.
- 233) Hancock, P.A. The tale of a two-faced tiger: Identifying commonalities across accident types to reduce their impact and frequency by design. Paper presented at the Eleventh Annual Transportation Research Conference, St. Paul, MN: May 2000.
- 234) De Ridder, S.N., & Hancock, P.A. When two cars meet at the wrong place and the wrong time. Paper presented at the Eleventh Annual Transportation Research Conference, St. Paul, MN: May 2000.
- 235) Hancock, P.A. Safety and in-vehicle technologies. Paper presented at the ITS Minnesota Forum, St. Paul, MN: October 2000.
- 236) Hancock, P.A., Mouloua, M., & Torrez, L. Driver distraction and in-vehicle technologies. Paper presented at the Annual University of Michigan Transportation Research Institute Meeting on Human Factors, Ann Arbor, MI: April 2001.
- 237) Mouloua, M., Rinalducci, E., Hancock, P.A., & Aty, M. Driver distraction and workload. Paper presented at the AAA Traffic Safety Meeting, Washington, DC: June 2001.
- 238) Mouloua, M., Jerome, C.J., Helmick, J.A., & Hancock, P.A. Vehicle navigation systems and driving performance: Effects of display mode and traffic condition. Paper presented at the Inauguration of the UCF Engineering II Complex, Orlando, FL: August 2001.
- 239) Mouloua, M., Agliata, D., Kanter, A., Cruz, I.Y., Sanders, B., Siebert, R., Jerome, C., Ganey, N., Mayo, J., & Hancock, P.A. Effects of radio tuning on driving performance. Paper presented at the Inauguration of the UCF Engineering II Complex, Orlando, FL: August 2001.
- 240) Ganey, H.C.N., Mouloua, M., Hancock, P.A., & Jerome, C.J. Driver workload and distraction: A taxonomy. Paper presented at the Inauguration of the UCF Engineering II Complex, Orlando, FL: August 2001.
- 241) Mouloua, M., Gilson, R., Daskarolis-Kring, E., Kring, J., & Hancock, P.A. Ergonomics of UAV/UCAV mission success: Considerations for data link, control, and display issues. Paper presented at the 45th Annual Meeting of the Human Factors and Ergonomics Society, Minneapolis, MN: October 2001.
- 242) Mouloua, M., Gilson, R., Kring, J., & Hancock, P.A. Workload, situation awareness, and teaming issues for UAV/UCAV operations. . Paper presented at the 45th Annual Meeting of the Human Factors and Ergonomics Society, Minneapolis, MN: October 2001.
- 243) Hancock, P.A., Harris, W.C., & Harris, S.C. Information processing changes following extended stress. . Paper presented at the 45th Annual Meeting of the Human Factors and Ergonomics Society, Minneapolis, MN: October 2001.
- 244) Hancock, P.A., Ganey, H.C.N., Mouloua, M., Salas, E., Gilson, R., Greenwood-Eriksen, A., Parasuraman, R., Harris, W., Leon, A., & Smith, K. A descriptive framework for the evaluation of stress effects on operator performance. .Paper presented at the 45th Annual Meeting of the Human Factors and Ergonomics Society, Minneapolis, MN: October 2001.

- 245) Hancock, P.A. From origin to aspiration: Development of the University of Minnesota's Human Factors Research Laboratory. Paper presented at the 45th Annual Meeting of the Human Factors and Ergonomics Society, Minneapolis, MN: October 2001.
- 246) Hancock, P.A. (Chair and Organizer), W. Makous and W. Knecht (Co-Chairs), R. de Pontbriand and W. Howell (Honorary Co-Chairs). Human factors responses to problems of terrorism. Symposium presented at the 45th Annual Meeting of the Human Factors and Ergonomics Society, Minneapolis, MN: October 2001. (This session replaced the "Why does Dilbert, the Far Side, and other Cartoons convey Essential Truths about Human Factors and Ergonomics, J.K. Caird, N. Ward., S.F. Scallan., J. Davies, P.A. Hancock, & D. Woods contributors).
- 247) Hancock, P.A. Understanding the problems that older drivers face. Presentation in the Debate on Older Drivers given at the 45th Annual Meeting of the Human Factors and Ergonomics Society, Minneapolis, MN: October 2001.
- 248). Hancock, P.A. Mind-mind symbiosis: Beyond the Human-Machine Interface. Paper presented at the Workshop on Perceptive User Interfaces. Orlando, FL: November 2001.
- 249). Hancock, P.A. Sex and age differences in time perception. Paper presented at the 42nd Annual Meeting of the Psychonomic Society, Orlando, FL: November 2001.
- 250). Mouloua, M., Abdel-Aty, M., Hancock, P.A., & Rinalducci, E. Development of an experimental protocol for evaluating driver distraction. Paper presented at the Annual Meeting of the Transportation Research Board, Washington, DC: January 2002.
- 251) Hancock, P.A. Multidisciplinary University Research Initiative (MURI): Optimizing cognitive readiness under combat conditions. Paper presented at the Mid-Year Symposium of Division 21: Applied Experimental and Engineering Psychology, Division 19: Military Psychology of the American Psychological Association and the Potomac Chapter of the Human Factors and Ergonomics Society, Ft. Belvoir, VA: March 2002.
- 252) Harris, W.C., Parasuraman, R., Zinni, M., Hancock, P.A., & Harris, S.C. Viking: Development of an infantry scenario multi-task environment. Paper presented at the Mid-Year Symposium of Division 21: Applied Experimental and Engineering Psychology, Division 19: Military Psychology of the American Psychological Association and the Potomac Chapter of the Human Factors and Ergonomics Society, Ft. Belvoir, VA: March 2002.
- 253) Weaver, J.L., Sims, V.K., Ganey, H.C.N., Hancock, P.A., Bradley, K., & Mouloua, M. The influence of stress and individual differences on subjective time. Paper presented at the Mid-Year Symposium of Division 21: Applied Experimental and Engineering Psychology, Division 19: Military Psychology of the American Psychological Association and the Potomac Chapter of the Human Factors and Ergonomics Society, Ft. Belvoir, VA: March 2002.
- 254) Morris, C.S., Tarr, R.W., Shirkey, E., Hancock, P.A., & Mouloua, M. Training and performance outcome: Advanced technologies, realistic graphics, and increased simulation may not be contributors. Paper presented at the Mid-Year Symposium of Division 21: Applied Experimental and Engineering Psychology, Division 19: Military Psychology of the American Psychological Association and the Potomac Chapter of the Human Factors and Ergonomics Society, Ft. Belvoir, VA: March 2002.
- 255) Diaz, D.D., Sims, V.K., & Hancock, P.A. Visual search for two identical targets: The role of ecological validity. Paper presented at the Mid-Year Symposium of Division 21: Applied Experimental and Engineering Psychology, Division 19: Military Psychology of the American Psychological Association and the Potomac Chapter of the Human Factors and Ergonomics Society, Ft. Belvoir, VA: March 2002.
- 256) Greenwood-Ericksen, A., Ganey, H.C.N., Weaver, J.L., Mouloua, M., & Hancock, P.A. The effect of time stress on mission performance in a virtual combat mission. Paper presented at the Mid-Year Symposium of Division 21: Applied Experimental and Engineering Psychology, Division 19: Military Psychology of the American Psychological Association and the Potomac Chapter of the Human Factors and Ergonomics Society, Ft. Belvoir, VA: March 2002.
- 257) Bradley, K.A., Thropp, J.E., Weaver, J.L., Mouloua, M., & Hancock, P.A. Reducing driver error to enhance transportation safety and efficiency. . Paper presented at the Mid-Year Symposium of Division 21: Applied Experimental and Engineering Psychology, Division 19: Military Psychology of the American Psychological Association and the Potomac Chapter of the Human Factors and Ergonomics Society, Ft. Belvoir, VA: March 2002.
- 258) Walker, A.J., Harris, W.C., Leon, A.S., & Hancock, P.A. Changes in salivary amylase and self-reported fatigue across three increasingly intense bouts of exercise. Paper presented at the Mid-Year Symposium of Division 21: Applied Experimental and Engineering Psychology, Division 19: Military Psychology of the American Psychological Association and the Potomac Chapter of the Human Factors and Ergonomics Society, Ft. Belvoir, VA: March, 2002.
- 259) Walker, A.J., Bolgren, H.L., Nicols, K.G., Leon, A.S., & Hancock, P.A. Salivary amylase as a marker of increasing physiological stress during a five-mile treadmill road march. Paper presented at the Mid-Year Symposium of Division 21: Applied Experimental and Engineering Psychology, Division 19: Military Psychology of the American Psychological Association and the Potomac Chapter of the Human Factors and Ergonomics Society, Ft. Belvoir, VA: March 2002.
- 260) Harris, W.C., Walker, A.J., Lon, A.S., & Hancock, P.A. The effect of physical workload on cognitive performance. Paper presented at the Mid-Year Symposium of Division 21: Applied Experimental and Engineering Psychology, Division 19: Military Psychology of the American Psychological Association and the Potomac Chapter of the Human Factors and Ergonomics Society, Ft. Belvoir, VA: March 2002.

- 261) Hancock, P.A. Contributions of Human Factors to countering terrorism. Paper presented at the Symposium on Human Factors and Terrorism at the Annual Meeting of the Southeastern Psychological Association, Orlando, FL: March 2002.
- 262) Ganey, H.C.N., Hancock, P.A., Weaver, J.L., Greenwood-Ericksen, A., & Mouloua, M. A human factor approach to the investigation of stress. Paper presented at the Annual Meeting of the Southeastern Psychological Association, Orlando, FL: March 2002.
- 263) Bradley, K.A. Thropp, J.E., Weaver, J.L., Fisher, R.D., & Hancock, P.A. University student's attitudes toward potential American military response to terrorism. Paper presented at the Annual Meeting of the Southeastern Psychological Association, Orlando, FL: March 2002.
- 264) Mouloua, M., Jerome, C.J., Helmick, J., & Hancock, P.A. The effects of navigation system use on driver performance. Paper presented at the Annual Meeting of the Southeastern Psychological Association, Orlando, FL: March 2002.
- 265) Mouloua, M., Burbach, T., Torres, N., Shirkey, E., & Hancock, P.A. The relationship between breast surgery and self-esteem. Paper presented at the Annual Meeting of the Southeastern Psychological Association, Orlando, FL: March 2002.
- 266) Mouloua, M., Agliata, D., Kanter, A., Siebert, R., Cruz, I., & Hancock, P.A. Driver distraction: Effects of radio tuning on driving performance. Paper presented at the Annual Meeting of the Southeastern Psychological Association, Orlando, FL: March 2002.
- 267) Hancock, P.A., Weaver, J., & Mouloua, M. Understanding stress effects on behavioral performance. Paper presented at the ARO Life Sciences: The universal language from microbe to man. Workshop-Symposium, High Hampton Inn, Cashiers, NC: April 2002.
- 268) Weaver, J., & Hancock, P.A. Effects of stress on the perception of duration. Paper presented at the ARO Life Sciences: The universal language from microbe to man. Workshop-Symposium, High Hampton Inn, Cashiers, NC: April 2002.
- 269) Hancock, P.A. Some observations on the career and achievement of James E. Birren. Paper Presented at the meeting of the Southern Gerontological Society, Orlando, FL: May 2002.
- 270) Hancock, P.A., & Weaver, J.L. The time of your life. Paper Presented at the meeting of the Southern Gerontological Society, Orlando, FL: May 2002.
- 271) Diaz, D.D., Sims, V.K., & Hancock, P.A. Memory for ecologically valid objects during visual search for two identical targets. Paper Presented at the 14th Annual Convention of the American Psychological Society, New Orleans, LA: June 2002.
- 272) Hancock, P.A. The MURI-OPUS Program: Evaluating operator performance under stress. Paper presented at the 110th Meeting of the American Psychological Association, Chicago, IL: August 2002.
- 273) Weaver, J.L., Hancock, P.A., Bradley, K., & Greenwood-Ericksen, A. Combat readiness and fatigue: Laboratory investigations of individuals. Paper presented at the 110th Meeting of the American Psychological Association, Chicago, IL: August 2002.
- 274) Hancock, P.A. Effects of stress on human performance. Franklin Taylor Award Lecture presented at the 110th Meeting of the American Psychological Association, Chicago, IL: August 2002.
- 275) Diaz, D.D., Hancock, P.A., Sims, V.K., & Brill, J.C. The effect of noise stress during search for two identical targets in a realistic visual scan. Paper presented at the 110th Meeting of the American Psychological Association, Chicago, IL: August 2002.
- 276) Brill, J.C., Mouloua, M., Hancock, P.A., Kennedy, R.S., Gilson, R.D., & Smith, M.G. A multi-sensory device and protocol for on-line workload assessment. Paper presented at the 110th Meeting of the American Psychological Association, Chicago, IL: August 2002.
- 277) Weaver, J.L., Bradley, K.A., Thropp, J.E., Hancock, P.A., & Mouloua, M. Driver characteristics and technology: Enhancing transportation safety and efficiency. Paper presented at the 110th Meeting of the American Psychological Association, Chicago, IL: August 2002.
- 278) Morris, C.S., Shirkey, E., Hancock, P.A., & Mouloua, M. Effects of context-relevant stress in PC-based game training. Paper presented at the 110th Meeting of the American Psychological Association, Chicago, IL: August 2002.
- 279) Greenwood-Ericksen, A., Weaver, J.L., & Hancock, P.A. Using a virtual combat simulator to examine soldier performance in infantry combat. Paper presented at the 110th Meeting of the American Psychological Association, Chicago, IL: August 2002.
- 280) Helmick, J.A., Jerome, C., Downes, K., Mouloua, M., & Hancock, P.A. The effects of in-vehicle navigation systems on driving performance and workload. Paper presented at the 110th Meeting of the American Psychological Association, Chicago, IL: August 2002.
- 281) Hancock, P.A. Human factors progress towards improved homeland security. Paper presented at the 46th Meeting of the Human Factors and Ergonomics Society, Baltimore, MD: October 2002.

- 282) Siebert, P., Mouloua, M., Burns, K., Marino, J., Scagolia, L., Winters, L., Hancock, P.A., & Agliata, D. The effects of telematics on driver distraction. Paper presented at the 46th Meeting of the Human Factors and Ergonomics Society, Baltimore, MD: October 2002.
- 283) Hancock, P.A. Is a grand unified theory of cognitive engineering possible? Paper presented at the 46th Meeting of the Human Factors and Ergonomics Society, Baltimore, MD: October 2002.
- 284) Szalma, J.L., Hancock, P.A., Mouloua, M., & Parasuraman, R. Applications of fuzzy signal detection theory to responses to terrorism. Paper presented at the 46th Meeting of the Human Factors and Ergonomics Society, Baltimore, MD: October 2002.
- 285) Hancock, P.A., Szalma, J.L., Mouloua, M., & Stafford, S. Defeating terrorism using human factors/ergonomics. Paper presented at the 46th Meeting of the Human Factors and Ergonomics Society, Baltimore, MD: October 2002.
- 286) Hancock, P.A. Is there a science of (adaptive) interface design for decision-making? Paper presented at the 23rd Army Science Conference, Orlando, FL: December 2002.
- 287) Hancock, P.A., Ganey, H.C.N., & Szalma, J.L. Performance under stress: A re-evaluation of a foundational law of psychology. Paper presented at the 23rd Army Science Conference, Orlando, FL: December 2002.
- 288) Brill, J.C., Mouloua, M., Hancock, P.A., Gilson, R.D., Kennedy, R.S., & Smith, M.G. A multi-sensory protocol for evaluating workload associated with new Army technologies. Paper presented at the 23rd Army Science Conference, Orlando, FL: December 2002.
- 289) Hancock, P.A., Ward, P., Szalma, J.L., Stafford, S., & Ganey, H.C.N. Stress and human information processing: A descriptive framework presented in a novel manner. Paper presented at the 23rd Army Science Conference, Orlando, FL: December 2002.
- 290) Hancock, P.A., Szalma, J.L., & Weaver, J.L. The distortion of perceptual space-time under stress. Paper presented at the 23rd Army Science Conference, Orlando, FL: December 2002.
- 291) Mouloua, M., Gilson, R.D., Hancock, P.A., & Brill, J.C. Development of effective decision strategies for alarm diagnosis in military aviation. Paper presented at the 23rd Army Science Conference, Orlando, FL: December 2002.
- 292) Greenwood-Ericksen, A., Weaver, J.L., & Hancock, P.A. Using a virtual combat simulator to examine soldier performance in infantry combat. Paper presented at the 23rd Army Science Conference, Orlando, FL: December 2002.
- 293) Morris, C.S., & Hancock, P.A. Off-the-shelf games and training: Lessons learned. Paper presented at the 23rd Army Science Conference, Orlando, FL: December 2002.
- 294) Morris, C.S., Ganey, H.C.N., Ross, J., & Hancock, P.A. The point of diminishing immersive return: Implications for simulation-based training. Paper presented at the 23rd Army Science Conference, Orlando, FL: December 2002.
- 295) Ross, J.M., Szalma, J.L., Thropp, J., & Hancock, P.A. Performance, workload, and stress with temporal and spatial demands. Paper presented at the Annual Mid-Year Symposium of the American Psychological Association, Divisions 19 and 21, Ft. Belvoir, VA: March 2003. (This Paper won the Best Graduate Student paper of Division 19).
- 296) Hancock, P.A. Operator performance under stress: Present progress and future directions. Paper presented at the Annual Mid-Year Symposium of the American Psychological Association, Divisions 19 and 21, Ft. Belvoir, VA: March 2003.
- 297) Burke, K.A., Greenwood-Eriksen, A., Weaver, J.L., & Hancock, P.A. Application of an off-the-shelf commercial software package for the evaluation of stress on performance. Paper presented at the Annual Mid-Year Symposium of the American Psychological Association, Divisions 19 and 21, Ft. Belvoir, VA: March 2003.
- 298) Murphy, L.L., Szalma, J.L., Hancock, P.A., & Stafford, S.C. Comparison of methods of analyses of fuzzy and traditional signal detection theory. Paper presented at the Annual Mid-Year Symposium of the American Psychological Association, Divisions 19 and 21, Ft. Belvoir, VA: March 2003.
- 299) Szalma, J.L., Ward, P., & Hancock, P.A. Application of fuzzy signal detection theory to the evaluation of performance under stress. Paper presented at the Annual Mid-Year Symposium of the American Psychological Association, Divisions 19 and 21, Ft. Belvoir, VA: March 2003.
- 300) Ward, P., Szalma, J.L., & Hancock, P.A. Predicting performance under stressful conditions: A theoretical and empirical approach. Paper presented at the Annual Mid-Year Symposium of the American Psychological Association, Divisions 19 and 21, Ft. Belvoir, VA: March 2003.
- 301) Siebert, P., Mouloua, M., Jenkins, N., Winters, L., Scagliola, L., Marino, J., Burns, K., & Hancock, P.A. Understanding driver distraction: An experimental evaluation. Paper presented at the 49th Southeastern Psychological Association meeting, New Orleans, LA: March 2003.

- 302) Brill, J.C., Mouloua, M., Hancock, P.A., Gilson, R.D., & Kennedy, R.S. Multi-sensory workload assessment protocol (M-SWAP): Feasibility of incorporating demand scalability. Paper presented at the 49th Southeastern Psychological Association meeting, New Orleans, LA: March 2003.
- 303) Oakley, B., Mouloua, M., & Hancock, P.A. Effects of automation reliability on human monitoring performance. Paper presented at the 49th Southeastern Psychological Association meeting, New Orleans, LA: March 2003.
- 304) Bradley, K.A., Weaver, J.L., Greenwood-Ericksen, A., Helmick, J.A., Burke, K.A., & Hancock, P.A. Individual and dual task performance decrements as a function of stressor function. Paper presented at the 49th Southeastern Psychological Association meeting, New Orleans, LA: March 2003.
- 305) Hancock, P.A., Szalma, J.L., & Mouloua, M. Applications of psychology to homeland defense. Symposium presented at the 49th Southeastern Psychological Association meeting, New Orleans, LA: March 2003.
- 306) Szalma, J.L., Hancock, P.A., & Mouloua, M. Applications of fuzzy signal detection theory to homeland defense. Paper presented at the 49th Southeastern Psychological Association Meeting, New Orleans, LA: March 2003.
- 307) Szalma, J.L., Hancock, P.A., Weaver, J.L., Mouloua, M., & Stafford, S.C. Applications of fuzzy signal detection theory to law enforcement. Paper presented at the 49th Southeastern Psychological Association Meeting, New Orleans, LA: March 2003.
- 308) Szalma, J.L., Hancock, P.A., & Weaver, J.L. Development of a theory of stress and attentional narrowing. Paper presented at the 95th Annual Meeting of the Southern Society for Philosophy and Psychology, Atlanta, GA: April 2003.
- 309) Ward, P., Szalma, J.L., & Hancock, P.A. Expertise: A long term adaptation to stress? Paper presented at the 95th Annual Meeting of the Southern Society for Philosophy and Psychology, Atlanta, GA: April 2003.
- 310) Helton, W.S., Shaw, T.S., Warm, J.S., Matthews, G., Dember W.N., & Hancock, P.A. Effects of transitions in signal salience on vigilance performance and stress. Paper presented at the 95th Annual Meeting of the Southern Society for Philosophy, Atlanta GA: April 2003.
- 311) Ward, P., Szalma, J.L., & Hancock, P.A. Adaptive experts and automaticity: Explanations of failing under pressure Paper presented at the ARO Workshop, *Seeing both the scene and unseen – Human sight and microscopic sites*. ARO Workshop Proceedings, Cashiers, NC: April 2003.
- 312) Szalma, J.L., & Hancock, P.A. Fuzzy signal detection: initial evidence for a novel approach to evaluation of decision-making under certainty. Paper presented at the ARO Workshop, *Seeing both the scene and unseen – Human sight and microscopic sites*. ARO Workshop Proceedings, Cashiers, NC: April 2003.
- 313) Brill, J.C., Mouloua, M., Hancock, P.A., Gilson, R.D., & Kennedy, R.S. A protocol for assessing reserve cognitive capacity on complex systems. Poster presented at the 6th International Conference on Natural Decision Making, Pensacola, FL: 2003.
- 314) Szalma, J.L. & Hancock, P.A. Fuzzy signal detection theory: Capturing the uncertainty in natural decision making. Poster presented at the 6th International Conference on Natural Decision Making, Pensacola, FL: 2003.
- 315) Walker, A.J., Leon, A.S., & Hancock, P.A. Changes in cognitive performance of soldiers during exercise. Paper presented at the 50th Annual Meeting of the American College of Sports Medicine, San Francisco, CA: May 2003.
- 316) Hancock, P.A. (On behalf of R.S. Kennedy). Automated performance testing. Paper presented at the Workshop on Cognitive, Psycho-physiological, and Behavioral Monitoring for Military Field Applications, Cincinnati, OH: June 2003.
- 317) Hancock, P.A. Observations on the opportunities and limits of workload as an indicator of war-fighter capacity and resilience. Panel presentation at the Workshop on Cognitive, Psycho-physiological, and Behavioral Monitoring for Military Field Applications, Cincinnati, OH: June 2003.
- 318) Brill, J.C., Mouloua, M., Hancock, P.A., Gilson, R.D., & Kennedy, R.S. *Assessing spare attentional capacity of drowsy drivers: Protocol development*. Paper Presented at the 2nd International Symposium of Human Factors in Driver Assessment, Training and Vehicle Design, Park City, UT: 2003.
- 319) Brill, J.C., Hancock, P.A. & Gilson, R.D. *Driver fatigue: Is something missing?* Paper Presented at the 2nd International Symposium on Human Factors in Driver Assessment, Training and Vehicle Design, Park City, UT: 2003.
- 320) Mouloua, M., Rinalducci, E., Hancock, P.A., & Brill, J.C. *Evaluating workload associated with telematic devices via secondary task protocol*. Paper Presented at the 2nd International Symposium on Human Factors in Driver Assessment, Training and Vehicle Design, Park City, UT: 2003.
- 321) Ganey, H.C.N., Ward, P., Ward, P., Hancock, P.A., & Szalma, J.L. Naturalistic driving user and task analysis. Paper Presented at the 2nd International Symposium on Human Factors in Driver Assessment, Training and Vehicle Design, Park City, UT: 2003.
- 322) Hancock, P.A. Some barriers to understanding driving. Concluding Plenary Address Presented at the 2nd International Symposium on Human Factors in Driver Assessment, Training and Vehicle Design, Park City, UT: 2003.

- 323) Bradley, K.A., Weaver, J.L., & Hancock, P.A. A research agenda for the United States Coast Guard. Paper presented at the First Annual Meeting of the Society for Human Performance in Extreme Environments, Denver, CO: October 2003.
- 324) Brill, J.C., Mouloua, M., Hancock, P.A., & Kennedy, R.S. Evaluating human performance and advanced technology design in extreme environments. Paper presented at the First Annual Meeting of the Society for Human Performance in Extreme Environments, Denver, CO: October 2003.
- 325) Terrence, P.I., Gilson, R.D., & Hancock, P.A. Assessment of real data and theoretical issues in extreme aviation environments. Paper presented at the First Annual Meeting of the Society for Human Performance in Extreme Environments, Denver, CO: October 2003.
- 326) Greenwood-Ericksen, A., Weaver, J.L., Burke, K., Bradley, K.A., & Hancock, P.A. An affordable medium-fidelity virtual environment soldier simulator designed for infantry combat research. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 327) Stafford, S.C., Szalma, J.L., Hancock, P.A., & Mouloua, M. Application of fuzzy signal detection theory to vigilance: The effect of criterion shifts. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 328) Murphy, L., Szalma, J.L., & Hancock, P.A. Comparison of fuzzy signal detection and traditional signal detection theory: Approaches to performance measurement. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 329) Hancock, P.A. Individuation: Not merely human-centered but person-specific design. Paper presented at the Panel on Considering the Importance of Individual Differences in Human Factors Research: No Longer Simply Confounding Noise at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 330) Brill, J.C., Mouloua, M., Hancock, P.A., Gilson, R.D., & Kennedy, R.S. Demonstrating a methodology for assessing cognitive capacities across sensory systems: M-SWAP. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 331) Murphy, L., Stanney, K., & Hancock, P.A. The effect of affect: The hedonomic evaluation of human-computer interaction. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 332) Oakley, B., Mouloua, M., & Hancock, P.A. Effects of automation reliability on human monitoring performance. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 333) Hancock, P.A. The ergonomics of torture: The moral dimension of evolving human-machine technology. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 334) Harris, W.C., & Hancock, P.A. Field assessment of cognitive performance under stress. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 335) Thropp, J.E., Szalma, J.L., Ross, J.M., & Hancock, P.A. Individual differences in dispositional pessimism, stress, and coping as a function of task type. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 336) Diaz, D.D., Sims, V.K., Hancock, P.A., Smith, H.S., Upham Ellis, L., Clark, B., & Sushil, D. Moderating factors in visual search: The role of ecological validity. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 337) Ross, J.M., Szalma, J.L., Thropp, J., & Hancock, P.A. Performance, workload, and stress correlates of temporal and spatial task demands. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 338) Ganey, H.C.N., Szalma, J.L., Hancock, P.A., & Mouloua, M. The role of choice and individual differences in the mitigation of noise and task stressors on vigilance. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 339) Hancock, P.A. What graduate students should know about getting published. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 340) Hancock, P.A. Don't just be polite – Please me. Paper presented at the Panel on the Etiquette Perspective for Human-Automation Relationships: Application, Models and Results at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 341) Mouloua, M., Hancock, P.A., Rinalducci, E., & Brill, J.C. Effects of radio tuning on driving performance. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 342) Morris, C.S., French, J., Shirkey, E.C., & Hancock, P.A. Cognitive functioning under the influence of electromagnetic fields. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.

- 343) Ward, P., Szalma, J.L., & Hancock, P.A. The stress and performance relationship and the effects of performance moderators. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 344) Bradley, K.A., Weaver, J.L., Burke, K.A., Helmick, J.A., Greenwood-Ericksen, A., & Hancock, P.A. An experimental investigation of skill, rule, and knowledge-based performance under noise conditions. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 345) French, J., Morris, C.S., & Hancock, P.A. Modeling fatigue-degraded performance in artificial agents. Paper presented at the 47th Annual Meeting of the Human Factors and Ergonomics Society, Denver: October 2003.
- 346) Mouloua, M., Rinalducci, E., Hancock, P.A., Siebert, P., Brill, J.C., & Kennedy, R.S. Effects of telematics on driver distraction. Paper presented at the 50th Annual Meeting of the Southeastern Psychological Association, March 2004.
- 347) Morris, C.S., Hancock, P.A., & Shirkey, E.C. Cognitive-motivational explanations of stress-adaptation. Paper presented at the 50th Annual Meeting of the Southeastern Psychological Association, March 2004.
- 348) Cherry, S., & Hancock, P.A. Female serial killers: The silent epidemic. Paper for the 50th Annual Meeting of the Southeastern Psychological Association, March 2004. (Accepted not presented).
- 349) Ross, J.M., Szalma, J.L., & Hancock, P.A. Effects of spatial/temporal task demands on false alarms. Paper presented at the American Psychological Association Division 19/Division 21 Midyear Symposium, Fort Belvoir, VA: March 2004.
- 350) Thropp, J.E., Szalma, J.L., Ross, J.M., & Hancock, P.A. Impact of extraversion on performance and workload and target detection. Paper presented at the American Psychological Association Division 19/Division 21 Midyear Symposium, Fort Belvoir, VA: March 2004.
- 351) Stafford, S.C., Oron-Gilad, T., Szalma, J.L., De La Santos, K., & Hancock, P.A. Improving seatbelts for police and military personnel. Paper presented at the American Psychological Association Division 19/Division 21 Midyear Symposium, Fort Belvoir, VA: March 2004.
- 352) Helton, W.S., Shaw, T.H., Warm, J.S., Matthews, G., Dember, W.N., & Hancock, P.A. Demand transitions in vigilance: Effects on performance efficiency and stress. Paper presented at the Human Performance, Situation Awareness and Automation Conference, Daytona Beach, FL: March 2004.
- 353) Harris, W.C., Grady, T., & Hancock, P.A. The effect of mental workload on cognitive performance, stress hormones and subjective mood. Paper presented at the Human Performance, Situation Awareness and Automation Conference, Daytona Beach, FL: March 2004.
- 354) Ross, J.M., Szalma, J.L., & Hancock, P.A. Effects of spatial temporal task demands on false alarms in a target identification task. Paper presented at the Human Performance, Situation Awareness and Automation Conference, Daytona Beach, FL: March 2004.
- 355) Ganey, H.C.N., Koltko-Rivera, M.E., Murphy, L.M., Dalton, J., & Hancock, P.A. Affect as an aspect of workload: Why and how to address affect in automation and simulation studies. Paper presented at the Human Performance, Situation Awareness and Automation Conference, Daytona Beach, FL: March 2004.
- 356) Morris, C.S., Hancock, P.A., Shirkey, E.C., Mouloua, M., & Rinalducci, E. Revisiting ecological validity in aversive experimental settings. Paper presented at the Human Performance, Situation Awareness and Automation Conference, Daytona Beach, FL: March 2004.
- 358) Brill, J.C., Gilson, R.D., Mouloua, M., Hancock, P.A., & Terrence, P.I. Increasing situation awareness of dismounted soldiers via directional cueing. Paper presented at the Human Performance, Situation Awareness and Automation Conference, Daytona Beach, FL: March 2004.
- 359) Mouloua, M., & Hancock, P.A. Psychological correlates of aggressive driving behavior. Paper presented at the Human Performance, Situation Awareness and Automation Technology Conference, Daytona Beach, FL: March 2004.
- 360) Compton, D., Kennedy, R.S., Fatkin, L., Burton, P., Mouloua, M., & Hancock, P.A. Using temporal testing to gauge operator response under stress. Paper presented at the Human Performance, Situation Awareness and Automation Technology Conference, Daytona Beach, FL: March 2004. (Paper accepted, not presented).
- 361) Koltko-Rivera, M.E., Ganey, H.C.N., Murphy, L.M., Hancock, P.A., & Dalton, J. The peacekeeper: How the role of the modern soldier has changed and how that affects workload. Paper presented at the Human Performance, Situation Awareness and Automation Conference, Daytona Beach, FL: March 2004.
- 362) Szalma, J.L., & Hancock, P.A. Expertise, and performance under stress. Paper presented as part of the Panel, From the Perceptual to the Organizational: How can the science of expertise better inform the practice of human performance. At the Human Performance, Situation Awareness and Automation Conference, Daytona Beach, FL: March 2004.

- 363) Mouloua, M., Rinalducci, E.J., & Hancock, P.A. & Alberti, N. Driver distraction: An empirical evaluation. Paper presented at the Human Performance, Situation Awareness and Automation Conference, Daytona Beach, FL: March 2004.
- 364) Smither, J., Mouloua, M., Hancock, P.A., Duley, J., Adams, R., & Latorella, K. Aging and driving I: Implications of physical and perceptual changes. Paper presented at the Human Performance, Situation Awareness and Automation Conference, Daytona Beach, FL: March 2004.
- 365) Mouloua, M., Smither, J., Hancock, P.A., Duley, J., Adams, R., & Latorella, K. Aging and driving II: Implications of cognitive change. Paper presented at the Human Performance, Situation Awareness and Automation Conference, Daytona Beach, FL: March 2004.
- 366) Brill, J.C., Mouloua, M., Hancock, P.A., Gilson, R.D., & Kennedy, R.S. Assessment of reserve capacity across sensory modalities in dual task environments. Paper presented at the Human Performance, Situation Awareness and Automation Conference, Daytona Beach, FL: March 2004.
- 367) Hancock, P.A. Individuation and the problem of soldier performance on the electronic battlefield. . Paper presented as part of the Panel, What personality characteristics do digitally competent soldiers have in common? At the Human Performance, Situation Awareness and Automation Conference, Daytona Beach, FL: March 2004.
- 367) Szalma, J.L., Stafford, S.C., Oron-Gilad, T., Murphy, L.L., & Hancock, P.A. Fuzzy signal detection theory: Basic and applied research. Paper presented at the International Conference on Human Performance, Orlando, FL: April 2004.
- 368) Szalma, J.L., Ross, J.M., Thropp, J.E., & Hancock, P.A. Distortion of spatial and temporal perception under stress. Paper presented at the International Conference on Human Performance, Orlando, FL: April 2004.
- 369) Hancock, P.A., Szalma, J.L., Oron-Gilad, T., Mouloua, M., Gilson, R.D., and the MURI-OPUS Group. Operator performance under stress: A multiple University research initiative. Paper presented at the International Conference on Human Performance, Orlando, FL: April 2004.
- 370) Oron-Gilad, T., Szalma, J.L., & Hancock, P.A. Stress and performance in virtual environments. Paper presented at the ARO Workshop-Symposium on Sensing and Processing by Neuronal and Microbial Communities, Cashiers, NC: April 2004.
- 371) Szalma, J.L., Oron-Gilad, T., & Hancock, P.A. Examination of attentional mechanisms underlying stress and performance. Paper presented at the ARO Workshop-Symposium on Sensing and Processing by Neuronal and Microbial Communities, Cashiers, NC: April 2004.
- 372) Oron-Gilad, T., & Hancock, P.A. Interacting with nanotechnology: Is the time right to look for new applications systematically? Paper presented at the first Florida Tech Transfer Conference, St. Petersburg, FL: May 2004.
- 373) Oron-Gilad, T., Szalma, J.L., & Hancock, P.A. Scalable operator control units (OCU's) for future force warrior (FFW) operations. Paper presented at the Invited Workshop on Modeling Stress Effects for Performance Prediction, Orlando, FL: July 2004.
- 374) Helmick-Rich, J., Burke, K.A., Oron-Gilad, T., & Hancock, P.A. The effects of warning presentation and retention under varying level of stress. Paper presented at the Invited Workshop on Modeling Stress Effects for Performance Prediction, Orlando, FL: July 2004.
- 375) Weaver, J.L., Bradley, K.A., Thropp, J.E., Hancock, P.A., & Mouloua, M. Driver characteristics and technology. Paper presented at the Invited Workshop on Modeling Stress Effects for Performance Prediction, Orlando, FL: July 2004. (Previously presented).
- 376) Ganey, H.C.N., Koltko-Rivera, M.E., Dalton, J., & Hancock, P.A. Human performance: A comprehensive meta-theory and its application to Army science. Paper presented at the Invited Workshop on Modeling Stress Effects for Performance Prediction, Orlando, FL: July 2004.
- 377) Ganey, H.C.N., Koltko-Rivera, M.E., Dalton, J., Murphy, L.L., & Hancock, P.A. Affect as an aspect of workload. Paper presented at the Invited Workshop on Modeling Stress Effects for Performance Prediction, Orlando, FL: July 2004. (Previously presented).
- 378) Ganey, H.C.N., Koltko-Rivera, M.E., Murphy, L.L., Dalton, J., & Hancock, P.A. The peacekeeper: How the role of the modern soldier has changed and how that affects workload. Paper presented at the Invited Workshop on Modeling Stress Effects for Performance Prediction, Orlando, FL: July 2004. (Previously presented).
- 379) Szalma, J.L., Hancock, P.A., Weaver, J.L., Mouloua, M., Stafford, S.C. Applications of fuzzy signal detection theory to law enforcement. Paper presented at the Invited Workshop on Modeling Stress Effects for Performance Prediction, Orlando, FL: July 2004. (Previously presented).
- 380) Greenwood-Eriksen, A., Weaver, J.L., & Hancock, P.A. Using a virtual combat simulator to examine soldier performance in infantry combat. Paper presented at the Invited Workshop on Modeling Stress Effects for Performance Prediction, Orlando, FL: July 2004. (Previously presented).

- 381) Ganey, H.C.N., Hancock, P.A., Weaver, J.L., Greenwood-Eriksen, A., & Mouloua, M. A human factor approach to the investigation of stress. Paper presented at the Invited Workshop on Modeling Stress Effects for Performance Prediction, Orlando, FL: July 2004. (Previously presented).
- 382) Murphy, L.L., Szalma, J.L., Hancock, P.A. A comparison of FSDT and traditional SDT analysis of duration discrimination of brief light flashes. Paper presented at the Invited Workshop on Modeling Stress Effects for Performance Prediction, Orlando, FL: July 2004.
- 383) Murphy, L.L., Stanney, K., & Hancock, P.A. The effect of affect. Paper presented at the Invited Workshop on Modeling Stress Effects for Performance Prediction, Orlando, FL: July 2004. (Previously presented).
- 384) Hancock, P.A. Effects of thermal stress on human performance. Paper presented at the Invited Workshop on Modeling Stress Effects for Performance Prediction, Orlando, FL: July 2004.
- 385) Szalma, J.L., & Hancock, P.A. Alternatives to grouping individuals in the analysis of individual differences data: Applications to optimism and pessimism. Paper presented at the 112th Annual Convention of the American Psychological Association, Honolulu, HI: July 2004.
- 386) Mouloua, M., Hancock, P.A., & Rinalducci, E. Driver distraction: An experimental analysis. Paper presented at the 112th Annual Convention of the American Psychological Association, Honolulu, HI: July 2004.
- 387) Stafford, S., Oron-Gilad, T., Szalma, J.L., Delossantos, K., & Hancock, P.A. Attitudes of police officers toward seat belt usage while on duty. Paper presented at the 112th Annual Convention of the American Psychological Association, Honolulu, HI: July 2004.
- 388) Szalma, J.L., Ross, J., & Hancock, P.A. The influence of dispositional optimism and pessimism on task engagement for spatial and temporal discrimination. Paper presented at the 112th Annual Convention of the American Psychological Association, Honolulu, HI: July 2004.
- 389) Mouloua, M., Santos, M., & Hancock, P.A. Patterns of aggressive driving behavior among college students. Paper presented at the 112th Annual Convention of the American Psychological Association, Honolulu, HI: July 2004.
- 390) Hancock, P.A., Harris, W., & Schmeisser, E. Physiological and cognitive changes in the infantry field environment and Army MURI stress physiology programs. Paper presented at the Office of Naval Research Stress Physiology Review program, San Diego, CA: July 2004.
- 391) Kirkland, J.R., Oron-Gilad, T., & Hancock, P.A. Mapping an objective state of the world to a subjective degree of signalness: An exercise in fuzzy signal detection theory analysis. Paper presented at the 48th Annual Conference of the Human Factors and Ergonomics Society, New Orleans, LA: September 2004.
- 392) Hancock, P.A. The design of time. Paper presented at the 48th Annual Conference of the Human Factors and Ergonomics Society, New Orleans, LA: September 2004.
- 393) Stafford, S., Oron-Gilad, T., Szalma, J.L., & Hancock, P.A. Individual differences related to shooting performance in a police night-training shooting exercise. Paper presented at the 48th Annual Conference of the Human Factors and Ergonomics Society, New Orleans, LA: September 2004.
- 394) Murphy, L.L., Szalma, J.L., & Hancock, P.A. Comparison of fuzzy signal detection and traditional signal detection theory analysis of duration discrimination of brief light flashes. Paper presented at the 48th Annual Conference of the Human Factors and Ergonomics Society, New Orleans, LA: September 2004.
- 395) Greenwood-Eriksen, A., Oron-Gilad, T., Szalma, J.L., Stafford, S., & Hancock, P.A. Workload, and performance: A field evaluation in a police shooting range. Paper presented at the 48th Annual Conference of the Human Factors and Ergonomics Society, New Orleans, LA: September 2004.
- 396) Brill, C., Terrence, P., Downs, J., Gilson, R., Hancock, P.A., & Mouloua, M. Search space reduction via multi-sensory directional cueing. Paper presented at the 48th Annual Conference of the Human Factors and Ergonomics Society, New Orleans, LA: September 2004.
- 397) Koltko-Rivera, M., Ganey, H.C.N., Dalton, J., & Hancock, P.A. Worldview, and acculturation as predictors of performance: Addressing these variables in human factors/ergonomics research. Paper presented at the 48th Annual Conference of the Human Factors and Ergonomics Society, New Orleans, LA: September 2004.
- 398) Hancock, P.A. Are real savings in the virtual world only virtual savings in the real world? Paper presented at the 48th Annual Conference of the Human Factors and Ergonomics Society, New Orleans, LA: September 2004.
- 399) Mouloua, M., Smither, J., & Hancock, P.A. Implications of cognitive changes on driving performance. Paper presented at the 48th Annual Conference of the Human Factors and Ergonomics Society, New Orleans, LA: September 2004.
- 400) Mouloua, M., Rinalducci, E., Hancock, P.A., & Helmick-Rich, J. Understanding driver distraction: An empirical investigation. Paper presented at the 48th Annual Conference of the Human Factors and Ergonomics Society, New Orleans, LA: September 2004.

- 401) Hancock, P.A. The effects of stress on soldier performance. Paper presented at the 48th Annual Conference of the Human Factors and Ergonomics Society, New Orleans, LA: September 2004.
- 402) Helmick, Rich, J., Burke, K., Oron-Gilad, T., & Hancock, P.A. The effects of warning presentations and stress on human performance. Paper presented at the 48th Annual Conference of the Human Factors and Ergonomics Society, New Orleans, LA: September 2004.
- 403) Ross, J.M., Szalma, J.L., & Hancock, P.A. The impact of dispositional optimism and pessimism on stress as a function of psychophysical task characteristics. Paper presented at the 48th Annual Conference of the Human Factors and Ergonomics Society, New Orleans, LA: September 2004.
- 404) Thropp, J., Szalma, J.L., & Hancock, P.A. Performance operating characteristics for spatial and temporal discriminations: Common or separate capacities? Paper presented at the 48th Annual Conference of the Human Factors and Ergonomics Society, New Orleans, LA: September 2004.
- 405) Brill, J.C., Terrance, P.I., Gilson, R.D., Hancock, P.A., Mouloua, M., & Gunzelman, K. Practical and theoretical issues for tactile display design for dismounted infantry. Paper presented at the 24th Army Science Conference, Orlando, FL.
- 406) Goldiez, B., Hancock, P.A., Dawson, J., Livingston, M.A., & Brown, D. Advancing human centered augmented reality research. Paper presented at the Army Science Conference, Orlando, FL: November 2004.
- 407) Helmick-Rich, J., Burke, K.A., Oron-Gilad, T., Moore, J., & Hancock, P.A. Protecting soldiers: Warning presentation and retention under stress in a virtual military task. Paper presented at the 24th Army Science Conference, Orlando, FL: November 2004.
- 408) Murphy, L.L., Szalma, J.L., & Hancock, P.A. Fuzzy signal detection theory: Tests of assumptions and comparison with traditional analyses. Paper presented at the 45th Annual Meeting of the Psychonomic Society, Minneapolis, MN: November 2004.
- 409) Hancock, P.A. The moral dimension of human-machine technology and the ergonomics of torture. Paper presented at the Second Annual Meeting of the Society for Human Performance in Extreme Environments, Orlando, FL: January 2005.
- 410) Hancock, P.A. Nature will not be fooled: Observations on the interdependence of science and politics. Paper presented at the 171st National Meeting of the American Association for the Advancement of Science, Washington, DC: February 2005.
- 411) Koltko-Rivera, M.R., Ganey, H.C.N., Morgan, J.F., & Hancock, P.A. Psychology in the defense against terrorism. Paper presented at the 2005 American Psychological Association Division 21, Division 19, Annual Symposium on Applied Experimental Research, George Mason University, Fairfax, VA: March 2005.
- 412) Koltko-Rivera, M.R., Ganey, H.C.N., & Hancock, P.A. The threat assessment testing exercise (TATE). Paper presented at the 2005 American Psychological Association Division 21, Division 19, Annual Symposium on Applied Experimental Research, George Mason University, Fairfax, VA: March 2005.
- 413) Ganey, H.C.N., Koltko-Rivera, M.R., & Hancock, P.A. The effects of secondary task demand on the assessment of personal threat. Paper presented at the 2005 American Psychological Association Division 21, Division 19, Annual Symposium on Applied Experimental Research, George Mason University, Fairfax, VA: March 2005.
- 414) Ross, J.M., Szalma, J.L., Oron-Gilad, T., & Hancock, P.A. Meta-analytic review of the effects of temperature on performance. Paper presented at the 2005 American Psychological Association Division 21, Division 19, Annual Symposium on Applied Experimental Research, George Mason University, Fairfax, VA: March 2005.
- 415) Morgan, J.F., Oron-Gilad, T., Hancock, P.A., & Szalma, J.L. Perception of morphed objects: Generating psychophysical functions for the evolution of a shape. Paper presented at the 2005 American Psychological Association Division 21, Division 19, Annual Symposium on Applied Experimental Research, George Mason University, Fairfax, VA: March 2005.
- 416) Nayeem, R., Oron-Gilad, T., & Hancock, P.A. Pilot's time perception and time distortion under stress. Paper presented at the International Symposium on Aviation Psychology, Oklahoma City, OK: April 2005.
- 417) Szalma, J.L., & Hancock, P.A. Stress, workload, and the detection of threat. Paper presented at the US Army Research Office Workshop-Symposium on Communication and Applications from Cellular Internals to Mental Contents. High Hampton Inn, Cashiers, North Carolina: May 2005.
- 418) Hancock, P.A., Szalma, J.L., & Oron-Gilad, T. To honor Wickens and restack his boxes. Paper presented at the Conference on Applied Attention: From Theory to Practice: In honor of Dr. Christopher Wickens. Champaign, IL: June 2005.
- 419) Panjwani, G., & Hancock, P.A. The Wickens effect. Paper presented at the Conference on Applied Attention: From Theory to Practice: In honor of Dr. Christopher Wickens. Champaign, IL: June 2005.
- 420) Downs, J.L., Oron-Gilad, T., Hancock, P.A., & Gilson, R.D. Vibro-tactile guidance cues for target identification. Paper presented at the 9th World Multi-conference on Systems, Cybernetics, and Informatics (WMSCI 2005), Orlando, FL: July 2005.

- 421) Hancock, P.A., & Szalma, J.L. The marriage of mind and machine: Advanced human-machine interaction. Paper Presented at the 113th Annual Convention of the American Psychological Association, Washington, DC: August 2005.
- 422) Thropp, J.E., Oron-Gilad, T., Szalma, J.L., & Hancock, P.A. Incorporating individual differences into the adaptive automation paradigm. Paper Presented at the 113th Annual Convention of the American Psychological Association, Washington, DC: August 2005.
- 423) Burke, K.A., Szalma, J.L., Duley, A., Oron-Gilad, T., & Hancock, P.A. Testing the efficiency and effectiveness of soldier performance under increasing task demand. Paper presented at the 49th Annual Meeting of the Human Factors and Ergonomics Society, Orlando: September 2005.
- 424) Hancock, P.A. Our natural evolution toward individuation. Paper presented at the 49th Annual Meeting of the Human Factors and Ergonomics Society, Orlando: September 2005.
- 425) Harris, W.C., Hancock, P.A., & Morgan, C.A. Cognitive chances in special forces personnel following stressful survival training. Paper presented at the 49th Annual Meeting of the Human Factors and Ergonomics Society, Orlando: September 2005.
- 426) Delos Santos, K.A., Stafford, S.C., Szalma, J.L., Oron-Gilad, T., & Hancock, P.A. Evaluation of threat by police officers: Initial findings. Paper presented at the 49th Annual Meeting of the Human Factors and Ergonomics Society, Orlando: September 2005.
- 427) Ahmad, A.M., Goldiez, B.F., & Hancock, P.A. Gender differences in navigation and wayfinding. Paper presented at the 49th Annual Meeting of the Human Factors and Ergonomics Society, Orlando: September 2005.
- 428) Oron-Gilad, T., Hancock, P.A. The role of hedonomics in the future of industry, service, and product design: Panel overview. Panel presented at the 49th Annual Meeting of the Human Factors and Ergonomics Society, Orlando: September 2005.
- 429) Hancock, P.A. Hedonomics: Beyond *dulce far niente*. Paper presented at the 49th Annual Meeting of the Human Factors and Ergonomics Society, Orlando: September 2005.
- 430) Koltko-Rivera, M.E., & Hancock, P.A. Why and how HFE professionals can better use theory: Meta-theory included, and some assembly required. Paper presented at the 49th Annual Meeting of the Human Factors and Ergonomics Society, Orlando: September 2005.
- 431) Thropp, J., Szalma, J.L., & Hancock, P.A. Comparison of spatial and temporal discrimination performance across various levels of difficulty. Paper presented at the 49th Annual Meeting of the Human Factors and Ergonomics Society, Orlando: September 2005.
- 432) Hancock, P.A. Hedonomics: Accentuation of the positive. Paper presented at the 2005 Syracuse Symposium on Environmental and Energy Systems, Syracuse University, Syracuse, New York: October 2005.
- 433) Oron-Gilad, T., Burke, K.A., Merlo, J. & Hancock, P.A. Scalable OCUs for Future Force Warriors, Presentation at the New Mexico State University Robotics Workshop, Las Cruces, New Mexico: November 2005.
- 434) Hancock, P.A. Human Factors and Homeland Security: What we can contribute to DHS success now and in the future. Presentation at the Federation of Behavioral, Psychological, and Cognitive Sciences Forum on Human Factors Research and Homeland Security: Current and Future Applications, Washington, DC: November 2005.
- 435) Morgan, J.F., Oron-Gilad, T., & Hancock, P.A. The driving simulator as a workload research tool. Paper presented at the Driving Simulator Conference, Orlando, FL: December 2005.
- 436) Merlo, J., Stafford, S., Gilson, R., Hancock, P.A., & Fairchild, J. The effects of body position and heart rate on torso mounted tactile displays. Paper presented at the 2006, APA Division 21, Division 19, and HFES Potomac Chapter Annual Symposium on Applied Experimental Research, George Mason University, Fairfax, VA: March 2006.
- 437) Stafford, S., Merlo, J., Gilson, R., & Hancock, P.A. The effects of 360 degree tactile versus auditory cueing on target shooting in a simulated environment. Paper presented at the 2006, APA Division 21, Division 19, and HFES Potomac Chapter Annual Symposium on Applied Experimental Research, George Mason University, Fairfax, VA: March 2006. (Winner: Best Graduate Student Paper Award).
- 438) Hancock, P.A. Measuring the load of mental work. Paper presented at the Annual Applied Ergonomics Conference, Orlando, Florida: March 2006.
- 439) Hancock, P.A. The evolution of time in the brain. Paper presented at the 10th Annual Interdisciplinary Conference on Human Performance, Orlando, FL: March 2006.
- 440) Ross, J., Conway, G., Szalma, J.L., Saxton, B., Braczyk, A., & Hancock, P.A. A meta-analysis of periodic noise stress on human performance. Paper presented at the Society for Human Performance in Extreme Environments, San Francisco, CA: October 2006.
- 441) Merlo, J., Terrence, P., Stafford, S., Gilson, R., Hancock, P.A., Redden, E., Krausman, A., Pettitt, R., White, T., & Carstens, C. Communicating through the use of vibrotactile displays for dismounted and mounted soldiers. Paper presented at the Society for Human Performance in Extreme Environments, San Francisco, CA: October 2006.

- 442) Hancock, P.A., Szalma, J.L., Koltko-Rivera, M., & Vincenzi, D. Application of fuzzy signal detection theory to threat detection in extreme environments. Paper presented at the Society for Human Performance in Extreme Environments, San Francisco, CA: October 2006.
- 443) Stafford, S., Merlo, J., Brill, C., Morgan, J.F., Gilson, R., & Hancock, P.A. Tactile cueing: A potential technology to combat a new type of enemy. Paper presented at the Society for Human Performance in Extreme Environments, San Francisco, CA: October 2006.
- 444) Hancock, P.A. Enhancing human performance in extreme environments. Panel Presentation at the Society for Human Performance in Extreme Environments, San Francisco, CA: October 2006.
- 445) Ross, J.M., Szalma, J.L., & Hancock, P.A. A meta-analysis of performance under thermal stress. Paper presented at the 50th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA: October 2006.
- 446) Conway, G., Szalma, J.L., Saxton, B., Ross, J.M., & Hancock, P.A. The effects of whole-body vibration on human performance: A meta-analytic examination. Paper presented at the 50th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA: October 2006.
- 447) Merlo, J.L., Stafford, S.C., Gilson, R.D., & Hancock, P.A. The effects of physiological stress on tactile communication. Paper presented at the 50th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA: October 2006.
- 448) Hancock, P.A. Recollections of a Presidency. Paper presented at the 50th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA: October 2006.
- 449) Thropp, J., Oron-Gilad, T., Szalma, J.L., & Hancock, P.A. Low and high levels of attentional control in adaptive automation. Paper presented at the 50th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA: October 2006.
- 450) Szalma, J.L., & Hancock, P.A. Performance, workload, and stress in vigilance: The power of choice. Paper presented at the 50th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA: October 2006.
- 451) Harris, W.C., Reeves, D.L., Elsmore, T.F., & Hancock, P.A. Development of an operational setting-specific field cognitive assessment procedure. Paper presented at the 50th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA: October 2006.
- 452) Szalma, J.L., Oron-Gilad, T., Saxton, B., & Hancock, P.A. Application of fuzzy signal detection theory to the discrimination of morphed tank images. Paper presented at the 50th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA: October 2006.
- 453) Fatolitis, P.G., & Hancock, P.A. Defining cognitive tempora: A novel approach to psychological state measurement. Paper presented at the Augmented Cognition Conference, San Francisco, CA: October 2006.
- 454) Szalma, J.L., & Hancock, P.A. Fuzzy signal detection theory: ROC analysis of stimulus and response range effects. Paper presented at the Annual Meeting of the Psychonomic Society, Houston, TX: November 2006.
- 455) Merlo, J.L., Terrence, P.I., Stafford, S., Gilson, R., Hancock, P.A., Redden, E.S., Krausman, A., Carstens, C.B., Pettit, R., & White, T.L. Communicating through the use of vibrotactile displays for dismounted and mounted soldiers. Paper presented at the 25th Army Science Conference, Orlando, FL: November 2006.
- 456) Saxton, B.M., Ross, J.M., Braczyk, A., Conway, G.E., Szalma, J.L., & Hancock, P.A. A meta-analysis of aperiodic noise stress on human performance. Paper presented at the 25th Army Science Conference, Orlando, FL: November 2006.
- 457) Merlo, J.L., Terrence, P.I., Stafford, S., Duley, A.R., Gilson, R. & Hancock, P.A. (2006). Communicating using vibrotactile displays for dismounted and mounted soldiers. Paper presented at the *Department of Defense Human Factors Engineering Technical Advisory Group, Extreme Environments subTAG*, Monterey, CA: November 2006.
- 458) Merlo, J.L., Duley, A.R., & Hancock, P.A. (2006). Microsimulation testbed for training intuitive decision-making in military combat. Paper presented at the *Department of Defense Human Factors Engineering Technical Advisory Group, Training subTAG*, Monterey, CA: November 2006.
- 459) Hancock, P.A., Szalma, J.L., Ross, K.G., & Merlo, J.L. Detecting danger in uncertain circumstances: Applying fuzzy signal detection theory to understanding cultural cues. Paper presented at the Sixth Biennial DEOMI EO/EEO Research Symposium. Patrick AFB, Cocoa Beach, FL: January 2007.
- 460) Renfro, M., Merlo, J.L., Hancock, P.A., & Gilson, R. A multimodal approach to uninhabited operations in dynamic environments. Paper presented at the APA Division 21, Division 19, and HFES Potomac Chapter Annual Symposium on Applied Experimental Research, GMU, Fairfax, VA: March 2007.
- 461) Merlo, J.L., Renfro, M., Duley, A., Hancock, P.A., & Gilson, R. The Stroop effect in touch: How automatic is tactile signaling? Paper presented at the APA Division 21, Division 19, and HFES Potomac Chapter Annual Symposium on Applied Experimental Research, GMU, Fairfax, VA: March 2007.

- 462) Hancock, P.A., & Ross, K.G. Transferring the training by training the technology and transferring the task. Paper presented at the Development of Professional Performance Conference, Orlando, FL: March 2007.
- 463) Szalma, J.L., Duley, A., Flynn, J., & Hancock, P.A. Collaborative technologies and their effect on operator workload in BMC2 domains. Paper presented at the 2007 International Symposium on Collaborative Technologies and Systems, Orlando, FL: May 2007.
- 464) Merlo, J., Renfro, M.B., Duley, A., Gilson, R., & Hancock, P.A. Cross-modal congruency benefits for tactile and visual military signaling. Paper presented at the 5th Annual Meeting of HPEE, Baltimore, MD: September 2007.
- 465) Stafford, S., Wang, J., Merlo, J., & Hancock, P.A. Soldier opinions of future military display technologies. Paper presented at the 5th Annual Meeting of HPEE, Baltimore, MD: September 2007.
- 466) Hancock, P.A. Principles of stress effects on human performance. Paper presented at the 5th Annual Meeting of HPEE, Baltimore, MD: September 2007.
- 467) Hancock, P.A. The future of HF/E discipline and profession. Paper presented at the 51st Meeting of the Human Factors and Ergonomics Society, Baltimore, MD: October 2007.
- 468) Hancock, P.A. Memories of the past Presidency: The good and the bad. Paper presented at the 51st Meeting of the Human Factors and Ergonomics Society, Baltimore, MD: October 2007.
- 469) Ross, J.M., Szalma, J.L., & Hancock, P.A. Empirical examination of trust in automation across multiple agents in a search and rescue operation. Paper presented at the 51st Meeting of the Human Factors and Ergonomics Society, Baltimore, MD: October 2007.
- 470) Hancock, P.A. The natural and moral philosophy of human factors and ergonomics. Paper presented at the 51st Meeting of the Human Factors and Ergonomics Society, Baltimore, MD: October 2007.
- 471) Covelli, J., Rolland, J., & Hancock, P.A. A quantitative measurement of presence in flight simulators. Paper presented at the Annual Conference of the Inter-service/Industry Training, Simulation and Education Conference. Orlando, FL: November 2007.
- 472) Hancock, P.A. Performance under stress. Paper presented at the Symposium on Sustained Performance under Stress. Austin, TX: December 2007. <http://video.google.com/videoplay?docid=2598540955449487579#>
- 473) Hausen, M., Funke, M.E., Finomore, V.S., Shaw, T.H., Gresham, L., Warm, J.S., Matthews, G., Taylor, P., Szalma, J.L., & Hancock, P.A. Training for Vigilance: Effects on Performance Diagnosticity and Stress. Paper presented at the Southern Society for Philosophy and Psychology. New Orleans, LA: March 2008.
- 474) Hancock, P.A. The state-of-the-art in time perception: The battle for time in the brain. Keynote Address presented at the Conference on the Science and Applications of Perceptual Psychology: Honoring the Career of Dr. Joel S. Warm, Cincinnati, OH: May 2008.
- 475) Hancock, P.A., & Merlo, J. Multimodal signaling communicating through the use of vibro-tactile displays. Paper presented at the Conference on the Science and Applications of Perceptual Psychology: Honoring the Career of Dr. Joel S. Warm, Cincinnati, OH: May 2008.
- 476) Neubauer, C., Merlo, J., Szalma, J., Hancock, P.A., & Jones, D. How close is close enough? Temporal matching between visual and tactile stimuli. Paper presented at the Conference on the Science and Applications of Perceptual Psychology: Honoring the Career of Dr. Joel S. Warm, Cincinnati, OH: May, 2008.
- 477) Murphy, L.L., Smith, K., & Hancock, P.A. A hedonomic evaluation of the effect of repeated system exposure on pleasurable human-system experience. Paper presented at the 52nd Annual meeting of the Human Factors and Ergonomics Society, New York: September, 2008.
- 478) Ross, J.M., Szalma, J.L., Hancock, P.A., Barnett, J.S., & Taylor, G. The effect of automation reliability on user automation trust and reliance in a search-and-rescue scenario. Paper presented at the 52nd Annual meeting of the Human Factors and Ergonomics Society, New York: September 2008.
- 479) Morgan, J.F., Smoker, T.J., Garcia, A.J., & Hancock, P.A. Workload transitions in driving. Paper presented at the 52nd Annual meeting of the Human Factors and Ergonomics Society, New York: September 2008.
- 480) Szalma, J.L., Hancock, P.A., & Thropp, J. Combining spatial and temporal task demands: Effects on performance, workload and stress. Paper presented at the 52nd Annual meeting of the Human Factors and Ergonomics Society, New York: September 2008.
- 481) Merlo, J.L., Gilson, R.D., & Hancock, P.A. Cross-modal congruency benefits for tactile and visual signaling. Paper presented at the 52nd Annual meeting of the Human Factors and Ergonomics Society, New York: September 2008.
- 482) Hancock, P.A. Comments on the issues of product, process and purpose in the emerging arena of human-systems integration. Panel presentation at the 52nd Annual meeting of the Human Factors and Ergonomics Society, New York: September 2008.

- 483) Hancock, P.A., Renfro, M., & Merlo, J.L. On concurrent multi-modal information displays: The question of when in the brain. Paper presented at the Army Research office Workshop on Research Efforts and Future Directions in Neuroergonomics and Neuromorphics. College Park, MD: October 2008.
- 484) Szalma, J.L., Hancock, P.A., & McDonald, D.P. Attitude of military personnel to the challenge of culture: Initial findings. Paper presented at the 7th Biennial Equal Opportunity, Diversity and Culture Research Symposium, DEOMI, Patrick AFB, Cocoa Beach, FL: February 2009.
- 485) Merlo, J.L., & Hancock, P.A. The effect of multi-modal information displays on performance. Paper presented at the 2nd Annual Sustaining Performance Under Stress Symposium. Adelphi, Maryland: February 2009.
- 486) Hancock, P.A. Issues in the assessment of Individual and group performance under extremes of stress. Panel presentation at the West Point Global Leadership Conference on Understanding the Human Dimension in an Era of Persistent Volatility. U.S Military Academy, West Point, New York: March 2009.
- 487) Shahnami, N., Sims, V., & Hancock, P.A. Evolutionary perspectives on the effects of novel stimuli on memory and learning. Paper presented at the 21st Annual Meeting of the Human Behavior and Evolution Society, Fullerton, CA: May 2009.
- 488) Hancock, P.A., Merlo, J.L., Duley, A., & Renfro, M. Concurrent multi-modal information display effects on response capacity. Paper presented at the 117th Annual Convention of the American Psychological Association, Toronto, Canada: August 2009.
- 489) Warm, J.S., Finomore, V., Shaw, T., Funke, M., Hausen, M., Matthews, G., Taylor, P., Vidulich, M., Repperger, D., Szalma, J., & Hancock, P.A. Effects of training with knowledge of results on diagnosticity in vigilance performance. Paper presented at the 53rd Annual Meeting of the Human Factors and Ergonomics Society, San Antonio, TX: October 2009.
- 490) Hancock, P.A. Human Factors in weapons safety: A Commentary. Paper presented at the 53rd Annual Meeting of the Human Factors and Ergonomics Society, San Antonio, TX: October 2009.
- 491) Morgan, J.F., Hancock, P.A., & Smoker, T.J. Cueing to impending increases in driving task demand. Paper presented at the 53rd Annual Meeting of the Human Factors and Ergonomics Society, San Antonio, TX: October 2009.
- 492) Hancock, P.A. Guest reaction on the HF/E show. Presented at the 53rd Annual Meeting of the Human Factors and Ergonomics Society, San Antonio, TX: October 2009.
- 493) Shahnami, N., & Hancock, P.A. Cognitive effects of novelty seeking and exposure: An evolutionary framework. Paper presented at the Cognitive Development Society, San Antonio, TX: October 2009.
- 494) Keellings, D.J., Hancock, G.M., & Hancock, P.A. Perception of time in life. Paper presented at the 46th Annual Meeting of the Florida Society of Geographers, Tampa, FL: January 2010.
- 495) Hancock, P.A., Hancock, G.M., & Keellings, D.J. Psychogeography: The example of the spatial distribution of time in life. Paper presented at the Interdisciplinary Conference on Human Performance, Orlando, FL: March 2010.
- 496) Beidel, E., & Hancock, P.A. Perceptual psychology and the challenge of golf course design. Paper presented at the Interdisciplinary Conference on Human Performance, Orlando, FL: March 2010.
- 497) Hancock, G., Keellings, D., Hood, K., & Hancock, P.A. The influence of personal, physiological, and socio-economic status on the perception of time in life. Paper presented at the Florida Student Conference on Human Factors and Applied Psychology, Daytona Beach, FL: April 2010.
- 498) Brown, C., Clayton, B., Merlo J., & Hancock, P.A. The orientation of visual attention with directional tactile curing. Paper presented at the Florida Student Conference on Human Factors and Applied Psychology, Daytona Beach, FL: April, 2010. (Presented Paper and Poster).
- 499) Hancock, G.M., Keellings, D.J., & Hancock, P.A. Perception of time in life. Paper Presented at the Annual Meeting of the American Psychological Association, San Diego, CA: August. 2010.
- 500) Hancock, P.A. Mind, machine and morality. Paper presented at the Annual Meeting of the American Psychological Association, San Diego, CA: August. 2010. (*This Paper represents the Presidential Address of Division 21: Applied Experimental and Engineering Psychology of the Association*).
- 501) Hancock, P.A. Advances in the theoretical understanding of stress and performance prediction. Paper Presented at the 8th Annual Meeting of the Society for Human Performance in Extreme Environments, San Francisco, CA: September 2010.
- 502) Oleson, K., Billings, D.R., Kocsis, V., Chen, J.Y.C., & Hancock, P.A. Approaches to a meta-analysis of human-robot trust. Paper Presented at the 8th Annual Meeting of the Society for Human Performance in Extreme Environments, San Francisco, CA: September 2010.
- 503) Hancock, P.A., & Drury, C. Pure and Applied – Puerile and Died: Addressing the HF/E of What Really Matters. Paper Presented at the 54th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA: September 2010.

- 504) Hancock, P.A. Hours of Boredom and Moments of Terror. Paper Presented at the 54th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA: September 2010.
- 505) Hancock, P.A. The value of hedonomics in the process of design. Paper Presented at the 54th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA: September 2010.
- 506) Whitmire J., Morgan, J.F., Oron-Gilad, T., & Hancock, P.A. The effect of in-vehicle warning systems on speed compliance in work zones. Paper Presented at the 54th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA: September 2010.
- 507) Rogers, W.A., Beith, B., Duncan, J., Endsley, M., & Hancock, P.A. Facilitating University-Industry collaborations in Human Factors and Ergonomics. Panel Presented at the 54th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA: September 2010.
- 508) Szalma, J.S., & Hancock, P.A. A meta-analytic review of the effects of noise on performance: Moderating effects of task and noise characteristics. Paper Presented at the 54th Annual Meeting of the Human Factors and Ergonomics Society, San Francisco, CA: September 2010.
- 509) Szalma, J.L., & Hancock, P.A. Individual Differences in Response to Automation as a Function of Dispositional Trust. Human Factors and Ergonomics Society Europe Chapter: Annual Meeting. Berlin, Germany: October 2010.
- 510) Szalma, J.L., Teo, G., Hancock, P.A., & Murphy, J.S. Knowledge of Results and Diagnostic Power: Implications for Vigilance Training to Support Improvised Explosive Device Detection. *Human Factors and Ergonomics Society Europe Chapter: Annual Meeting*. Berlin, Germany: October 2010.
- 511) Oleson, K., Billings, D., Kocsis, V., Chen, J., & Hancock, P.A. Human, robot, and environmental characteristics: Antecedents of trust in human-robot team environments. Paper presented at the IEEE Conference on Cognitive Methods in Situation Awareness and Decision Support. Miami, FL: February 2011.
- 512) Kocsis, V., Alesia, M., Billings, D.R., Oleson, K.E., & Hancock, P.A. Occupational stereotypes in human-robot interaction. Paper presented at the Human Factors and Applied Psychology Conference, April, Daytona Beach, FL: 2011.
- 513) Jacobson, C., Oleson, K.E., Szalma, J.L., & Hancock, P.A. Examining the effects of optimism while under stress. Paper presented at the Human Factors and Applied Psychology Conference, Daytona Beach, FL: April 2011.
- 514) Oleson, K.E., Hancock, P.A., Billings, D. R., & Schesser, C. D. Trust in unmanned aerial systems: A synthetic distributed trust model derived from a human-robot trust meta-analysis. Poster presented at the 16th International Symposium on Aviation Psychology, Dayton, OH: May 2011.
- 515) Hancock, P.A. Practitioners and researchers' dialogue. Panel Member (in substitution for Dr. R. Pew). Panel presented at the 16th International Symposium on Aviation Psychology, Dayton, OH: May 2011.
- 516) Hancock, P. A., Billings, D. R., Oleson, K., & Chen, J. Factors impacting development of trust in human-robot teams. Poster presented at the Autonomous Systems Technical Assessment Board (TAB). Aberdeen Proving Ground, MD: July 2011.
- 517) Billings, D.R., Oleson, K.E., Chen, J.Y.C., & Hancock, P.A. Mitigating inappropriate trust in human-robot interactions: A review of trust calibration strategies in the literature. Poster presented at the APA 119th Annual Convention, Washington, D.C.: August 2011.
- 518) Hughes, A.M., Mouloua, M., Hancock, P.A., Szalma, J.L., & Butler, J. Trauma as a predictive factor for performance under stress. Poster presented at the APA 119th Annual Convention, Washington, D.C.: August 2011.
- 519) Sanders, T., Oleson, K.E., Billings, D.R., Chen, J.Y.C. & Hancock, P.A. A model of human-robot trust: Theoretical framework and meta-analysis. Paper presented at the 55th Annual Human Factors and Ergonomics Society Meeting, Las Vegas, NV: September 2011.
- 520) Oleson, K.E., Yordon, R.E., Szalma, J.L., & Hancock, P.A. The evolution of meta-analytic trends: Comparisons across data collection intervals through a specific case context. Paper presented at the 55th Annual Human Factors and Ergonomics Society Meeting, Las Vegas, NV: September 2011.
- 521) Hancock, P.A. The foundations of adaptive automation in physiological theories: A personal retrospective. Paper presented at the 55th Annual Human Factors and Ergonomics Society Meeting, Las Vegas, NV: September 2011.
- 522) Szalma, J.L., Teo, G., Hancock, P.A., & Murphy, J.S. Knowledge of results and diagnostic power: Implications for vigilance training to support improvised explosive device detection. Paper presented at the 55th Annual Human Factors and Ergonomics Society Meeting, Las Vegas, NV: September 2011.
- 523) Billings, D.R., Hancock, P.A., & Schaefer, K. Human-robot trust: Implications for working in extreme environments. Paper presented at the Ninth Annual Meeting of the Society for Human Performance in Extreme Environments, Las Vegas, NV: September 2011.

- 524) Schaefer, K.E., Billings, D.R., & Hancock, P.A. Robots vs. machines: Identifying user perceptions and classifications. Paper presented at the IEEE International Multi-Disciplinary Conference on Cognitive Methods in Situation Awareness and Decision Support (CogSIMA), New Orleans, LA: March 2012.
- 525) Billings, D.R., Schaefer, K.E., Chen, J.Y.C., & Hancock, P.A. Human-robot interaction: Developing trust in robots. Paper submitted to Human-Robot Interaction 2012, the 7th Annual ACM/IEEE International Conference, Boston, MA: March 2012.
- 526) Hancock, P.A. Hours of boredom – Moments of terror: Operator performance under stress. Plenary Keynote Address given at the North American Electric Reliability Corporation Conference on: Improving Human Performance on the Grid, Atlanta, GA: March 2012.
- 527) Hancock, P.A. Bi-directional memory as a string of pearls. Paper presented at the 2012 Interdisciplinary Conference on Human Performance, Howey-in-the-Hills, FL: March 2012.
- 528) Mercado, J., White, T.L., & Hancock, P.A. Effects of automated cue failure in a multi-modal cueing target detection task. Paper presented at the Interdisciplinary Conference on Human Performance, Howey-in-the-Hills, FL: March 2012.
- 529) Sawyer, B.D., & Hancock, P.A. Development of a linked simulation network for multiple driver investigations. Paper presented at the 2012 Interdisciplinary Conference on Human Performance, Howey-in-the-Hills, FL: March 2012.
- 530) Schaefer, K.E., Sanders, T.L., & Hancock, P.A. Human-robot trust. Paper presented at the 2012 Interdisciplinary Conference on Human Performance, Howey-in-the-Hills, FL: March 2012.
- 531) Edwards, E.R., Driksell, L., Sanders, T., Schaefer, K., & Hancock, P.A. Physiological measures may provide insight into measuring human trust in robots. Paper presented at the Human Factors and Applied Psychology Student Conference, Daytona Beach, FL: April 2012.
- 532) Ramalie, R., Hancock, P.A., Sawyer, B.D., Fok, A., Ludvigsen, J., & Solomon, G. Driving downgraded to secondary task management due to GPS operation. Paper presented at the Human Factors and Applied Psychology Student Conference, Daytona Beach, FL: April 2012.
- 533) Hughes, A.M., Mouloua, M., Hancock, P.A., & Szalma, J.L. Trauma and appraisal in performance under stress. Paper presented at the Human Factors and Applied Psychology Student Conference, Daytona Beach, FL: April 2012.
- 534) Ludvigsen, J., Fok, A., Sawyer, B.D., & Hancock, P.A. Priming effects and the simulator sickness questionnaire. Paper presented at the Human Factors and Applied Psychology Student Conference, Daytona Beach, FL: April 2012.
- 535) Nunez, J., Hughes, A., Leavens, J., Higgins, N., & Hancock, P.A. Mitigating the effects of stress and error in extreme environments. An error recovery design approach. Paper presented at the Human Factors and Applied Psychology Student Conference, Daytona Beach, FL: April 2012.
- 536) Leavens, J., Hughes, A., Nunez, J., Higgins, N., & Hancock, P.A. Designing to enhance teamwork in extreme environments. Paper presented at the Human Factors and Applied Psychology Student Conference, Daytona Beach, FL: April 2012.
- 537) Szalma, J.L., Hancock, G.M., Schmidt, T.N., Teo, G., & Hancock, P.A. Sustained attention can be trained using a video game-based task. Paper presented at the American Psychological Society, Chicago, IL: May 2012.
- 538) Hancock, P.A. The context of performance: Unified principles and diverse applications. Senior Lecture presented at the Annual Conference of the North American Society for the Psychology of Sport and Physical Activity. Honolulu, HI: June 2012.
- 539) Teo, G., Hancock, G.M., Schmidt, T.N., Szalma, J.L., & Hancock, P.A. The effects of knowledge of results on vigilance training. Paper presented at the 120th Annual Meeting of the American Psychological Association, Orlando, FL: August 2012.
- 540) Billings, D.R., Schaefer, K.E., Llorens, N., & Hancock, P.A. What is trust? Defining the construct within and across domains. Paper presented at the 120th Annual Meeting of the American Psychological Association, Orlando, FL: August 2012.
- 541) Sanders, T.L., Llorens, N., Billings, D.R., Schaefer, K., Hancock, P.A., Driskell, L., & Long, T. Physiological and behavioral cues: Identifying their potential value in measuring human-robot trust. Paper presented at the 120th Annual Meeting of the American Psychological Association, Orlando, FL: August 2012.
- 542) Schmidt, T.N., Teo, G.W., Hancock, G.M., Szalma, J.L., & Hancock, P.A. IED Detection under alerted conditions in a video-game-based environment using a two-alternative forced choice task. Paper presented at the 120th Annual Meeting of the American Psychological Association, Orlando, FL: August 2012.
- 543) Hancock, P.A. Advances on stress theory: The inverted-U as a subcase of the extended-U. Paper presented at the 120th Annual Meeting of the American Psychological Association, Orlando, FL: August 2012.

- 544) Sawyer, B.D., Fok, A.W., Ludvigsen, J.A., & Hancock, P.A. Cybersickness: Dare I speak thy name? Do frequent mentions of simulator sickness increase its incidence. Paper presented at the 120th Annual Meeting of the American Psychological Association, Orlando, FL: August 2012.
- 545) Schafer, K.E., Billings, D.R., Kocsiss, V., Cook, J., Barrera, M., Ferrer, M., & Hancock, P.A. Trust in human-animal interactions: A review of current evidence. Paper presented at the 120th Annual Meeting of the American Psychological Association, Orlando, FL: August 2012.
- 546) Wright, J.L., Sanders, T.L., Cook, J., & Hancock, P.A. Identifying the role of attributions in human perceptions of robots. Paper presented at the 120th Annual Meeting of the American Psychological Association, Orlando, FL: August 2012.
- 547) Ludvigsen, J.A., DeWitt, A., Farinella, M., Ramalie, R., Sawyer, B.D., Fok, A.W., & Hancock, P.A. In-vehicle GPS operation may relegate driving to secondary-task status. Paper presented at the 120th Annual Meeting of the American Psychological Association, Orlando, FL: August 2012.
- 548) Schmidt, T.N., Teo, G.W., Hancock, G.M., Szalma, J.L., & Hancock, P.A. Event rate through a dynamic video-game environment in a vigilance task. Paper presented at the 120th Annual Meeting of the American Psychological Association, Orlando, FL: August 2012.
- 549) Hancock, P.A. Apes of faith: The psychology of self-symbiosis. Paper presented at the 120th Annual Meeting of the American Psychological Association, Orlando, FL: August 2012.
- 550) Szalma, J.L., Hancock, P.A., Teo, G., Schmidt, T., & Hancock, G.M. Reducing the impact of IEDs via vigilance training. Paper presented at the Army Research Institute Invited Meeting, Ft. Benning, GA: September 2012.
- 551) Hancock, P.A. The affective and the effective: The centrality of individual differences in the relationship between subjective and objective reflections of performance. Panel presentation at the 56th meeting of the Human Factors and Ergonomics Society, Boston, MA: October 2012.
- 552) Boyce, M., & Hancock, P.A. The interpenetration of mind and machine. Paper presented at the 56th meeting of the Human Factors and Ergonomics Society, Boston, MA: October 2012.
- 553) Hancock, P.A. Cross-modal sensory cueing as augmentation to human-machine interaction. Panel presentation at the 56th meeting of the Human Factors and Ergonomics Society, Boston, MA: October 2012.
- 554) Schmidt, T.N., Teo, G.W.L., Szalma, J.L., Hancock, G.M., & Hancock, P.A. The effect of video game play on performance in a vigilance task. Paper presented at the 56th meeting of the Human Factors and Ergonomics Society, Boston, MA: October 2012.
- 555) Schaefer, K.E., Sanders, T.L., Yordon, R.E., Billings, D.R., & Hancock, P.A. Classification of robot form: Factors predicting perceived trustworthiness. Paper presented at the 56th meeting of the Human Factors and Ergonomics Society, Boston, MA: October 2012.
- 556) Teo, G., Szalma, J.L., Schmidt, T.N., Hancock, G.M., & Hancock, P.A. Evaluating vigilance in a dynamic environment: methodological issues and proposals. Paper presented at the 56th meeting of the Human Factors and Ergonomics Society, Boston, MA: October 2012.
- 557) Hancock, P.A. Evaluating models of human performance. . Panel presentation at the 56th meeting of the Human Factors and Ergonomics Society, Boston, MA: October 2012.
- 558) Hancock, P.A. Comforting the disturbed and disturbing the comfortable. Panel presentation at the 56th meeting of the Human Factors and Ergonomics Society, Boston, MA: October 2012.
- 559) Hancock, P.A. Is interpersonal trust an appropriate analog for human-robot trust? Panel presentation at the 56th meeting of the Human Factors and Ergonomics Society, Boston, MA: October 2012.
- 560) Schaefer, K.E., Cook, J.G., Adams, J.K., Bell, J., Sanders, T., & Hancock, P.A. Augmented emotion and its remote embodiment: The importance of design from fiction to reality. Paper presented at the 56th meeting of the Human Factors and Ergonomics Society, Boston, MA: October 2012.
- 561) Teo, G., Schmidt, T.N., Szalma, J.L., Hancock, G.M., & Hancock, P.A. The effect of knowledge of results for training vigilance in a video-game-based environment. Paper presented at the 56th meeting of the Human Factors and Ergonomics Society, Boston, MA: October 2012.
- 562) Sawyer, B., & Hancock, P.A. Development of a linked simulation network to evaluate intelligent transportation system vehicle to vehicle solutions. Paper presented at the 56th meeting of the Human Factors and Ergonomics Society, Boston, MA: October 2012.
- 563) Mercado, J. E., White, T., Sanders, T., Wright, J., & Hancock, P.A. Improving performance in an imperfect target detection Simulation through experience. Proceedings of the Conference on Defense and Military Modeling & Simulation (DMMS'12). San Diego, CA: The Society for Modeling and Simulation International, October 2012.

- 564) Bardwell-Owens, A.M., Whitney, J.M., Cook, J.G., Schaefer, K.E., Hancock, P.A. The interpersonal trust debate: Finding the relevance for human-robot interaction. Human Factors and Applied Psychology Conference, Daytona Beach, FL: April 2013.
- 565) Sawyer, B.D., & Hancock, P.A. Research applications of the population user mastery (PSUM) scale. Human Factors and Applied Psychology Conference, Daytona Beach, FL: April 2013.
- 566) White, T.L., Mercado, J.E., Wright, J., Sanders, T., & Hancock, P.A. Human Factors and Applied Psychology Conference, Daytona Beach, FL: April 2013.
- 567) Niederman, E., Price, J., Sawyer, B.D., & Hancock, P.A. Can neatness of dress affect perceived personality? Human Factors and Applied Psychology Conference, Daytona Beach, FL: April 2013.
- 568) Perkins, S., LaBorde, P., Neiderman, E., Sawyer, B.D., & Hancock, A replication of a surprising effect in a priming and simulation sickness study. Human Factors and Applied Psychology Conference, Daytona Beach, FL: April 2013.
- 569) Siler, J., Hinton, D., Ortiz-Diaz, K., Sawyer, B.D., & Hancock, P.A. T9 in a different time. Poster presented at the Human Factors and Applied Psychology Student Conference, Daytona Beach, FL: April 2013.
- 570) Sawyer, B.D., & Hancock, P.A. Performance degradation due to automation in texting while driving. Paper presented at the Biennial Driving Assessment Conference, Sagamore Resort, Lake George, New York: June 2013.
- 571) Hancock, P.A. Human Factors and Ergonomics, Past, present, and future: A personal didactic. Paper presented at the 57th Meeting of the Human Factors and Ergonomics Society, San Diego, CA: October 2013.
- 572) Hancock, P.A. The future of Human Factors. Invited presentation at the President's Forum of the 57th Annual Meeting of the Human Factors and Ergonomics Society, San Diego, CA: October 2013.
- 573) Hughes, A., Mouloua, M., Hancock, P.A., & Szalma, J. What doesn't kill you makes you stronger? A study of appraisal and performance in trauma. Paper presented at the 57th Meeting of the Human Factors and Ergonomics Society, San Diego, CA: October 2013.
- 574) Schmidt, T., Teo, G., Hancock, G., Amicarelle, Z., Szalma, J., & Hancock, P.A. Action video game players and vigilance performance. Paper presented at the 57th Meeting of the Human Factors and Ergonomics Society, San Diego, CA: October 2013.
- 575) Teo, G., Schmidt, T., Szalma, J., Hancock, G., & Hancock, P.A. The effects of feedback in vigilance training on performance, workload, stress and copying. Paper presented at the 57th Meeting of the Human Factors and Ergonomics Society, San Diego, CA: October 2013.
- 576) Wright, J., Sanders, T., & Hancock, P. A. Identifying the role of attributions in human perceptions of robots. Paper presented at the 57th Meeting of the Human Factors and Ergonomics Society, San Diego, CA: October 2013.
- 577) Walker, J.A., McPeak, B., Perkins, S., Fishburn, D., Tungate, A., Stafford, S., Sawyer, B.D., & Hancock, P.A. The impact of event labeling in the context of weapon discrimination. Paper presented at Florida International University's Florida Undergraduate Research Conference, Miami, FL: February 2014.
- 578) Siler, J., Niederman, E., Sawyer, B.D., & Hancock, P.A. Braking the chain: A Brake light impact prevention system. Paper presented at the 60th Annual Meeting of the Southeastern Psychological Association, Nashville, TN: March 2014.
- 579) Niederman, E., Siler, J., Diaz, D., Sawyer, B.D., & Hancock, P.A. Texting with your Own phone does not improve driving Performance. Paper presented at the 60th Annual Meeting of the Southeastern Psychological Association, Nashville, TN: March 2014.
- 580) Walker, J., McPeak, B., Perkins, S., Fishburn, D., Tungate, A., Stafford, S., Sawyer, B.D., & Hancock, P.A. Event labeling in the context of weapon discrimination. Paper presented at the 60th Annual Meeting of the Southeastern Psychological Association, Nashville, TN: March 2014.
- 581) Sanders, T., Wixon, T., Schaefer, K., Chen, J., & Hancock, P.A. The influence of modality and transparency on trust in human-robot interaction. Paper presented at the IEEE CogSIMA Conference, San Antonio, TX: March 2014.
- 582) Hancock, P.A. Prospective and retrospective memory: Handmaids of delusion. Paper presented at the Interdisciplinary Conference on Human Performance, Orlando, FL: March 2014.
- 583) Walker, J.A., Perkins, S., Sawyer, B.D., Hancock, P.A. Placement of faceLAB5 Eye Tracking Equipment. Paper presented at the University of Central Florida Showcase of Undergraduate Research, Orlando, FL: April 2014.
- 584) Diaz, D.A., Walker, J.A., Finomore, V., Funke, G., Sawyer, B.D., & Hancock, P.A. Personality impact on Vigilance Performance. Poster presented at the University of Central Florida Showcase of Undergraduate Research Excellence, Orlando, FL: April 2014.

- 585) Niederman, E., Diaz, D., Siler, J., Sawyer, B. D., & Hancock, P. A. Driving Performance While Texting Does Not Improve By Using a Familiar Phone. Poster presented at the Showcase of Undergraduate Research Excellence at the University of Central Florida, Orlando, FL: April 2014.
- 586) Hester, M., Yi, I., Andrade, C., Wright, J.L., & Hancock, P.A. The role of scenic contextual information in resolving ambiguous attributes in robots. Paper presented at the Human Factors and Applied Psychology Conference, Embry-Riddle University, Daytona Beach, FL: April 2014.
- 587) MacArthur, K.R., Greenstein, S., Sawyer, B.D., & Hancock, P.A. Mastering Google Glass. Paper presented at the Human Factors and Applied Psychology Conference, Embry-Riddle University, Daytona Beach, FL: April 2014.
- 588) Schafer, K.E., Sanders, T.L., & Hancock, P.A. The influence of modality and transparency on trust in human-robot interaction. Paper presented at the Human Factors and Applied Psychology Conference, Embry-Riddle University, Daytona Beach, FL: April 2014.
- 589) Walker, J.A. Diaz, D., Sawyer, B.D., Finomore, V., Funke, G., & Hancock, P.A. Can you think through the boredom? An examination of executive functioning in cybernetic vigilance tasks. Paper presented at the Human Factors and Applied Psychology Conference, Embry-Riddle University, Daytona Beach, FL: April 2014.
- 590) White, T.L., Wright, J., Sanders, T., & Hancock, P.A. Trust in cross-modal sensory cueing in an unreliable automation. Paper presented at the Human Factors and Applied Psychology Conference, Embry-Riddle University, Daytona Beach, FL: April 2014.
- 591) Siler, J., Sawyer, B.D., Stafford, S., & Hancock, P.A. Driving simulation: Ecological validation and participant perception. Paper presented at the Human Factors and Applied Psychology Conference, Embry-Riddle University, Daytona Beach, FL: April 2014.
- 592) Sawyer, B.D., Calvo, A., & Hancock, P.A. Evaluating Google Glass by building serendipity in simulation. Paper presented at the Human Factors and Applied Psychology Conference, Embry-Riddle University, Daytona Beach, FL: April 2014.
- 593) Timms, A., Sawyer, B.D., & Hancock, P.A. Developing data collection software for driving simulation. Paper presented at the Human Factors and Applied Psychology Conference, Embry-Riddle University, Daytona Beach, FL: April 2014.
- 594) Sawyer, B.D., Finomore, V., Funke, G., & Hancock, P.A. Are cyber tasks examples of vigilant attention? Paper presented at the Human Factors and Applied Psychology Conference, Embry-Riddle University, Daytona Beach, FL: April 2014.
- 595) Kessler, T., Szalma, J., Sanders, T., & Hancock, P.A. Social networking, and users: The interaction of personality and motivation to post. Paper presented at the 122nd Annual Convention of the American Psychological Association, Washington, DC: August 2014.
- 596) Schafer, K., Sanders, T.L., & Hancock, P.A. Hostile attribution bias in road rage. Paper presented at the 122nd Annual Convention of the American Psychological Association, Washington, DC: August 2014.
- 597) Sanders, T.L., Wixon, T.E., & Hancock, P.A. Usability in environmental technologies. Paper presented at the 122nd Annual Convention of the American Psychological Association, Washington, DC: August 2014.
- 598) Wild, T., Sanders, T.L., & Hancock, P.A. Effect of time limits and informed difficulty on performance and workload. Paper presented at the 122nd Annual Convention of the American Psychological Association, Washington, DC: August 2014.
- 599) Dunfee, M.S., Sanders, T.L., & Hancock, P.A. A comparison of bystander and team member distance in human-robot interaction. Paper presented at the 122nd Annual Convention of the American Psychological Association, Washington, DC: August 2014.
- 600) MacArthur, K., Greenstein, S.R., Sawyer, B.D., & Hancock, P.A. PSUM: Training in Google Glass and Android. Paper presented at the 122nd Annual Convention of the American Psychological Association, Washington, DC: August 2014.
- 601) Sawyer, B. D., Finomore, V.S., Funke, G.J., Warm, J.S. & Hancock, P. A. (2014). Vigilance in Cyber Defense: A Strategy and Individual Differences Based Approach. Paper presented at the 122nd Annual Convention of the American Psychological Association, Washington, DC: August 2014.
- 602) Lewis, B.A., Baldwin, C L., Chrysler S.T., Foley J.P., Hancock, P.A., & Klauer S.G. Transportation in an age-diverse society. Paper Presented at the 58th Meeting of the Human Factors and Ergonomics Society, Chicago, IL: October 2014.
- 603) Brill, J.C., Lawson, B.D., Durso, F.T., Hancock, P.A., & Shappell, S. Human factors as both the embodiment and potential solution to a broken system of science. . Paper Presented at the 58th Meeting of the Human Factors and Ergonomics Society, Chicago, IL: October 2014.
- 604) Teo, G., Schmidt, T., Szalma, J., Hancock, G., & Hancock, P.A. The effects of individual differences on vigilance training and performance in a dynamic vigilance task. . Paper Presented at the 58th Meeting of the Human Factors and Ergonomics Society, Chicago, IL: October 2014.
- 605) Sawyer, B.D., & Hancock, P.A. An evaluation of drivers using an ignition interlock device: Breath tests while driving. . Paper Presented at the 58th Meeting of the Human Factors and Ergonomics Society, Chicago, IL: October 2014.

- 606) Oppold, P., Sanders, T., Kessler, T., Sawyer, B.D., & Hancock, P.A. Human Factors and Ergonomics: Machines in Thought, Minds in Technology Laboratory. Paper Presented at the 58th Meeting of the Human Factors and Ergonomics Society, Chicago, IL: October 2014.
- 607) Hancock, P.A., Oppold, P., Sanders, T., Kessler, T., & Sawyer, B.D. Description of the UCF Human Factors Laboratory and Program Facilities. Paper Presented at the 58th Meeting of the Human Factors and Ergonomics Society, Chicago, IL: October 2014.
- 608) Hancock, P.A. Human Factors and Ergonomics: An on-going personal odyssey. Paper Presented at the 58th Meeting of the Human Factors and Ergonomics Society, Chicago, IL: October 2014.
- 609) Volante, W., Walker, T., Sanders, T., & Hancock, P.A. Navigating qualitative assessments of chance: Quantifying individual perceptions of distinct expressions. Paper presented at the 7th Annual Embry-Riddle University Human Factors and Applied Psychology Conference, Daytona Beach, FL: April 2015.
- 610) Kessler, T., Sanders, T., Chen, J.Y.C., & Hancock, P.A. Robot Autonomy and Malfunction Effects on Trust During Human-Robot Interaction. Paper presented at the 7th Annual Embry-Riddle University Human Factors and Applied Psychology Conference, Daytona Beach, FL: April 2015.
- 611) Walker, J.A., Xanthopoulos, P., Karwowski, W., Hancock, P.A., Sawyer, B. D. Qualitative analysis of event-related potential EEG data. Poster presented at the University of Central Florida's Annual Showcase of Undergraduate Research Excellence, Orlando, FL: April 2015
- 612) Nir, T., Shankle, J., Vermillion, B. Hancock, P.A., & Sawyer B. Driver Distraction Simulation Testbed (Building). Paper presented at the 7th Annual Embry-Riddle University Human Factors and Applied Psychology Conference, Daytona Beach, FL: April, 2015.
- 613) Nir, T., Shankle, J., Stafford, S., Hancock, P.A., & Sawyer, B. Measuring Judgment, Reaction Time, and Reaction Type in Drivers. Paper presented at the 7th Annual Embry-Riddle University Human Factors and Applied Psychology Conference, Daytona Beach, FL: April 2015.
- 614) Walker, J.A., Xanthopoulos, P., Karwowski, W., Hancock, P.A., Sawyer, B.D. Interpreting Electroencephalography Output for Error-Related Negativity. Paper presented at the 7th Annual Embry-Riddle University Human Factors and Applied Psychology Conference, Daytona Beach, FL: April 2015.
- 615) Walker, J.A., Xanthopoulos, P., Karwowski, W., Hancock, P.A., Sawyer, B.D. Qualitative Analysis of Event-Related Potential EEG Data. Paper presented at the 7th Annual Embry-Riddle University Human Factors and Applied Psychology Conference, Daytona Beach, FL: April 2015. [Winner of the Best Undergraduate Research Paper Presentation Award].
- 616) Walker, T., Kessler, T., Sanders, T., Schafer, E., Wild, T., & Hancock, P.A. Establishing Trust in Human Robot-Robot Interaction: The Significance of Social and Personal Distance. Paper presented at the 7th Annual Embry-Riddle University Human Factors and Applied Psychology Conference, Daytona Beach, FL: April 2015.
- 617) Hancock, P.A. Autobiomimesis and our way ahead. Paper presented at the Annual Conference of the Chartered Institute of Ergonomics and Human Factors, Daventry: England, April 2015.
- 618) Hancock, P.A. Automobility: The prospective use of fully automated on-road vehicles. Paper presented at the Annual Conference of the Chartered Institute of Ergonomics and Human Factors, Daventry, England: April 2015.
- 619) Hancock, P.A. Autopia: Our prostitution to automation. Paper presented at the Annual Conference of the Chartered Institute of Ergonomics and Human Factors, Daventry, England: April 2015.
- 620) Ganey, H.C., Hancock, P.A., & Morgan, J. The cognitive effects of long-range and rough-water transit on high-speed craft operators. Paper presented at the Department of Defense Human Factors Engineering Technical Advisory Group (DoD HFE TAG) Meeting 69. Orlando, FL: May 2015.
- 621) Hancock, P.A., Sanders, T., Kessler, T., Schafer, E., & Volante, W. What's a cockpit daddy? Doormen, elevator operators and other extinct species. Paper presented at the 18th International Symposium on Aviation Psychology, Dayton, OH: May 2015.
- 622) Aloaimi, T., Karwowski, W., & Hancock, P.A. Safety climate, safety motivation, employee turnover, and unsafe acts in aircraft maintenance. Paper presented at the 18th International Symposium on Aviation Psychology, Dayton, OH: May 2015.
- 623) Hancock, P.A. Who will fly in the future? Is there a remaining human role in automated flight spaces? Paper presented at the 86th Annual Meeting of the Aerospace Medical Association, Orlando, FL: May 2015.
- 624) Hancock, P.A., Kessler, T., & Chen, J.Y. Human robot interaction: level of information, malfunction, autonomy, and transparency effects on trust. Paper presented at the Army Research Laboratory (ARL), Robotics Collaborative Technology Alliance (RCTA) meeting, University of Pennsylvania, Philadelphia, PA: May 2015.

- 625) Hancock, P.A., Sanders, T., Kessler, T., & Stowers, K. Examinations of interpersonal distance and trust in human robot interaction. Paper presented at the Army Research Laboratory (ARL), Robotics Collaborative Technology Alliance (RCTA) Meeting, University of Pennsylvania, Philadelphia, PA: May 2015.
- 626) De Winter, J., & Hancock, P.A. Reflections on the 1951 Fitts list: Do humans believe now that machines surpass them? Paper presented at the Applied Human Factors and Ergonomics (AHFE) Conference, Las Vegas, NV: July 2015.
- 627) Hancock, P.A. Revivifying vigilance: A recognition of the life and contribution of Raja Parasuraman. Paper presented at the 59th Annual Meeting of the Human Factors and Ergonomics Society, Los Angeles, CA: October 2015.
- 628) Hancock, P.A. The effects of affects. Paper presented at the 59th Annual Meeting of the Human Factors and Ergonomics Society, Los Angeles, CA: October 2015.
- 629) Leis, R., Reinerman-Jones, L.E., Mercado, J., Szalma, J.L., & Hancock, P.A. Workload change over time for Nuclear Power Plant operation tasks. Paper presented at the 59th Annual Meeting of the Human Factors and Ergonomics Society, Los Angeles, CA: October 2015.
- 630) Walker, T., Sanders, T., Kessler, T., Sawyer, B., Stowers, K., Volante, W., MacArthur, K., Li, S., & Hancock, P.A. Human Factors and Ergonomics: Minds in Technology: Machines in Thought Laboratory. Paper presented at the 59th Annual Meeting of the Human Factors and Ergonomics Society, Los Angeles, CA: October 2015.
- 631) Hancock, P.A., et al. Human Factors and Ergonomics: A personal odyssey. Paper presented at the 59th Annual Meeting of the Human Factors and Ergonomics Society, Los Angeles, CA: October 2015.
- 632) Sanders, T.L., Volante, W., Stowers, K., & Kessler, T. The influence of robot form on trust. Paper presented at the 59th Annual Meeting of the Human Factors and Ergonomics Society, Los Angeles, CA: October 2015.
- 633) White, T.L., Wright, J.L., Mercado, J., Sanders, T.L., & Hancock, P.A. Trust in multimodal sensory cueing automation in a target detection task. Paper presented at the 59th Annual Meeting of the Human Factors and Ergonomics Society, Los Angeles, CA: October 2015.
- 634) Gutzwiller, R.S., Fugate, S., Sawyer, B.D., & Hancock, P.A. The human factors of cyber network defense. Paper presented at the 59th Annual Meeting of the Human Factors and Ergonomics Society, Los Angeles, CA: October 2015.
- 635) Mykoniatis, K., Angelopoulou, A., , Soyler-Akbas, A., & Hancock, P.A. Multi-method modeling and simulation of a face detection robotic system. Paper presented at the IEEE International Systems Conference (SysCon), Orlando, FL: April 2016.
- 636) Walker, J.A., Sawyer, B.D., Hancock, G.M., Karwowski, W., Sims, V.K., Hancock, P.A. Individual differences in working memory capacity and the role they play in performance on a feedback v. no feedback vigilance task. Poster presented at Tampa University's Florida Undergraduate Research Conference, Tampa, FL: February 2016.
- 637) Hancock, P. A., Kessler, T., MacArthur, K. R., & Stowers, K. Trust in human-robot interaction: Current findings and future investigations. Paper presented at the Annual Research Management Board Meeting of the Army Research Laboratories: Robotics Collaboration Technological Alliance, Aberdeen Proving Grounds, MD: February 2016.
- 638) Volante, W., Stowers, K., & Hancock, P.A. Workload schedules tools for long duration space missions. Paper presented at the NASA Investigators' Workshop on Frontiers in Human Space Exploration Research, Galveston, TX: February 2016.
- 639) Leibowitz, N., Hancock, P.A., Stowers, K., Stawicki, J., Doriety, A. The relationship between color and trust when building a trustworthy robot. Paper presented at the Showcase of Undergraduate Research Excellence, Orlando, FL: April 2016.
- 640) Walker, J.A., Hancock, G.M., Sawyer, B.D., Karwowski, W., Sims, V.K., Hancock, P.A. An examination of individual differences in the context of vigilance. Poster presented at the University of Central Florida's Annual Showcase of Undergraduate Research, Orlando, FL: April 2016.
- 641) Walker, J.A., Hancock, G.M., Sims, V.K., Hancock P.A. Human factors of leadership: What the Tenerife plane crash taught the world about cockpit leadership dynamics. Paper presented at the 10th Annual Conference on Human Factors and Applied Psychology, Daytona Beach, FL: April 2016.
- 642) Reardon, A., Volante, W., Sanders, T., & Hancock, P.A. Using implicit associations to reveal hidden biases toward robots. Paper presented at the 10th Annual Conference on Human Factors and Applied Psychology, Daytona Beach, FL: April 2016.
- 643) Van Lue, L., & Hancock, P.A. Psychophysiological response and perceived workload when working with adaptive automation. Paper presented at the 10th Annual Conference on Human Factors and Applied Psychology, Daytona Beach, FL: April 2016.
- 644) Hancock, P.A., Walker, T., Yerdon, V., Volante, W., Li, S.L., & Hancock, G.M. Accident events in automated vehicles. Paper presented at the 10th Annual Conference on Human Factors and Applied Psychology, Daytona Beach, FL: April 2016.

- 645) Volante, W., Sanders, T., Reardon, A., & Hancock, P.A. Do you know if you trust a robot? Influences that mediate implicit and explicit trust. Paper presented at the 10th Annual Conference on Human Factors and Applied Psychology, Daytona Beach, FL: April 2016.
- 646) Somerville, D., Volante, W., Sanders, T., & Hancock, P.A. The influence of appearance in human-robot interaction selection. Paper presented at the 10th Annual Conference on Human Factors and Applied Psychology, Daytona Beach, FL: April 2016.
- 647) Hancock, P.A. Transforming expertise. Paper presented at the USGIF, Geoint Symposium, Orlando, FL: May 2016.
- 648) Kessler, T., MacArthur, K., Chen, J., & Hancock, P.A. Trust in human-robot interaction. Paper presented at the RCTA Robotics and HRI Program Review Meeting, Philadelphia, PA: May 2016.
- 649) Stowers, K., Hancock, P.A., & Volante W.G. Human perception of robot appearance. Robotics Collaborative Technology Alliance (RCTA) Program Review Meeting. Philadelphia, PA: May 2016.
- 650) Wright, J.L., Chen, J.Y.C., Barnes, M.J., & Hancock, P.A. Transparency in human-agent teaming. Paper presented at the Robotics Collaborative Technology Alliance (RCTA) Program Review Meeting. Philadelphia, PA: May 2016.
- 651) Hancock, P.A. Motorcycle conspicuity and the potential for warning of impending collision. Paper presented at the 7th Annual International Conference on Applied Human Factors and Ergonomics, Orlando, FL: July 2016.
- 652) Kessler, T., Larios, C., Yerdon, V., Walker, T., & Hancock, P.A. A comparison of trust measures in human robot interaction scenarios. Paper presented at the 7th Annual International Conference on Applied Human Factors and Ergonomics, Orlando, FL: July 2016.
- 653) Yerdon, V.A., Marlowe, T.A., Volante, W.G., Li, S., & Hancock, P.A. Investigating cross-cultural differences in trust levels of autonomous automation. Paper presented at the 7th Annual International Conference on Applied Human Factors and Ergonomics, Orlando, FL: July 2016.
- 654) Hancock, P.A. A brief overview of some possible HF/E contributions to cybersecurity. Paper presented at the 60th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC: September 2016.
- 655) Hancock, P.A. Macro-ergonomics and sustainability. Paper presented at the 60th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC: September 2016.
- 656) Kaplan, A., Walker, T., Sanders, T., Kessler, T., Stowers, K., Volante, W., MacArthur, K., & Hancock, P. A. Minds in Technology-Machines in Thought (MIT2) Laboratories. Paper presented at the 60th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC: September 2016.
- 657) Hancock, P.A. Human Factors and Ergonomics: A continuing odyssey. Paper presented at the 60th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC: September 2016.
- 658) Hancock, P.A. Fatigue and vigilance: Differences and commonalities. Paper presented at the 60th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC: September 2016.
- 659) Volante, W., Sanders, T., Dodge, D., Yerdon, V., & Hancock, P.A. Specifying influences that mediate trust in human robot interaction. Paper presented at the 60th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC: September 2016.
- 660) Sanders, T., Schafer, E., Volante, W., Reardon, A., & Hancock, P.A. Implicit attitudes toward robots. Paper presented at the 60th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC: September 2016.
- 661) Wright, J.L., Chen, J.Y.C., Barnes, M.J., & Hancock, P.A. The effect of agent reasoning on automation bias: An analysis of performance. Paper presented at the 60th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC: September 2016.
- 662) Hancock, P.A. Just bad manners: Acceptable response from human and machine. Paper presented at the 60th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC: September 2016.
- 663) Volante, W., Merz, M., Stowers, K., & Hancock, P.A. Sleep, workload and boredom: Subject matter expert insights. Paper presented at the 60th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC: September 2016.
- 664) Hancock, P.A. Designing limits to autonomous systems. Paper presented at the 60th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC: September 2016.
- 665) Hancock, P.A. Kracking the Kraken of Kontextual Komplexity: Exploring fundamental limits of transfer. Paper presented at the 60th Annual Meeting of the Human Factors and Ergonomics Society, Washington, DC: September 2016.

- 666) Kessler, T., MacArthur, K.R., Trujillo-Silva, M., MacGillivray, T.G., Ripa, C., & Hancock, P.A. The effects of planned versus unplanned malfunctions on trust in human-robot interaction. Paper presented at the Psychonomic Society 57th Annual Meeting, Boston, MA: November 2016.
- 667) Hancock, P.A. Technology, and the future of the game. Paper presented at the NFL Players' Association Pro-Bowl Health Symposium. Orlando, FL: January 2017.
- 668) Hancock, P.A., & Hancock, G.M. Zero-time theory: Implications of the phenomenological super-symmetricality of sentience in space-time. Paper presented at the Inter-Disciplinary Conference on Human Performance. Port St. Lucie, FL: March 2017.
- 669) Hancock, P.A., Stowers, K.L., & Kessler, T.T. Can you trust your robot? Paper presented at the Inter-Disciplinary Conference on Human Performance. Port St. Lucie, FL: March 2017.
- 670) Hancock, P.A., Kaplan, A.F., Stowers, K., Kessler, T., Sanders, T., Volante, W., MacArthur, K.R., & Brill, J.C. Trust in automation and autonomy: A growing challenge for aviation operations. Paper presented at the 19th International Symposium on Aviation Psychology, Dayton, OH: May 2017.
- 671) Koch, R., Sanders, T.L., Reardon, A., Schafer, K.E., & Hancock, P.A. Implicit vs explicit measures of trust in human-robot interaction. Paper presented at the Association for Psychological Science Annual Meeting, Boston, MA: May, 2017.
- 672) Mouloua, S.A., Mouloua, M., Hancock, P.A., McConnell, D.S. Psychophysiological correlates of language processing and handedness. Paper presented at the 65th Intel International Science and Engineering Fair. May 2017. Los Angeles, CA. (**Honorable Mention Award**).
- 673) MacArthur, K.R., Shugars, W.T., Sanders, T., Hancock, P.A. Effects of anthropomorphism on trust in human-robot interaction. Paper presented at the 125th Annual Meeting of the American Psychological Association, Washington D.C.: August 2017.
- 674) MacGillivray, T.G., Sanders, T.L., & Hancock, P.A. The effect of pre-existing gender bias on human-robot trust and user expectation. Paper presented at the American Psychological Association Annual Meeting, Washington D.C.: August 2017/
- 675) Sanders, T.L., Koch, R., LaFlamme, S., Somerville, D. & Hancock, P.A. Trust in robotics in physically disabled populations. Paper presented at the American Psychological Association Annual Meeting, Washington D.C.: August 2017.
- 676) Reardon, A., Volante, W., Sanders, T., & Hancock, P. A. Exploring the correlation between explicit and implicit attitudes towards robots. Paper presented at the American Psychological Association Annual Meeting, Washington D.C.: August 2017.
- 677) Mouloua, S.A., Mouloua, M., Hancock, P.A., McConnell, D.S. (2017). Psychophysiological correlates of language processing and handedness. Paper presented at 2017 UCF Summer Research Academy. Orlando, FL. August 2017. Orlando, FL.
- 678) Kessler, T., Stowers, K., Brill, J.C., & Hancock, P.A. Comparisons of human-human trust with other forms of human-technology trust. Paper Presented at the Annual Meeting of the Human Factors and Ergonomics Society Austin, TX: October 2017.
- 679) Wright, J., Chen, J., Barnes, M., & Hancock, P.A. The effect of agent reasoning transparency on complacent behavior: An analysis of eye movements and response performance. Paper Presented at the Annual Meeting of the Human Factors and Ergonomics Society Austin, TX: October 2017.
- 680) Hancock, P.A., Volante, W.V., & Lau, M. Quantifying qualitative probabilities: A cross-cultural examination. Paper Presented at the Annual Meeting of the Human Factors and Ergonomics Society Austin, TX: October 2017.
- 681) Kaplan, A.D., Sanders, T.A., & Hancock, P.A. The influence of extroversion on the tendency to anthropomorphize robots. Paper Presented at the Annual Meeting of the Human Factors and Ergonomics Society Austin, TX: October 2017.
- 682) Teo, G., Reinerman-Jones, L.E., Matthews, G., Szalma, J.L., Jentsch, F., Hudson, I., & Hancock, P.A. (2017). Selecting workload and stress measures for specific performance outcomes. Paper Presented at the Annual Meeting of the Human Factors and Ergonomics Society Austin, TX: October 2017.
- 683) Sanders, T.L., MacArthur, K., Volante, W., Hancock, G., MacGillivray, T., Shugars, W., & Hancock, P.A. (2017). Trust and prior experience in human-robot interaction. Paper Presented at the Annual Meeting of the Human Factors and Ergonomics Society Austin, TX: October 2017.
- 684) Mouloua, S.A., Mouloua, M., Hancock, P.A., McConnell, D., & Bedwell, J. The Effects of computer user handedness on a mouse-clicking task. Paper Presented at the Annual Meeting of the Human Factors and Ergonomics Society Austin, TX: October 2017.
- 685) Hancock, P.A. Some remarks upon the passing of Joel S. Warm. Paper Presented at the Annual Meeting of the Human Factors and Ergonomics Society Austin, TX: October 2017.
- 686) Volante, W., Kessler, T., Kaplan, X., MacArthur, K.R., Cruik, J., Walker, T., Yerdon, V., & Hancock, P.A. Minds in Technology, Machine in Thought Laboratories. Paper Presented at the Annual Meeting of the Human Factors and Ergonomics Society Austin, TX: October 2017.

687) Hancock, P.A., Lau, M., Kessler, T., & Volante, W. Human Factors and Ergonomics: An on-going odyssey. Paper Presented at the Annual Meeting of the Human Factors and Ergonomics Society Austin, TX: October 2017.

688) Sawyer, B.D., & Hancock, P.A. Hacking the human: The prevalence paradox in cybersecurity. Paper Presented at the Annual Meeting of the Human Factors and Ergonomics Society Austin, TX: October 2017.

689) Volante, W., Cruit, J., Tice, J., Shugars, W., & Hancock, P.A. Examining time distortion in virtual environments. Paper presented at the 15th Annual Graduate Research Forum, University of Central Florida, Orlando, FL, April 2018.

690) Clapp, S.R., Uszak, N., Olcum, E., & Hancock, P.A. Designing for flow: Creating immersive work experiences. Paper presented at the IISE Annual Conference, Orlando, FL, May 2018. (*Winner, Best Paper Award in Human Factors and Ergonomics, at the 2018 Conference*).

691) Yeardon, V., & Hancock, P.A. Cognitive effects of modern apathy on privacy, security, and trust. Paper Presented at the Applied Human Factors and Ergonomics Conference, Orlando, July 2018.

692) Mouloua, A. S. & Mouloua, M., Hancock, P.A., and McConnell, D.S. The Effects of Computer User Handedness on a Mouse-Clicking Task. Paper presented at the 126th Annual Convention of the American Psychological Association. San Francisco, CA, August 2018.

693) Hancock, P.A. What future for employment in Psychology? Panel presentation at the 126th Annual Convention of the American Psychological Association. San Francisco, CA, August 2018.

694) Hancock, P.A. Emergent properties deserve no privilege: Is there any practical utility to a concept of consciousness? Keynote Speech presented at the 126th Annual Convention of the American Psychological Association. San Francisco, CA, August 2018.

695) Hancock P.A. Invited participant: Mentor game. At the Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, October 2018.

696) Volante, W., Garcia, M., & Hancock, P.A. Sharpening the toll of language: Examining anchors and ambiguity. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, October 2018.

697) Mouloua, S., Ferraro, J., Mouloua, M., & Hancock, P.A. Trend analysis of unmanned aerial vehicles (UAVS) research published in the HFES Proceedings. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, October 2018.

698) Mouloua, S., Mouloua, M., McConnell, D., & Hancock, P.A. The effects of handedness and dominance on motor task performance. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, October 2018.

699) Hancock, P.A., Diaz, Y., Kessler, T., & Volante, W. Human Factors and Ergonomics: An on-going odyssey. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, October 2018.

700) Hidalgo, M., Cruit, J., Yeardon, V., & Hancock, P.A. Optimizing cognitive performance during vigilance through flow enhancements. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, October 2018.

701) Diaz, Y., Volante, W., Kessler, T., Kaplan, X., MacArthur, K., Cruit, J., Yeardon, V., & Hancock, P.A. Minds in Technology, Machine in Thought Laboratories, Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, October, 2018.

702) Hancock, P.A. Prevention of violence in schools. (Session Moderator). At the Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, October 2018.

703) Kaplan, A., Kessler, T., Brill, J.C., & Hancock, P.A. Individual differences in trust: An examination of precursors to trust in human interactions with automation, robotics and other humans. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, October 2018.

704) Hancock, P.A. The Janus face of autonomy. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, October 2018.

705) Volante, W., Cruit, J., Tice, J., Shugars, W., & Hancock, P.A. Time flies: Investigating duration judgments in virtual reality. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Philadelphia, October 2018.

706) Teo, G., Reinerman-Jones, L., Matthews, G., Szalma, J., Jentsch, F., Hudson, I., & Hancock, P.A. Predicting task-induced state changes in a multitasking environment from personality factors. Proceedings of the 62nd Human Factors and Ergonomics Society Meeting, Philadelphia, PA, October 2018.

- 707) Cruit, J., Volante, W., Hancock, P.A. (2018). Exploring differences in expert and novice drivers using the critical decision method in order to design effective training measures. Paper presented at the 59th Psychonomic Society Annual Meeting, New Orleans, LA., November 2018.
- 708) Kessler, T.T., Kaplan, A.D., Brill, J.C., & Hancock, P.A. Framing experimental results for maximum utility. Paper Presented at the 59th Psychonomic Society Annual Meeting, New Orleans, LA, November 2018.
- 709) Kaplan, A.D., Kessler, T.T., Brill, J.C., & Hancock, P.A. Investigating human-human trust: The under-representation of experimental psychology. Paper presented at the 59th Psychonomic Society Annual Meeting, New Orleans, LA, November 2018.
- 710) Volante, W.G., Cruit, J., Tice, J., Shugars, W., & Hancock, P.A. Exploring time distortion in virtual reality. Paper Presented at the 59th Psychonomic Society Annual Meeting, New Orleans, LA, November 2018.
- 711) Hancock, P.A., & Volante, W.G. Quantifying the qualities of language. Paper presented at the Interdisciplinary Conference on Human Performance, Orlando, FL, March 2019.
- 712) Jordan A. Sasser, J.A. (with Hancock, P.A., & McConnell, D.S), Is perceived intentionality influenced by kinematics? Paper presented at the UCF Undergraduate Research Fair, April 2019. [Award Winning Paper].
- 713) Alves, G.M. (with McConnell, D.S., & Hancock, P.A.). Can crime shows help you get away with crime? Paper presented at the UCF Undergraduate Research Fair, April 2019. [Award Winning Paper].
- 714) Merwin, E., Kaplan, A., & Hancock, P.A. The human perspective on consent with robots as sexual partners. Paper presented at the UCF Undergraduate Research Fair, April 2019.
- 715) Perez, A., Hidalgo, M., Lediaeva, I., Mouloua, M., & Hancock, P.A. Considerations for the usability and implementation of augmented reality in the production environment. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Seattle, WA, October 2019.
- 716) Hancock, P.A., Hancock, G., Sellen, A., Lee, J., Sawyer, B., Sheridan, T., Milgram, P., & Sanderson, P. The life and legacy of Professor John Senders. Session Presented at the Annual Meeting of the Human Factors and Ergonomics Society, Seattle, WA, October 2019.
- 717) Kaplan, A.D., Cruit, J., Endsley, M., Beers, S.M., Sawyer, B.D., & Hancock, P.A. (2019). Transfer of training from virtual reality and augmented reality: A Meta-Analysis. Paper resented at the Annual Meeting of the Human Factors and Ergonomics Society, Seattle, WA, October 2019.
- 718) Waterson, P., Baber, C., Golightly, D., Hancock, P.A., Morineau, T., Guastello, S.J., Wiltshire, T.J., Karwowski, W., & Drury, C.G. The cybernetic return in Human Factors/Ergonomics. Panel Presentation at the Annual Meeting of the Human Factors and Ergonomics Society, Seattle, WA, October 2019.
- 719) Kaplan, A.D., Cruit, J., Endsley, M., Beers, S.W., Sawyer, B.D., & Hancock, P.A. Transfer of Training from Virtual Reality and Augmented Reality: A Meta-Analysis. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Seattle, WA, October 2019.
- 720) Hancock, P.A. What Can HF/E Do to Resolving Global Warming? Paper presented in the "*Past Presidents Forum: Future Challenges in Human-Agent Teaming and Disruptive Technologies.*" at the Annual Meeting of the Human Factors and Ergonomics Society, Seattle, WA, October 2019.
- 721) Hancock, P.A. (with W. Volante). Humans and machines: Their past, present, and future. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Seattle, WA, October 2019.
- 722) Volante, W., Kessler, T.T., Xan Kaplan, A.D., MacArthur, K.R., Cruit, J., & Hancock, P.A. The Mind in Technology, Machines in Thought Laboratory. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Seattle, WA, October 2019.
- 723) Yeardon, V.A., & Hancock, P.A. Cognitive effects of modern apathy towards privacy, security, and trust. Paper presented at the CyberTRAInSitions Conference at IITSEC, December 2019.
- 724) Volante, W.V., & Hancock, P.A. Social conformity in human-robot interaction. Paper presented at the Human Factors and Applied Psychology Conference, Orlando, FL, January 2020.
- 725) Cruit, J., Bockelman, P., & Hancock, P.A. Redefining resiliency using principles of social cognitive theories to address the gap in training and assessing resiliency for Air Carrier Operations. Paper presented at the National Training Aircraft Symposium, Perspectives: A Vision into the Future of Aviation, Daytona Beach, March 2020.
- 726) Shupsky, T.E., Morales, K., Baldwin, C., Hancock, P.A., Horrey, W.J., Greenlee, E., & Klauer, C. Secondary task engagement while driving: Friend or foe? Paper Presented at the 64th Annual Meeting of the Human Factors and Ergonomics Society, Chicago (Virtual), October 2020.

727) Mouloua, S.A., Bohil, C., McConnell, D., & Hancock, P.A. . Draining the brain: The effects of four fatigue domains on executive function and prefrontal cortex. Paper Presented at the 64th Annual Meeting of the Human Factors and Ergonomics Society, Chicago (Virtual), October 2020. *Winner: Best Student Paper Award, Perception and Performance Technical Group.*

728) Sasser, J., Montalvo, F., Bendell, R., Hancock, P.A., & McConnell, D.S. Exploring the effect of virtual robot acceleration on perceived competitiveness, cooperativeness, animacy, and intelligence. Paper Presented at the 64th Annual Meeting of the Human Factors and Ergonomics Society, Chicago (Virtual), October 2020.

729) Kaplan, A.D., Kessler, T.T., & Hancock, P.A. How trust is defined and its use in human-human and human-machine interaction. Paper Presented at the 64th Annual Meeting of the Human Factors and Ergonomics Society, Chicago (Virtual), October 2020.

730) MacArthur, K., & Hancock, P.A. University of Central Florida: Minds in Technology -- Machines in Thought (MIT2) Laboratory. Paper Presented at the 64th Annual Meeting of the Human Factors and Ergonomics Society, Chicago (Virtual), October 2020.

731) Diaz, Y., Cruit, J., Alexandra, K., Kochan, J., Gruber, M., Pruchnicki, S., and Hancock, P. A. (2021). Training Resilience in Aviation Systems: A Literature Review. Paper Presented at the 2021 International Symposium on Aviation Psychology, Virtual, April 2021.

732) Ball, R.V., Miller, D.B., Camargo Macias, K., Ibrahim, M., Robalino Gonzaga, E., Karasik, O., Rohlsen-Neal, D.R., Ross, E.A., Hughes, A.M., Hancock, P.A., & Sawyer, B.D. Physicians, and their Patience: Redefining Healthcare Relationships through Readability Optimization. Poster to be presented at the 10th HFES International Symposium on Human Factors and Ergonomics in Health Care. Virtual conference due to COVID-19 (International). April 2021.

733) Hancock, P.A. Reflections, and advisement from the current President. Presentation as part of the President's Panel to the Student Membership at the 65th Annual Meeting of the Human Factors and Ergonomics Society, Baltimore, MD, October 2021.

734) Hancock, P.A. Quintessential solutions to existential challenges. Presidential Address to the 65th Annual Meeting of the Human Factors and Ergonomics Society, Baltimore, MD, October 2021.

735) Gruber, M.E., Cruit, J., Kochan, J.A., Arias, H., Diaz, Y., Pruchnicki, S., & Hancock, P.A. Identifying and Categorizing Positive Behaviors in Unexpected, Good Outcome Events in Aviation. Paper presented at the 65th Annual Meeting of the Human Factors and Ergonomics Society, Baltimore, MD, October 2021.

736) Hancock, P.A. The future of robotics and AI. Panel presentation at the Ergo-X Meeting, Human Factors in Robotics in the Age of Artificial Intelligence: Challenges and Opportunities. (Virtual), November 2021.

737) Hancock, P.A., Newell, K.M., & Hancock, G.M. Fissures, and flaws in the foundations of Fitts Law: The movement speed-accuracy trade-off in context. Paper presented at the 50th Annual Meeting of the North American Society for the Psychology of Sport and Physical Activity, Hawaii, May 2022.

738) Mouloua, S., McConnell, D., & Hancock, P.A. Fatigue, or facilitation following an extended Fitts task. Paper presented at the 50th Annual Meeting of the North American Society for the Psychology of Sport and Physical Activity, Hawaii, May 2022.

739) Mouloua, S.A., McConnell, D.S., & Hancock, P.A. Revising resource theory: Waves of energy in an ocean of resources. Paper presented at the 4th Neuroergonomics and NYC Neuromodulation Conference. New York, NY. 2022.

740) Yeardon, V.A., & Hancock, P.A. Insider threat: Cognitive effects of modern apathy toward privacy, trust, and security. Paper presented at the 13th International Conference on Applied Human Factors and Ergonomics, New York, NY, July 2022.

741) Mouloua, S.A., McConnell, D.S., & Hancock, P.A. The resource pool is dry: A model for surfing the waves of energy. Paper presented at the 66th Annual Meeting of the Human Factors and Ergonomics Society. Atlanta, GA, October 2022.

742) Gruber, M., Diaz, Y., Clapp, S., Levin, E., Brosnihan, A., Diaz, Ye., & Hancock, P.A. Minds in Technology-Machines in Thought (MIT2) Laboratory. Paper presented at the 66th Annual Meeting of the Human Factors and Ergonomics Society, Atlanta, GA, October 2022.

743) Hancock, P.A., & Diaz, Ye. Human Factors and Ergonomics: An on-going odyssey. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Atlanta, GA, October 2022.

744) Maguire, A., Thatcher, A., Baldwin, C., Hancock, P.A., Duroha, J., Macht, G., & Rempel, D. Paving the path for sustainability in design. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Atlanta, GA, October 2022.

745) Soares, S.R., Gruber, M.E., Schmidt, K.M., & Hancock, P.A. An analysis of school-life balance in university students in the context of Covid-19 lockdowns. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Atlanta, GA, October 2022.

746) Hancock, P.A. Past-President's forum: The future of HFES by some who will create it. Paper presented at the Annual Meeting of the Human Factors and Ergonomics Society, Atlanta, GA, October 2022.

747) Gruber, M., Cruik, J., Kochan, J., & Hancock, P. A. (2023). Insights into training pilots on unexpected air carrier events: Critical incident interviews with air carrier pilots Paper presented at the 22nd International Symposium on Aviation Psychology. Rochester, NY.

Invited Presentations

- 1) *Spatial and temporal aspects of human movement control*. Invited address at the Physical Education Department, California State University, Fullerton, CA, November 1980.
- 2) *Extremes of ambient temperature and human performance efficiency*. Invited address given at the Institute for Environmental Research, Kansas State University, Manhattan, KS, April 1982.
- 3) *The control of voluntary movement*. Invited address given at the Department of Physical Education, Kansas State University, Manhattan, KS, April 1982.
- 4) *Neuropsychological and neuro-physiological considerations in the analysis of human processing capability under selective hyperthermia*. Invited address given at the Neuro-physiological and Behavioral Radiology Laboratory Veterans' Administration Medical Center, Kansas City, MO, September 1982.
- 5) *Task performance of the submerged operator*. Invited address given at the Department of Kinesiology, Simon Fraser University, Burnaby, Vancouver, B.C., Canada, October 1982.
- 6) *Control theories of movement accuracy*. Invited address given at the Department of Physical Education, University of Iowa, Iowa City, IA, March 1983.
- 7) *Human body temperature and its relationship to performance efficiency*. Invited address given at the Department of Physical Education, Southern Illinois University, Carbondale, IL, May 1983.
- 8) *Performance and safety in extremes of temperature*. Invited address given at the Institute of Safety and Systems Management, University of Southern California, Los Angeles, CA, June 1983.
- 9) *Human movement and its voluntary normative control*. Invited address given at the Department of Physical Education, Oregon State University, Corvallis, OR, June 1983.
- 10) *The concept of "space-time" and its relationship to simple and complex systems*. Invited address given at Haskins Laboratories, New Haven, CT, July 1983.
- 11) *The effect of temperature upon human performance*. Invited address given at the Department of Psychology, University of Illinois, Champaign, IL, July 1983.
- 12) *Apraxia, its role in motor dysfunction and implications for theories of movement control*. Invited address given at the Department of Physical Education, University of Wisconsin, Madison, WI, July 1983.
- 13) *Environmental temperature, body temperature and human performance*. Invited inaugural address given to the Tri-State Chapter of the Human Factors Society, Cincinnati, OH, July 1983.
- 14) *Heat and Cold: Their influences on performance, productivity and safety*. Invited address given to the Southern California Center for Industrial Hygiene, University of California at Irvine, Irvine, CA, October 1983.
- 15) *The Emerging Human Factors Discipline*. Invited address given at Los Angeles Community College, Whittier, Los Angeles, CA, November 1983.
- 16) *Hyperthermia, hypothermia and performance capability*. Invited address given at CSPP, San Diego, CA, May 1984.
- 17) *The control and accuracy of discrete voluntary movements*. Invited address given to the Department of Kinesiology, University of California, Los Angeles (UCLA), Los Angeles, CA, May 1984.
- 18) *Human Factors in industrial systems*. Invited address given at the University of Santa Clara, Santa Clara, CA, July 1984.
- 19) *The effects of stress on human performance*. Invited address given at the University of Santa Clara, Santa Clara, CA, July 1984.
- 20) *Setting a heat stress standard through performance analysis*. Invited address given at the Medical School of University of Southern California, Department of Preventive Medicine, Los Angeles, CA, September 1984.
- 21) *Movement speed-accuracy relationships in space-time: Applications to control in artificial systems*. Invited address given at the School of Industrial Engineering, Purdue University, West Lafayette, IN, September 1984.
- 22) *Ergonomics in industry*. Invited address given at LACC, Whittier, CA, December 1984.

- 23) *Speed-accuracy trade-off in human perceptual and motor behavior*. Invited address given at the Aerospace Human Factors Research Division, National Aeronautics and Space Administration (NASA), Ames Research Center, Moffett Field, CA, December 1984.
- 24) *Adaptive human-machine systems*. Invited presentation at Systems Tech., Hawthorne, CA, February 1985.
- 25) *The integration of perception and action*. Invited address given at California State University-Fullerton, Fullerton, CA, May 1985.
- 26) *The physiology of heat stress*. Invited presentation at the 29th Annual Western Occupational Health Conference, Irvine, CA, October 1985.
- 27) *Human factors and ergonomic issues in the safe operation of large-scale systems*. Invited presentation to the Safety Coordinators Meeting of Pacific Bell, San Francisco, CA, November 1985.
- 28) *The development of human motor control*. Invited presentation given at Riverside City College, Riverside, CA, November 1985.
- 29) *A new view of occupational stress*. Invited presentation at the Second Annual International Congress on Ergonomics in Industry (IACIC) Meeting, Los Angeles, CA, March 1986.
- 30) *Heat stress*. Invited presentation given at the School of Public Health, Center for Health Sciences, University of California - Los Angeles (UCLA), Los Angeles, CA, March 1986.
- 31) *Health and safety hazards in the automated workplace*. Invited presentation given to the Association of Information Systems Professionals, Los Angeles Chapter Meeting, (Panel Member), Los Angeles, CA, April 1986.
- 32) *Toward a theory of stress and adaptability*. Invited presentation given at the Department of Kinesiology, University of Illinois, Champaign, IL, June 1986.
- 33) *An approach to the problem of predictivity in assessing occupational stress effects upon human health, safety, and performance capability*. Invited presentation given at the School of Kinesiology, Simon Fraser University, Vancouver, British Columbia, Canada, August 1986.
- 34) *Robotics and artificially intelligent systems*. Invited presentation given to the Commission on Peace Officer Standards and Training, Sacramento, CA, September 1986.
- 35) *The use of robotics in security operations*. Invited presentation given to the Commission on Peace Officer Standards and Training, California Polytechnic University, Pomona, CA, December 1986.
- 36) *Stress responses and movement capabilities: Individual differences*. Invited presentation at the Second Carmel workshop on Workload and Training, Carmel, CA, January 1987.
- 37) *Assessment and palliation of heat stress*. Invited presentation given at the School of Public Health Sciences, University of California-Los Angeles (UCLA), Los Angeles, CA, March 1987.
- 38) *Workers, VDT's and the future*. Invited presentation given to the Pacific Coast Electrical Association, Irvine, CA, April 1987.
- 39) *Stress, shiftwork, and safety*. Invited presentation given to Shell Oil Company, Health and Safety Division, Monterey, CA, May 1987.
- 40) *The role of visuo-motor coordination in the operation of human-machine systems*. Invited presentation given at California State University-Fullerton, Fullerton, CA, May 1987.
- 41) *The human performance envelope in the space station* (with N. Smith). Invited presentation given to the American Institute of Aeronautics and Astronautics, Los Angeles Section, U.S. Air Force Space Section, El Segundo, CA, September 1987.
- 42) *Defeating desynchronosis: Putting common sense and science into scheduling flight crew*. Invited Panel Member, Human Factors Society Meeting, New York, NY, October 1987.
- 43) *The effects of stress and mental workload on the efficiency of aircrew performance*. Invited presentation given to the Southern California Safety Institute, Torrance, CA, November 1987.
- 44) *Expert systems, artificial intelligence and robotics in law enforcement activities*. Invited presentation given to the Commission on Peace Officer Standards and Training, California Polytechnic University, Pomona, CA, December 1987.
- 45) *Operator stress and adaptive systems*. Invited address given at the Department of Industrial and Operations Engineering, University of Michigan, Ann Arbor, MI, January 1988.
- 46) *The internal clock*. Invited address given at the Department of Psychology, University of Louisville, Louisville, KY, February 1988.

- 47) *An overview of automation and technological innovations as applicable to law enforcement activities.* Invited address given to the Los Angeles County Sheriff's Department Executive Long-Range Planning Meeting, Ventura, CA, February 1988.
- 48) *The temporal dimension of stress.* Invited address given at NASA Ames Research Center, Moffett Field, CA, March 1988.
- 49) *Investigating workload extremes.* Report given to NASA, Contractors Meeting, Asilomar, CA, April 1988.
- 50) *The management of developing technology.* Invited presentation given to California P.O.S.T. Commission, California Polytechnic University, Pomona, CA, July 1988.
- 51) *Human factors and artificial intelligence.* Invited presentation given to the California P.O.S.T. Commission, California Polytechnic University, Pomona, CA, July 1988.
- 52) *Stress, workload and ergonomics.* Invited presentation given to the Industrial Safety Committee of Pacific Telesis, Irvine, CA, October 1988.
- 53) *Integrating emerging technologies.* Invited presentation given to California P.O.S.T. Commission, California Polytechnic University, Pomona, CA, December 1988.
- 54) *Robotics and artificial intelligence.* Invited address given to California P.O.S.T. Commission, California Polytechnic University, Pomona, CA, December 1988.
- 55) *Ergonomics and the future of Safety.* Invited presentation given to the Utilities Committee of the National Safety Council, Palm Springs, CA, January 1989.
- 56) *The internal clock.* Invited presentation given at the School of Psychology, Georgia Institute of Technology, Atlanta, GA, February 1989.
- 57) *Integrating ergonomics and safety.* Invited presentation given to the Valley Coastal Chapter of the American Society of Safety Engineers (ASSE), Woodland Hills, CA, March 1989.
- 58) *The effects of stress on human performance.* Invited presentation given to the School of Kinesiology, University of Minnesota, Minneapolis, MN, March 1989.
- 59) *Stress and Workload of the Operator of High Technology Systems.* Invited presentation to the California P.O.S.T. Commission, California Polytechnic College, Pomona, CA, December 1989.
- 60) *Stress and performance efficiency.* Invited paper presented at the Indiana University Conference on Human Error, Bloomington, IN, March 1990.
- 61) *Time and strategic behavior.* Invited Presentation given at the Department of Psychology, Catholic University of America, Washington, D.C. November 1990.
- 62) *Theoretical and practical issues in the human factors of safety.* Invited Sigma Xi presentation given at the University of Cincinnati, Cincinnati, OH, March 1991.
- 63) *Workload, underload, and pilot performance strategies.* Invited presentation to the NASA Workshop Meeting on Pilot Strategic Performance, Big Sur, CA, March 1991.
- 64) *Perception-action and human factors.* Invited presentation to the 25th Reunion of the Center for Research in Learning, Perception, and Cognition. University of Minnesota, Minneapolis, MN, September 1991.
- 65) *Conspicuity and motorcycle safety.* Invited presentation to the 6th Annual Meeting of the Minnesota Motorcycle Safety Foundation, Brooklyn Park, MN, October 1991.
- 66) *The use of simulation in testing driver behavior for IVHS implementation.* Invited presentation to the Department of Civil Engineering and the Center for Transportation Studies, University of Minnesota, Minneapolis, MN, October 1991.
- 67) *Problems and promises of IVHS: Human factors and safety issues.* Invited presentation given to the Center for Advanced Research in Transportation and the Center for Systems Science and Engineering, Arizona State University, Tempe, AZ, November 1991.
- 68) *Human factors issues in shiftwork and performance.* Invited presentation at the Safety and Health Dimensions-91, Shell Oil Company, San Diego, CA, November 1991.
- 69) *Configural changes in the intelligent interface for adaptive automated task allocation.* Invited presentation at the Naval Air Development Center, Warminster, PA, January 1992.
- 70) *Memory, perception and attention.* Invited presentation at Concordia College, St. Paul, MN, January 1992.

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- 71) *Assessment of the load of mental work. Invited presentation* (with S. Stackhouse, W. Harris, and S. Miyake) at the Department of Biomedical Engineering, College of Medicine, University of Minnesota, Minneapolis, MN, February 1992.
 - 72) *On the future of virtual reality.* Invited presentation at the School of Communication Arts, Electronic Artists Group, Minneapolis, MN, March 1992.
 - 73) *Cognitive ergonomics: The second wave.* Invited presentation at the Mid-West Occupational Safety and Health Workshop on Ergonomics in the Workplace, St. Paul, MN, April 1992.
 - 74) *Understanding virtual reality.* Invited Presentation to the International Television Association, Channel 9, Eden Prairie, MN, September 1992.
 - 75) *Aging and the internal clock.* Invited Presentation to the All University Council on Aging. University of Minnesota, Minneapolis, MN, November 1992.
 - 76) *Human factors and safety in IVHS.* Invited Presentation to the State of Minnesota Traffic Engineers, Alexandria, MN, January 1993.
 - 77) *Perceptual-motor control and driving simulation.* Invited Presentation at the University of Wisconsin, Madison, WI, February 1993.
 - 78) *Use of simulation in IVHS research.* Invited Presentation with S. Stackhouse for the Center for Transport Studies, University of Minnesota, MN, March 1993.
 - 79) *The future of information communication.* Invited Presentation to the International Television Association, Minneapolis, MN, September 1993.
 - 80) *The virtual nature of reality.* Invited Presentation given to the American Association of University Women, Minneapolis, MN, February 1994.
 - 81) *On stress and performance.* Invited Presentation given to the Department of Psychology, Mankato State University, Mankato, MN, May 1994.
 - 82) *The time of your life.* Invited Presentation given at the Learning Center Retreat, University of Minnesota, Loretto, MN, May 1994.
 - 83) *The nature versus nurture question.* Invited Presentation given at the Learning Center Retreat, University of Minnesota, Eden Prairie, MN, September 1994.
 - 84) *Teleology for technology.* Invited Presentation given at the Department of Psychology, Wright State University, Dayton, OH, October 1994.
 - 85) *The human side of virtual reality.* Invited Presentation given at The University of St. Thomas, St. Paul, MN, March 1995.
 - 86) *The time of your life.* Invited Presentation given to the All-University Council on Aging, University of Minnesota, Minneapolis, MN, May 1995.
 - 87) *Are there sex differences in cognition?* Invited address given to the Minnesota Council on Family Relations, Concordia College, St. Paul, May 1995.
 - 88) *The future of Intelligent Transportation Systems.* Invited address given at the Laboratoire d'automatique et de mécanique industrielles et humaines. University of Valenciennes, Valenciennes, France, December 1995.
 - 89) *The human side of accidents.* Keynote Address given at the National Meeting of the State Motorcycle Safety Administrators, Bloomington, MN, August 1996.
 - 90) *Collision-avoidance on the ground and in the air.* Invited Paper presented at the Department of Psychology, University of Central Florida, Orlando, FL, August 1996.
 - 91) *Anticipating the Millennium.* Invited Address given at Embry-Riddle Aeronautical University, Daytona Beach, FL, November 1996.
 - 92) *Aviation Safety.* Featured Speaker, Minnesota Public Radio, 10-12-96. Discussion of current issues in aviation and airline safety.
 - 93) *Human Factors and the future of transportation.* Invited Testimony given to the Minnesota House Transportation Subcommittee, January 1997.
 - 94) *Behavioral aspects of traffic accidents.* Invited Presentation to the Human Factors Workshop, University of Michigan Transportation Research Institute, Ann Arbor, MI, March 1997.

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- 95) *The future of work and technology*. Invited Presentation to Haworth Inc, Holland, MI, March 1997.
 - 96) *Life, liberty, and the design of happiness*. Invited Presentation given to the Department of Psychology, Rice University, Houston, TX, April 1997.
 - 97) *Sudden impact science*. Invited Presentation given at Liberty Mutual Insurance Research for Safety and Health, Hopkinton, MA, June 1997.
 - 98) *Applications of simulation*. Invited Presentation given at the University of Central Florida, Orlando, FL, July 1997.
 - 99) *Driver capabilities in confined spaces. Comments on the early information of the Princess Diana car crash*. MSNBC, Monday September 1, 1997.
 - 100) *Possible causes of the Princess Diana car crash fatality*. MSNBC, National Broadcast, Monday, September 8th, 1997.
 - 101) *Safety and the Intelligent Vehicle Initiative: One face of Cognitive Systems Engineering*. Invited Presentation given at the Department of Mechanical Engineering, University of Minnesota, May 1998.
 - 102) *The history of King Richard III*. Invited Presentation given at Concordia University, St. Paul, MN, September 1998.
 - 103) *The dark side of technology*. Invited Presentation given at Minnesota State University - Mankato, Mankato, MN, February 1999.
 - 104) *Older drivers' decisions to stop driving*. Invited Guest Speaker, WCCO Radio Twin Cities, February 1999,
 - 105) *Understanding accidents*. Invited Presentation given at the Faculty Seminar, Civil Engineering Department, University of Minnesota, March 1999.
 - 106) *Applied aspects of cognitive neuroscience*. Invited Presentation given to the Cognitive Neuroscience Group, University of Minnesota, March 1999.
 - 107) *Human-centered design*. Presentation given to the Design Seminar, St. Paul Campus, March 1999.
 - 108) *Human factors issues involve in multiple vehicle collisions*. Invited Presentation at the Department of Industrial Engineering, University of Iowa, Iowa City, IA, April 1999.
 - 109) *The paradoxical reign of Richard III*. Invited Presentation given at Concordia University, St. Paul, MN, September 1999.
 - 110) *On the future of design*. Invited Presentation given for the Design Institute, University of Minnesota, Minneapolis, MN, September 1999.
 - 111). *Custer and the Titanic: Denominators of disaster*. Invited Arnold Small Lecture of the Human Factors and Ergonomics Society, Houston, TX, September 1999.
 - 112) *Designed from Disaster: An Analysis of the Basis of Catastrophic Events and Their Subsequent Lessons*. Invited Presentation at Argyle House, Residence College, University of Minnesota, Minneapolis, MN: February 2000.
 - 113) *The puzzle of the Princes: Did Richard III kill his nephews*. Invited Presentation at Concordia University, St. Paul, MN, February 2000.
 - 114) *The use of simulation for human factors testing*. Invited Presentation at the University of Central Florida, Orlando, FL, March 2000.
 - 115) *The life and times of George Armstrong Custer*. Invited Presentation given at the Valley View Middle School, Edina, MN, April 2000.
 - 116) *The nature of work and the work of nature*. Invited Presentation given at Ideafest 2000, University of South Dakota, Vermillion, SD, April 2000.
 - 117) *Visualization, simulation, and the investigation of human behavior*. Invited Presentation given at the Institute of Simulation and Training, University of Central Florida, Orlando, FL, April 2000.
 - 118) *On the future of human factors and ergonomics*. Invited Plenary Address to the First Annual Florida Human Factors and Ergonomics Student Meeting, University of Central Florida, Orlando, FL, April 2000.
 - 119) *Using simulation to evaluate operator behavior*. Invited Presentation given at the Department of Industrial and Systems Engineering, Virginia Polytechnic and State University, Blacksburg, VA, April 2000.
 - 120) *Behavioral evaluations of driver response in simulation and real-world environments*. Invited Presentation given at the Catholic University of America, Washington, DC, April 2000.

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- 121) *Understanding the nature of error in dynamic environments*. Invited Presentation given at George Mason University, Fairfax, VA, April 2000.
 - 122) *Transportation research and applications*. Panel Leader, Center for Advanced Transportation Systems Research, University of Central Florida, Orlando, FL, June 2000.
 - 123) *The mystery of the Princes in the Tower*. Invited Presentation given at Concordia University, St. Paul, MN, October 2000.
 - 124) *Human factors and ergonomics issues in the Presidential Ballot design*. Interview given on WCCO TV Channel 4 Special on the Presidential Election, Minneapolis, MN: November 2000.
 - 125) *Unsolved puzzles in driving*. Invited Opening Address given at the International Symposium on Human Factors in Driving Assessment, Training and Vehicle Design. Aspen, Colorado, August 2001.
 - 126) *A Vision of the Future*. Invited Medin Lecture, Institute for Simulation and Training, University of Central Florida, Orlando, Florida, October 2001.
 - 127) *Human Factors Contributions to Defeating Terrorism*. Invited Presentation to the National Research Council, Washington, DC, December 2001.
 - 128) *Globalization of the research and pedagogical mission: Traps and opportunities*. Invited Presentation given at the Symposium on Globalization Issues. University of Central Florida, Orlando, FL, January 2002.
 - 129) *The driving questions*. Invited Presentation given at the General Motors Technical Center, Warren, MI, September 2002.
 - 130) *Understanding the effects of stress on human performance capacity*. Invited Presentation at ARL-HRED, Aberdeen Proving Ground, MD, November 2002.
 - 131) *Some observations on the life and character of Richard III*. Invited Presentation at the 2nd Lady of the Lake Renaissance Fair, Tavares, FL, February 2003.
 - 132) *Exploring Human Factors and Ergonomics*. Invited Presentation to the Psychological Society of the University of Central Florida, Orlando, FL, March 2003.
 - 133) *How stress affects performance capacity*. Invited Presentation at the Florida Institute of Technology, Melbourne, FL, April 2003.
 - 134) *Research on stress effects on human performance*. Invited Presentation at the Cognitive Science Seminar, University of Central Florida, September 2003.
 - 135) *The driving paradox*. Invited Presentation at the General Motors Workshop on Human-Vehicle Interfaces, Detroit, MI, November 2003.
 - 136) *The riddle of King Richard III*. Invited Presentation at Valencia Community College, Kissimmee, FL, November 2003.
 - 137) *Commentaries on Richard III*. Presentation at the 3rd Lady of the Lake Renaissance Fair, Tavares, FL, February 2004.
 - 138) *Individual differences in human information processing capabilities: Sensitivity to variations in workload, stress and fatigue* (with J. Szalma). Invited presentation at the Defense Advanced Research projects Agency (DARPA) Quantifying Human Information Processing Workshop, Potomac Institute, Arlington, VA, April 2004.
 - 139) *The truth of King Richard III*. Invited Address given at the Trinity Preparatory School, Winter Park, FL, October 2004.
 - 140) *Observations on the issues of human-robot interaction*. Invited Panel presenter, NAS Workshop on Scalable Interfaces for Human Robot Interaction, National Academy of Sciences, Washington, DC. November 2004.
 - 141) *Does the cat hold the key? Discussions of the Catesby theory in relation to Richard III*. Invited presentation at the Camelot Days Fair, Ft. Lauderdale, FL, November 2004.
 - 142) *Time-to-contact: A bridge to the future*. Invited presentation at the Beckman Institute of the University of Illinois, Urbana, IL, January 2005.
 - 143) *Observations on the life of Richard III*. Invited presentation at the 19th Annual Hoggetowne Medieval Faire, Gainesville, FL, February 2005.
 - 144) *The mystery of Richard III*. Invited Address given at Valencia Community College, April 2005.
 - 145) *Hedonomics: The science of enjoyable human-technology interaction*. Invited Presentation at the Medici II Conference> Center for Positive Psychology, University of Pennsylvania, Philadelphia, PA, June 2005.

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- 146) *Time and the brain*. Invited Presentation to the National Academy of Sciences Committee on Human Factors, Woods Hole, MA, August 2005.
 - 147) *Answering questions on Richard III*. Presentation at the Lady of the Lakes Renaissance Fair, Tavares, November 2005.
 - 148) *A conversation on research and the proposal process*. Invited Presentation at the 2006 UCF Summer Faculty Development Conference, May 2006.
 - 149) *Custer and the Titanic: The denominators of disaster*. Invited Presentation at the Institute of Human and Machine Cognition, September 2006.
 - 150) *The future of stress research into warrior cognitive performance*. Invited Presentation at the Department of the Navy and National Defense University, Human Sciences Research Conference, New Approaches to Warrior Development. Washington, DC, June 2007.
 - 151) *The mystery of Richard III*. Presentation at the Lady of the Lakes Renaissance Fair, Tavares, November 2007.
 - 152) *The brain is a tumor, consciousness is a pathology, humans are a virus – any questions?* Presentation at the Department of Psychology, George Mason University, Fairfax, VA, February 2008.
 - 153) *Does the Cat hold the Key?* Observations on the Mystery of Richard III. Plenary Keynote Address to the Annual meeting of the Richard III Society of America, Orlando, FL, September 2008.
 - 154) *Observations on Richard III*. Presentation at the Lady of the Lakes Renaissance Fair, Tavares, November 2008.
 - 155) *The contributions of Engineering Psychology to the development of group leadership*. Invited Panel presentation at the West Point Global Leadership Conference on Understanding the Human Dimension in an Era of Persistent Volatility. U.S Military Academy, West Point, New York, March 2009.
 - 156) *The future of human-machine symbiosis*. Invited Presentation at Ben-Gurion University of the Negev, Be'er Sheva, Israel. June 2009.
 - 157) *Time and the brain*. Invited Presentation at Ben-Gurion University of the Negev, Be'er Sheva, Israel. June 2009.
 - 158) *Driven to Distraction*. Invited Presentation at Ben-Gurion University of the Negev, Be'er Sheva, Israel. July 2009.
 - 159) *Richard III and the Murder in the Tower*. Invited Presentation at the Annual Meeting of the Richard III Foundation, Wellesbourne, Nr. Market Bosworth, England, October 2009.
 - 160) *Author's Round Table* Presentation. Invited Presentation at the Annual Meeting of the Richard III Foundation, Wellesbourne, Nr. Market Bosworth, England, October 2009.
 - 161) *The process and purpose of publication*. Invited Presentation to the Student Organization at the 53rd Annual Meeting of the Human Factors and Ergonomics Society, San Antonio, TX, October 2009.
 - 162) *Mind, machine and morality: The future of human-machine symbiosis*. Presidential Lecture given at Wright State University, Dayton, OH, November 2009.
 - 163) *The enigma of Richard III*. Presentation given at the Department of History, University of Central Florida, Orlando, December 2009.
 - 164) *Performance on the very edge*. Invited presentation given to the Special Operations Command, Tampa, FL, January 2010.
 - 165) *Problems of workload in a vacuum*. Invited Presentation at the NASA Ames Workload Workshop, Moffett Field, CA, March 2010.
 - 166) *Richard III and the Murder in the Tower*. Invited Presentation at the University of Central Florida Book Festival, April 2010. (Presentation made by G. Hancock, while P.A. Hancock recovering from Road Traffic Accident).
 - 167) *Human factors issues in technology, morality, and the quality of life*. Skype Presentation given to the Department of Psychology, Old Dominion University, January 2011.
 - 168) *Understanding hoax: The psychology of cognitive deception*. Invited lecture given in the course: *Science and Pseudoscience in Psychology* at the University of Central Florida, Orlando, FL: October 2011.
 - 169) *The power of gods – the minds of children*. Invited presentation given to the National Research Council Committee on Ethical and Societal Issues in National Security Applications of Emerging technologies, Washington DC, January 2012.
 - 170) *Distractions from and distractions to driving*. Master Class Given at the University of Twente, Enschede, The Netherlands, February 2012.

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- 171) *Man-machine: The immediate future of human-machine symbiosis*. Invited Presentation given at TNO Soesterberg, The Netherlands, February 2012.
- 172) *Transports of delight: How technology takes us to a new realm of being*. Invited Presentation given at the University of Dayton, Dayton, OH, March 2012.
- 173) *Machines and morality*. Skype Debate and Presentation given to the United States Military Academy, West Point, New York, May 2012.
- 174) *Stress and performance efficiency: Explorations of new descriptions and causal interpretations*. Henry L. Taylor Award Presentation, Aerospace Human Factors Association, Atlanta, GA, May 2012.
- 175) *The summer of three Kings: The mysteries of Richard III*. Invited Presentation given at Upton Cressets Manor, Shropshire, England, July 2012.
- 176) *Driver distraction and distracted drivers: Obligatory attention in the process of vehicle control*. Invited Presentation given at the University of Leeds, Leeds, England, July 2012.
- 177) *The effects of stress on health and performance*. Invited Presentation given at Siemens Incorporated, Orlando, FL, July 2012.
- 178) *Hoax and deception*. Invited lecture given in the course: *Science and Pseudoscience in Psychology* at the University of Central Florida, September 2012.
- 178) *Richard III: Finding the King and Understanding his Life*. Invited Presentation at Seminole State College, Orlando, FL: March 2013.
- 179) *The psychology of self-symbiosis*. Invited Presentation at Valencia State College, Orlando, FL, March 2013.
- 180) *How technology transports us to a new realm of being*. Invited Presentation given at Michigan technological University, Houghton-Hancock, MI, April 2013.
- 181) *Absolution for distraction*. Invited Presentation to the Combined Association for the Advancement of Automotive Medicine and State farm Workshop on Driver Distraction, Chicago, IL, April 2013.
- 182) *Human factors and automobility: A failure to disagree*. Invited Paper presented at the NHTSA/VTTI/Google Automated Driving Research Roundtable, Mountain View, CA, June 2013.
- 183) *The psychology of cognitive deception*. Invited Lecture given in the Course: *Science and Pseudoscience in Psychology* at the University of Central Florida, September 2013.
- 184) *The summer of three Kings*. Invited Presentation given at the Bosworth Battlefield Center, Market Bosworth, Leicestershire, England, October 2013.
- 185) *Richard III and the transition of 1483*. Invited Presentation at the Department of History, Seminole State College, November 2013.
- 186) *Where technology can take us*. Invited Presentation at the Technical University of Delft, The Netherlands, November 2013.
- 187) *On cognitive deceptions*. Invited lecture given in: *Science and Pseudoscience in Psychology* at the University of Central Florida, September 2014.
- 188) *Transports of delight: Engineering into the unknown*. Invited Presentation given at the Department of Mechanical Engineering, Tufts University, Medford, MA, March 2015.
- 189) *Observations on the life and achievements of Raja Parasuraman*. Invited Presentation given at the Annual Human Factors and Applied Psychology Conference, Embry-Riddle University, Daytona Beach, FL, April 2015.
- 190) *Some words on the passing of Professor Raja Parasuraman*. Brief Presentation given at the Awards Banquet of the Chartered Institute of Ergonomics and Human Factors, Daventry, England, April 2015.
- 191) *Recalling my Friend Raja Parasuraman: Some brief words of remembrance*. Given at the 18th International Symposium on Aviation Psychology, Dayton, OH, May 2015.
- 192) *Observations on automation and cognitive workload*. Invited Presentation given to the Operating Committee of the North American Electricity Reliability Corporation (NERC), Atlanta, GA, June 2015.
- 193) *The psychology of cognitive deception*. Invited Presentation to the Learning Institute for Elders (LIFE) at the University of Central Florida (UCF). September 2015.

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- 194) *William, Lord Hastings and the Turbulent Summer of 1483*. Invited presentation at the Annual Meeting of the Richard III Foundation. Market Bosworth, England, October 2015.
- 195) *Training operator trust for autonomous systems*. Presentation given at Lockheed Martin, Orlando, FL, November 2015.
- 196) *Are there limits to the future of advanced driving simulation research?* Presentation given at the National Advanced Driving Simulator, University of Iowa, Iowa City, IA, February 2016.
- 197) *Challenging the immovable hubris of homo sapiens*. Presentation given to the UCF College of Sciences, Science Café, March 2016.
- 198) *The impact of stress on performance*. Presentation given to the UCF Undergraduate Course in Human Factors, April 2016.
- 199) *Transport engineering and the psychology of transportation*. Presentation given to the Department of Mechanical and Industrial Engineering, University of Iowa, Iowa City, May 2016.
- 200) *Human factors in Court: The case of vehicle conspicuity*. Brown Bag Seminar given at the Department of Psychology, University of Central Florida, Orlando, September 2016.
- 201) *Neuro-Eversion and the seeds of Civicide*. Invited Plenary Address. Is International Conference on Neuroergonomics, Paris, France, October 2016.
- 202) *The future of neuroergonomics*. Invited Round Table presentation at the First International Neuroergonomics Conference, Paris, France, October 2016.
- 203) *Any questions?* Invited Presentation at Embry-Riddle University, Daytona Beach, FL, April 2017.
- 204) *Hoax springs eternal: The psychology of cognitive deception*. Invited Keynote presentation at the Symposium: "Fake News: from the Past: Archeological mysteries and the psychology of deception. Given at the Johnson-Humrickhouse Museum, Coshocton, OH, May 2017.
- 205) *Motivations for Mars*. Invited Panel Presentation at the Mars Mission Social Science Workshop of the Buzz Aldrin Space Institute (BASIS), Kennedy Space Center, Titusville, FL, May 2017.
- 206) *Autopia: Delta or delusion*. Invited Keynote Presentation given to the National Safety Council, Road to Zero Coalition Meeting, Washington, D.C., June 2017.
- 207) *Some Remarks upon the Context of Buckingham's Insurrection in the Light of the Rebellion of Autumn 1483*. Invited (Extemporaneous) Presentation at the Annual Meeting of the Richard III Foundation, Leicester, October 2017.
- 208) *Conceptual domains, affect, and performance perspectives*. Invited Presentation at the Enhancing Assessment Workshop, Orlando, FL.: November 2017.
- 209) *Driverless vehicles: The thin end of the robotic wedge*. Invited Presentation at the 3rd Sackler Colloquium on Science and Science Communication, National Academy of Science, Washington, DC, November 2017.
- 210) *A webinar with Professor Peter Hancock*. Chartered Institute for Ergonomics and Human Factors (CIEHF), United Kingdom, July 25th, 2018.
- 211) *Isles of autonomy: Are human and machine forms of autonomy a zero-sum game?* Invited Keynote presentation at the NATO Human-Autonomy Teaming Symposium, Portsmouth, England, October 15th, 2018.
- 212) *Human vs. Technology: Who, what, where, when and how*. Invited Address at the CyberTRAINitions Workshop, Orlando, FL, January 2019.
- 213) *An information ambiguity approach to vehicle collisions*. Invited Keynote Presentation given at the Transportation Research Board (TRB) 98th Annual Meeting, Washington, DC, January 2019.
- 214) *Sleights of mind: Mysteries & myths of cognitive deception*. Invited Presentation given at the College of Sciences Distinguished Speaker Series, Tuskawilla Country Club, February 2019.
- 215) *Some observations on biomimesis as a foundation for the advancement of safety*. Ad Hoc Moderator Observations, Safety II Workshop, St. Petersburg, FL, February 2019.
- 216) *Sleights of hand and sleights of mind; The scientific art of cognitive deception*. Invited Keynote Presentation given to the Senior Chemists Meeting of the American Chemical Society, Orlando, FL, April 2019.
- 217) *Quantifying trust*. Invited Presentation to the USAF SAB Committee on Understanding and Avoiding Unintended Behaviors in Autonomous Systems, SAB Winter Baird Meeting, Irvine, CA January 2020.

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- 218) *To autonomy and beyond*. Invited Presentation to the College of Engineering, University of Toronto, Toronto, Canada, March 2020.
- 219) *Mental workload: Its importance and measurement*. Video Seminar presented to the NATICK Soldier Center, Natick, MA (with G.M. Hancock), May 2020.
- 220) *Comments on aspects of human performance*. HP Community of Practice. Video Seminar (James Merlo), May 2020.
- 221) *The prospects for HF/E in the post Coronavirus world*. Video Seminar HFES, May 2020.
- 222) *Prospects for HFES 2021*. Video Address of the In-coming 2021 HFES President. Annual Meeting (Virtual), October 2020.
- 223) *Is Human Factors and Ergonomics a Dying Field?* Chat's with Fellows, Video Discussion with Nancy Cooke and David Rempel. HFES Meeting, October 2020.
- 224) *Some observations on adaptive automation*. Virtual Presentation given to the Department of Psychology, California State University Long Beach, Long Beach, CA, October 2020.
- 225) *Observations on the present state of Human Factors/Ergonomics*. Virtual Presentation given to the Southern Ohio Human Factors and Ergonomics Society Chapter, April 2021.
- 226) *Future issues in Human Factors and Ergonomics*. Invited Podcast for the Human Factors Association of Canada (HFAC), (with Dr. Ian Noy and Dr. Mark Chignell, Audrey Benmergui Host), (Virtual) June 2021.
- 227) *The current state and future prospects for the Human Factors and Ergonomics Society*. Invited Presentation given to the Board on Human Systems Integration, National Academy of Sciences, Washington, DC. (Virtual), June 2021.
- 228) *Mlaicious Intetent: On the Crumbling Boundaries of Individual Humanity*. Invited Presentation given to the Neuroergonomics Webinar Series #5, (Virtual), July 2021.
- 229) *Trust in AI*. Invited Presentation given to the National Academy of Sciences Engineering, and Medicine, Human-AI Teaming Workshop (Virtual), July 2021.
- 230) *Welcoming remarks from the Past-President of HFES*. Brief Message to the Annual Meeting of the Puget Sound Human Factors and Ergonomics Society (Virtual), October 2021.
- 231) *It's time to think of time*. The Paul B. Baltes Lecture, (Virtual), Berlin-Brandenburg Academy of Sciences and Humanities. Berlin, October 2021.
- 232) *Observations on adaptive automation*. Invited Lecture given to the Department of Psychology, California State University, Long Beach. Long Beach, CA. (Virtual) November 2021.
- 233) *Thoughts on the future of aircraft automation*. Invited Observations given to the Department of Management and Organizational Studies. University of Western Ontario, London, Ontario, Canada, (Virtual) December 2021.
- 234) *On the future of work*. Member of the Panel Presentation of the Board on Human-System Integration, via Webinar to the Human Factors and Ergonomics Society, (Virtual), December 2021.
- 235) *Human-tool symbiosis: Past, present, and future*. Titans of Human Factors/Ergonomics Meeting, (Virtual) February 2022.
- 236) *Careers in Industry and Academe*. Group Seminar with Graduate Students at the 50th Meeting of the North American Society for the Psychology of Sport and Physical Activity, Hawaii, May 2022.
- 237) *Observations upon human factors and ergonomics in research and in practice*. Presentation given to the Leibniz Research Centre for Working Environment and Human Factors, Dortmund, Germany, (Virtual) June 2022.
- 238) *Avoiding adverse autonomous agent actions*. Presentation given to the 5th Annual Human Factors Symposium, Northrop Grumman, Orlando, September 2022.
- 239) *The impact of automation and especially the emergence of autonomous systems on human work and quality of life*. Invited Lecture given to the Department of Psychology, California State University, Long Beach. Long Beach, CA. (Virtual) October 2022.
- 240) *Observations upon the future of telepresence*. (In Conversation with Professor Thomas Sheridan). Presented at the Meeting of IEEE: Systems, Man, and Cybernetics (Virtual), November 2022.
- 241) *What Lies Beyond the Turing Threshold for Cyber Immersion?* Panel Remarks given at the Web3D Meeting (Siggraph/ACM) (Virtual), Paris, November 2022.

- 242) *On the Application of Safety-II Principles in Industry*. Panel Remarks given at the Safety-II Practical Applications Conference, Johns Hopkins All Children's Hospital St. Petersburg, FL, January 2023.
- 243) *Observations on the Life and Contributions of Paul Fitts*. Titans of Human Factors/Ergonomics Meeting, (Virtual) February 2023.
- 244) *The implications of intelligent machines for human existence*. Invited Observations given to the Department of Psychology, George Mason University, Fairfax, VA (Virtual), February 2023.

OVERALL MENTORING EXPERIENCE

I have served as a Mentor to 41 Post-Doctoral Researchers. I have directed Students at the Master Level, (8 as Director, 16 as Committee Member). At the Doctoral Level I have served as the Director of 36 PhD's and another 81 as a Committee Member, (17 as International External Examiner). During my tenure at the University of Minnesota, I supervised 6 Ronald McNair Scholars and 6 Minority Scholars. At Minnesota I also directed 7 Undergraduate Research Opportunity (UROP) Scholars. At the University of Central Florida, I have directed more than 30 Honors-in-the-Major Undergraduates, as well as further McNair and Evans Scholars.

University of Southern California

Masters Committee Chair (2 Students)

- 1) Von Haenel, A.M. Ph.D., M.S. (Safety Science). *Perception of vehicle velocity by observers of automobile accidents*. (Thesis Chairman and Advisor: Graduated December 1985).
- 2) Guill, S. M.S. (Safety Science). *Noise effects on human short-term memory and mental workload*. (Thesis Chairman and Advisor: Graduated May 1986).

Masters Committee Member (5 Students)

- 1) Caraveo, S. M.S. (Safety Science). *Anthropometric comparison of cultural differences in industrial working populations*. (Committee Member: Graduated May 1985).
- 2) Sever, S. M.S. (Safety Science). *Effects of distracters (physical and mental work) and airway resistance when wearing a respirator on subjective states of the user*. (Committee Member, Graduated, 1987).
- 3) Mihaly, T. MSIH (Industrial Hygiene). *Exercise and cognition: effects of exercise-induced arousal (Elevated heart rate), limb movement, and practice on four speed of response measures*. (Committee Member: Graduated December 1988).
- 4) Grose, E. M.Sc., (Human Factors). *Individual differences in dual task performance*. (Committee Member: Graduated September 1988).
- 5) Cann, M.T. M.Sc. (Human Factors). *Age and speed of behavior-Effects of gender, posture-induced arousal, and task loading*. (Committee Member: Graduated, May 1990).

University of Minnesota

Doctoral Committee Chair (6 Students)

- 1) Caird, J.K. Ph.D. (Kinesiology-Human Factors). *The effect of perceptual modality, hand scale, and gesture dynamics on the perception of object extent in real and virtual environments*. (Thesis Director and Chair; Graduated October 1993). (To: Department of Psychology, University of Calgary, Calgary, Canada). [1]
- 2) Arthur, E.J. Ph.D. (Psychology). *Orientation specificity in the mental representation of three-dimensional environments*. (Thesis Chairman, Graduated November 1996). (To: Microsoft Corporation, Redmond, Washington). [2]
- 3) Scallan, S. Ph.D. (Human Factors/Kinesiology). *Performance and workload effects for full versus partial automation in a high-fidelity multi-task system*. (Thesis Director and Advisor, Graduated, January 1997). [Winner, 1996 Matthew J. Huber Award for Excellence in Transportation Research, Center for Transport Studies, University of Minnesota]. (To: Microsoft Corporation, Redmond, Washington). [3]

- 4) Manser, M.P. Ph.D. (Kinesiology-Human Factors). *Time-to-contact: An examination of research methodology, age, sex, and internal timing mechanism*. (Thesis Director and Advisor, Graduated, March 1997). (To: Texas Transportation Institute, College Station, Texas). [4]
- 5) Zuzak, K.J. Ph.D. (Kinesiology). *Heart, lung, and perceptual measures of second wind*. (Committee Chairman, Graduated July 1998). [5]
- 6) Knecht, W. Ph.D. (Psychology). *Effects of critical information saliency on task performance: Application of ecological information augmentation in a cockpit display of traffic information*. (Thesis Director and Advisor, Graduated, December 2000). [Winner, 1999 Matthew J. Huber Award for Excellence in Transportation Research, Center for Transport Studies, University of Minnesota]. (To: Federal Aviation Administration, CAMI –Civil Aero-Medical Institute, Oklahoma). [6]

Masters Committee Chair (2 Students)

- 1) Williams, G. M.A. (Kinesiology-Human Factors). *Age and speed of behavior: Laboratory tasks, driving simulation and collision-warning signals*. (Major Advisor: Graduated March 1995). (To: Microsoft Corporation, Redmond, Washington).
- 2) Ellis, G. M.A. (Kinesiology). *Virtual reality applications in medical systems*. (Program Director and Committee Chair, Graduated, February 2000).

Undergraduate Committee Chair

- 1) Boldt, D. B.A. (Anthropology). *The fall of Richard III; A new analysis of Bosworth Field using virtual reality*. (*Undergraduate Research Opportunity Project), [Faculty Mentor], December 1994.
- 2) Owens, F. B.A. (International Relations - Japanese). *Virtual Japanese: A new model for Japanese syntax*. Undergraduate Honors Thesis. (Director: Graduated, May 1995).
- 3) Barbeite, F. (Summer Research Program Fellowship). [Faculty Mentor on Behavioral Science], Summer, 1997.

Doctoral Committee Member

- 1) Yang, A. Ph.D. (Computer Science). *Motion processing for geographical database systems*. (Committee Member, Graduated December 1992).
- 2) Evaristo, R. Ph.D. (Management Science). *An empirical investigation of the impact of information characteristics and information technology on individual information load*. (Committee Member, Graduated, June 1993).
- 3) Weldon, H. Ph.D. (Management Sciences). *Information technology and productivity of white-collar knowledge workers*. (Committee Member, Graduated October 1993).
- 4) Riley, V. Ph.D. (Psychology). *Human use of automation*. (Committee Member, Graduated, March 1994). (To: Honeywell Corporation, Minneapolis, Minnesota).
- 5) Rausch, R.J. Jr. Ph.D. (Kinesiology). *The effects of ramp surface on the locomotor behavior of young children*. (Committee Member, Graduated, June 1994).
- 6) Kernozeck, T. Ph.D. (Kinesiology). *Biomechanical aspects of the aging motor system*. (Committee Member, Graduated November 1994).
- 7) Smith, K. Ph.D. (Information and Decision Science). *Decision-making in rapidly changing environments*. (Committee Member: Graduated, March 1996). (To: Kansas State University, Manhattan, Kansas).
- 8) Wagner, D.G. Ph.D. (Psychology). *Generalizing recalibration of locomotion to natural spatial updating*. (Committee Member, Graduated, June 1996).
- 9) Jwo, H. Ph.D. (Kinesiology). *The effect of age and sex on a reciprocal tapping task*. (Committee Member, Graduated September 1996).
- 10) Okner, M.A. Ph.D. (Kinesiology). *Rest pressure in violin playing: Music, shoulder pad, and chin rest as possible mediators*. (Committee Member, Graduated June 1997).

- 11) Liu, S. Ph.D. (Kinesiology), *Analysis of different forms of throwing ability*. (Committee Member, Graduated, June 1997).
- 12) Guan, J. Ph.D. (Kinesiology). *The effect of aging on adaptive eye-hand coordination*. (Committee Member, Graduated, July 1998).
- 13) Manning, C. Ph.D. (Psychology). *The effect of presentation mode and schema activation on memory for scenes*. (Committee Member, Graduated, May 2000).
- 14) de Ridder, S. Ph.D. (Kinesiology). Committee Member. [Fulbright Scholar, Winner, 2000 Matthew J. Huber Award for Excellence in Transportation Research, Center for Transport Studies, University of Minnesota, Co-Winner (with Professor P.A. Hancock), 2001 Liberty Mutual Award of the International Ergonomics Association]. (To: TNO Soesterberg, The Netherlands).

Master's Committee Member

- 1) Yang, A. M.Sc. (Computer Science). *Intelligent Vehicle Highway Information Systems*. (Committee Member: Graduated September 1992).
- 2) Kozak, J. M.S. (Computer Science). *Transfer of training from virtual reality* (Committee Member: Graduated, September 1992).
- 3) McNurlin, T. M.Sc. (Aerospace Engineering). *Creating a glass cockpit simulator*. (Committee Member: Graduated December 1992).
- 4) Monsen, L. M.S. (Computer Science). *Multiple robot navigation in a known environment with unknown moving obstacles*. (Committee Member: Graduated, November 1993).
- 5) Goska R.E. M.S. (Psychology). *An aptitude-treatment interaction approach to transfer* (Committee Member: Graduated, April 1994).
- 6) Dulev, J. M.Sc. (Aerospace Engineering). *Adaptive automation in flight*. (Committee Member, Graduated April 1994). (To: Catholic University of America, Washington, DC).
- 7) Dewing, W. M.Sc. (Industrial Engineering). *Traffic information: The role of message accuracy and content on driver behavior*. (Committee Member, Graduated, January 1995). (To: Virginia Polytechnic and State University, Blacksburg, Virginia).
- 8) Orzoff, J. M.A. (Psychology). *A biofeedback-based enrollment procedure for increasing accuracy in voice-recognition technology*. (Committee Member, Graduated, January 1996).
- 9) Kelkar, V. M.S. (Computer Science), *Prototype and data model of traveler information system*. (Committee Member, Graduated, December 1996).

University of Central Florida

Doctoral Advisor and Committee Chair

- 1) Morris, C.S. Ph.D. (Psychology). *Effects of voluntary control on performance under stress*. (Dissertation Director and Advisor, Graduated May 2004). (To Raydon Corporation, Daytona Beach, Florida). [7]
- 2) Goldiez, B. Ph.D. (Modeling and Simulation). *Techniques for assessing and improving performance in navigation and wayfinding using mobile augmented reality*. (Dissertation Director and Advisor, Graduated December 2004). (Institute for Simulation and Training, University of Central Florida, Deputy Director) [8]
- 3) Helmick-Rich, J. Ph.D. (Psychology). *Warning compliance: Effects of stress and working memory*. (Dissertation Director and Advisor, Graduated December 2005). (To Microsoft Corporation, Redmond, Washington). [9]
- 4) Murphy, L.L. Ph.D. (Psychology). *The hedonomics of pleasurable human-technology interaction: Effects of exposure and aesthetics on the experience of flow*. (Dissertation Director and Advisor, Graduated December 2005). (To Convergys Inc., Orlando, Florida, Now at Ernst & Young, Cleveland). [10]

- 5) Rodriguez, M. Ph.D. (Psychology). Time estimation and hand preference. (Dissertation Director and Advisor, Graduated December 2005). [11]
- 6) Thropp, J.E. Ph.D. (Psychology). Incorporating individual differences into adaptive automation. (Dissertation Director and Advisor, Graduated January 2006). (To NASA, Kennedy Space Center, Titusville, FL.). [12]
- 7) Ganey, H.C.N. Ph.D. (Psychology). The effects of secondary task demand on the assessment of threat. (Dissertation Director and Advisor, Graduated January 2006). Winner, 2001, 2003, Center for Advanced Transportation Safety and Simulation Scholarship. Winner (with C. Jerome, P. Commarford, & B. Oakley [P.A, Hancock, and M. Mouloua Faculty Advisors]. Best Student Paper, 2001 Driving Assessment Conference, Aspen, CO. (To Human-Centric Technologies, Cary, NC). [13]
- 8) Burke, K. Ph.D. (Psychology). Workload-performance relationships: The effects of time pressure and prior task loading on shooting performance, on friend/foe identification, and UAV image detection. (Dissertation Director and Advisor, Graduated May 2006). (To Honeywell Corp, Minneapolis, MN). [14]
- 9) Whitmire, J. Ph.D. (Modeling and Simulation). The effect of in-vehicle warning devices on driver performance in work-zones. (Dissertation Co-Director, with Dr. P. Kincaid, Graduated April 2007). [15]
- 10) Greenwood-Ericksen, A. Ph.D. (Psychology) Learning African American history in a synthetic learning environment. (Dissertation Director and Advisor, Graduated, November 2007). (To Design Interactive, Orlando, FL). [16]
- 11) Naveem, R. Ph.D. (Psychology). Investigating the Effects of Tactile Stress on a Military Tourniquet Application Task. (Awarded HFES Student with Honors, 2005), (Dissertation Director and Advisor, Graduated, February 2008). (From CHI Systems to SA Technologies). [17]
- 12) Merlo, J. Ph.D. (Psychology). Cross-modal effects in tactile and visual signaling. (Dissertation Director and Advisor, Graduated, February 2008). (To the U.S. Military Academy, West Point, NY). [18]
- 13) Ross, J. Ph.D. (Psychology). Moderators of trust and reliance across multiple decision aid agents: The impact of agent reliability, source characteristics, and error salience. (Winner, 2003 APA Division 21 Best Student Paper Award). (Advisor and Dissertation Co-Director with J.L. Szalma, Graduated, March 2008). (To HumanCentric Technologies, Cary, NC). [19]
- 14) Morgan, J. Ph.D. (Psychology). Hysteresis effects in driving. (Provost's Graduate Research Fellowship, 2003; Graduate Research Fellow). Dissertation Director and Advisor, Graduated, March 2008). (To Virginia Tech Transportation Institute, Virginia Polytechnic Institute and State University, Blacksburg, VA.). [20]
- 15) Fatolitis, P. Ph.D. (Psychology). *Initial validation of novel performance-based measures: Mental rotation and psychomotor ability.* (Dissertation Director and Advisor, Graduated August 2008). (Return to. US Navy, Orlando, FL). [21]
- 16) Stafford, S. Ph.D. (Psychology), *The effect of screen size on performance of a modified code substitution task.* (Winner 2006 APA Division 19 Best Graduate Student Paper Award). (Dissertation Director and Advisor, Graduated November 2009). To FULLSAIL University, Orlando, FL [22]
- 17) Del Giudice, K.V., Ph.D. (Psychology). *Trust on the web: The impact of social consensus on information credibility.* (Dissertation Director and Advisor, Graduated July 2010). (To Design Interactive Inc., Oviedo. FL). [23]
- 18) Schaefer, K.E. Ph.D. (Modeling and Simulation). *The perception and measurement of human-robot trust.* (Dissertation Director and Advisor). (Graduated, April 2013). [To: US Army Research Laboratories, Aberdeen Proving Ground, MD]. [24]
- 19) Mercado, J.E. (Ph. D). (Institute for Simulation and Training), *Assessing the effectiveness of workload measures in the nuclear domain.* (Dissertation Director and Advisor), (Graduated, June 2014), (To: U.S Navy, Aerospace Psychologist Training, Pensacola, FL). [25]
- 20) Sawyer, B.D. (Ph. D), (Psychology), (Advisor). *Effects of signal probability on multitasking-based distraction in driving, cyberattack and battlefield simulation.* (Graduated, November 2015) Two-Time Winner of the Reppenger Scholarship of the U.S. Air Force (2013/2014), Winner of the K.U. Smith Student Award of the International

Ergonomics Association (IEA), 2015. (Graduated, September 2015). Winner of the ICCAE Intelligence Community Academic Excellence Scholarship, 2015, Winner of the Division 19 (Military Psychology) Student Research Grant 2013. Winner of the 2011 NHTSA ESV Student Design Competition. UCF College of Science Award for Outstanding Dissertation. Honorable Mention: Stanley Roscoe Doctoral Dissertation Award, Aerospace Human Factors Association, AsMA, May 2016. (To Massachusetts Institute of Technology [MIT] Boston, MA), Co-Winner and Lead Author of the Human Factors Prize, 2017. [26]

- 21) White, T.L. (Ph.D.), (Department of Psychology), *The effects of tactile displays on the perception of target distance*. Advisor and Director of Research (Graduated, June 2016), (To ARL-HRED, Aberdeen Proving Ground) [27].
- 22) Wright, J.L. (Ph.D.) (Department of Psychology), *Transparency in human-agent teaming and its effect on complacency behavior*. (Advisor and Director of Research), (Graduated June 2016). (To ARL-Orlando), [28].
- 23) Sanders, T.L. (Ph.D.), (Department of Psychology), *Individual differences in trust and attitude toward robotic assistants*. (Advisor and Thesis Director, Graduated October 2016). (To MITRE Corp. Washington, DC), [29].
- 24) Stowers, K.L. (Ph.D.). (Department of Psychology), *The role of accounts and apologies in mitigating moral blame toward human and machine agents*. (Advisor and Thesis Director, Graduated June 2017) (To School of Business, University of Alabama, Tuscaloosa, AL). [30].
- 25) Volante, W.G. (Psychology) (Ph. D). *Social conformity and human-robot interaction*. (Advisor and Doctoral Dissertation Director, Graduated March 2020). (To Clemson University, South Carolina). [31].
- 26) Kessler, T.T. (Psychology) (Ph. D). *Neurophysiological correlates of trust in robots*. (Advisor and Doctoral Dissertation Director, Graduated May 2020) (To Georgia Tech Research Institute, Atlanta, GA.) [32].
- 27) Kaplan, A.D. (Psychology), (Ph.D). *Fault attribution in collisions involving autonomous vehicles*. (Advisor and Doctoral Dissertation Director, Graduated September 2020) (To: US Navy). [33].
- 28) MacArthur, K. (Modelling and Simulations). (Ph.D.). *Physiological detection of deceptive responses during rapid screening at security checkpoints*. Advisor and Doctoral Dissertation Director, Graduated October 2021). [34].
- 29) Oppold, P. (Modelling and Simulation) (Ph.D.). *Communities of play and practice: Collaborating with audiences and co-workers in performative online space*. Advisor and Doctoral Dissertation Director, Graduated November 2021. [35].
- 30) Bond, A. (Modelling and Simulation), (Ph.D). *Investigating mitigation strategies for spatial disorientation*. (Dissertation Director and Advisor). Graduated July 2022. [36].

Masters Committee Chair

- 1) Ross, J.M. M.S. (Modeling and Simulation). Non-Thesis Option. Human Systems Track. (Program Director, Graduated November 2004).
- 3) Ganey, H.C.N. M.S (Modeling and Simulation). Non-Thesis Option. Human Systems Track. (Program Director, Graduated March 2005).
- 4) Naveem, R. M.S. (Modeling and Simulation). Non-Thesis Option. Human Systems Track. (Program Director, Graduated May 2005).
- 5) Morgan, J.F. M.S. (Modeling and Simulation). Non-Thesis Option. Human Systems Track. (Program Director, Graduated May 2006).

Undergraduate Committee Chair and Committee Member

- 1) Neubauer, C.E. B.Sc. (Psychology). How close is close enough? Temporal matching between visual and tactile signaling. Honors Thesis. (Thesis Chair). (To Doctoral Program, University of Cincinnati, Cincinnati, OH).
- 2) Hughes, A.M. B.Sc. (Psychology). Trauma as a predictor of performance under stress. Honors Thesis, (Graduated December 2010), To Graduate School.

- 3) Lee, K. B.Sc. (Psychology). Pre-screen of traits that lead to post-traumatic stress disorder with a proposed usage of simulation as treatment. Honors in the Major (Thesis Advisor). (Graduated May 2011. To: Lockheed-Martin).
- 4) Driskell, L. B.Sc. (Psychology). The investigation of a potential link between chronic traumatic encephalopathy and posttraumatic stress disorder. Honors Thesis (Thesis Chair). [Thesis Defense, November 2012].
- 5) Siler, J. B.Sc., (Psychology). *Generation and the Google effect: Transactive memory system preference across age.* Honors Thesis (Thesis Chair). [Thesis Defense, June 2013]. (To Ph.D. Program, University of Illinois).
- 6) Niederman, E. B.Sc. (Psychology). *Investigation of visual requirements for change detection.* Honors Thesis (Thesis Chair). [Thesis Defense, July 2013].
- 7) Kessler, T.T. B.Sc. (Psychology). *Social networking and users: The interaction of personality and motivation for Facebook posting.* (Thesis Chair: Honors-in-the-Major, Thesis Defense, November 2013).
- 8) MacArthur, K.R. B.S. (Psychology), *Deindividuation of drivers: Is everyone else a bad driver?* (Thesis Chair: Honors-in-the-major, Thesis Defense, July 2014).
- 9) Schafer, K.E. B.S. *The road rage and aggressive driving dichotomy: Personality and attribution factors in driver aggression.* (Psychology) (Thesis Chair: Honors-in-the-Major, Thesis Defense, June 2015).
- 10) Walker, J.A. B.S. *An examination of individual differences in working memory capacity and need for cognition in terms of performance on a feedback versus no feedback vigilance task.* Ronald E. McNair Scholar; National Science Foundation (NSF), Career Advancement and Mentoring Program for Young Entrepreneurs and Scholars (CAMP-YES) Scholar. (Mentor for Both Programs), [Winner, Best Undergraduate Presentation, Annual Human Factors and Applied Psychology Conference, Daytona Beach, FL, April 2015]. Graduated March 2016.
- 11) Alves, G. B.S. *Relationship between forensic exposure and forensic knowledge.* Honors-in-the-Major, Undergraduate Thesis. (Thesis Chair), [Winner, Judges Award, Undergraduate Paper Competition], Graduated, April 2019.
- 12) Sasser, J. B.S. *Is perceived intentionality of a social agent influenced by the kinematics?* Honors-in-the-Major, Undergraduate Thesis (Thesis Committee Member), [Winner, Judges Award, Undergraduate Paper Competition], Graduated, April 2019.
- 13) Mouloua, S. B.S. *Draining your brain: The effects of four fatiguing task domains on executive function and PFC.* Undergraduate Thesis (Thesis Committee Member). Graduated, December 2019.
- 14) Velazquez, E.M. B.S. *Understanding aggressive driving behavior: The role of personality and individual differences.* Undergraduate Theses (Thesis Committee Member), Graduated, November 2020.
- 15) Miele, D. B.S. *Investigating the role of trust and self-confidence in automation.* (Undergraduate Honors Thesis Student (Thesis Committee Member). Graduated April 2021.
- 16) Ball, R.V. B.S. *Physicians, and their patience: Redefining healthcare relationships management through readability optimization.* (Undergraduate Thesis, Industrial Engineering and Systems Management), (Committee Member, Graduated April 2021).

Doctoral Committee Member (54 Students to Date)

- 1) Downs, J.L. (Ph. D.). (Psychology). *Vibro-tactile guidance cues for target identification.* (Committee Member, Graduated April 2005). (To Boeing Aircraft Corporation, Seattle, Washington).
- 2) Mortimer, C. (Ph.D.). (Psychology). *The role of sensory characteristics in multi-tasking: Comparison of touch and audition.* (Committee Member, Graduated December 2005)
- 3) Covelli, J. (Ph.D.). (Modeling and Simulation). *A quantitative measurement of field of view effects on pilot performance.* (Committee Member, Graduated, October 2007). (To Northrop-Grumman Corp).
- 4) Jones, L.M. (Ph.D.). (Psychology). *Effect of repeated function allocation and reliability ion automation induced monitoring inefficiency.* (Committee Member, Graduated, November 2007).

- 5) Jones, R. (Ph.D.). (Industrial Engineering). *Physical ergonomic and mental workload factors of mobile learning affecting performance and satisfaction levels of adult professional distance learners: Student perspective.* (Dissertation Committee Member, Graduated March 2009). Continuing at Lockheed-Martin, Orlando.
- 6) Taylor, G.S. (Ph.D.). (Psychology). *Comparing types of adaptive automation within a multi-tasking environment.* (Committee Member). (Graduated May 2012. To IST, ACTIVE Laboratory).
- 7) Sinatra, A. (Ph.D.). (Psychology). *An examination of schema activation and degraded speech's impact on attention in a dichotic listening task.* (Committee Member), (Graduated February 2012).
- 8) Kratchounova, D. (Ph.D.). (Psychology). *The utility of verbal display redundancy in managing pilot's cognitive load during controller-pilot voice communications.* (Committee Member), (Graduated March 2012). To Sikorsky Aircraft Co.
- 9) Ballion, T. (Ph.D.). (Psychology). *Physiological responses to uncanny stimuli: Substantiation of self-assessment and individual perception in user enjoyment and comfort.* (Committee Member). (Graduated, May 2012).
- 10) Richardson, A.X. (Ph.D.). (Department of Industrial Engineering and Management Systems). *Expanding communication modalities within human robot teams: An evaluation of implicit actions.* (Committee Member). (Graduated, June 2012). Return to U.S. Air Force.
- 11) Woolley, B.G. (Ph.D.). (Department of Electrical Engineering and Computer Science, EECS), *Novelty-assisted interactive evolution of control behavior.* (Committee Member). (Graduated, June 2012). Return to U.S. Air Force.
- 12) Ray, J.M. (Ph.D.). (Psychology). *Training for decision-making in complex environments: Effects of training methods and individual differences.* (Committee Member), (Graduated March 2013), Yale Medical School.
- 13) Quinn, S.A. (Ph.D.). (Psychology). *Mitigation of motion sickness symptoms in 360-degree indirect vision systems* (Committee Member). (Graduated, October 2013. To US Navy).
- 14) Boyce, M. (Ph.D.). (Psychology). *Assessment of instructional presentation for emergency evacuation assistive technology.* [Winner of the Augmented Cognition Society, Student Paper of the Year Award with P.A. Hancock]. (Committee Member, Graduated, January 2014; To: Army Research Laboratories).
- 15) Lewis, B. (Ph.D.). (Electrical Engineering and Computer Science). *Human robot interaction for multi-robot systems.* (Committee Member, Graduated March 2014; At Lockheed Martin).
- 16) Costello, A.M. (Ph.D.). (Department of Industrial Engineering and Management Systems). *Facilitating information retrieval in social media user interfaces.* (Committee Member, Graduated, June 2014). (To UX Interaction Design).
- 17) Alsowayigh, M. (Ph.D.). (Department of Industrial Engineering and Management Systems). *Assessing safety culture among pilots in Saudi Airlines: A quantitative study approach.* (Committee Member, Graduated, July 2014). (Returned to Saudi Airlines).
- 18) Stader, S.A. (Ph.D.). (Psychology). *Impacts of complexity and timing of communication interruptions on visual detection tasks.* (Committee Member, Graduated July 2014). (To Betty West & Associates).
- 19) Li, M. (Ph.D.). (Department of Industrial Engineering and Systems Engineering). *A short window Granger causality approach to identify brain functional pattern associated with changes of performance induced by sleep deprivation* (Committee Member, Graduated, September 2014).
- 20) He, Y. (Ph.D.). (Department of Industrial Engineering and Systems Engineering) *The effects of chronic sleep deprivation on sustained attention: A study of brain dynamic functional connectivity.* (Committee Member, Graduated March 2015).
- 21) Alicia, T.J. (Ph.D.). (Psychology). *The bridging technique: Crossing over the modality switching effect.* (Committee Member, Graduated, April 2015).

- 22) Aloaimi, M. (Ph.D.). (Department of Industrial and Systems Engineering). *Safety climate and safety outcomes in aircraft maintenance: A mediating effect of employee turnover and safety motivation.* (Committee Member, Graduated, June 2015).
- 23) O'Connell, M.E. (Ph.D.). (Psychology). *Integration of multidimensional signal detection theory with fuzzy signal detection theory.* (Committee Member, Graduated October 2015).
- 24) Teo, G.W. (Ph.D.). (Psychology). *Enhancing the effectiveness of human-robot teaming with a closed-loop system.* (Committee Member, Graduated, October 2015).
- 25) Angelopoulou, A. (Ph.D.). (Institute for Simulation and Training). *Simulation-based task analysis using agent based discrete event and system dynamics simulation.* (Committee Member, Graduated, October 2015).
- 26) Van De Car, S. (Ph.D.). (Psychology). *Detecting threats from constituents' parts: A fuzzy signal detection theory analysis of individual differences.* (Committee Member, Graduated, November 2015).
- 27) Fok, A.W. (Ph.D.). (Psychology). *Configural displays: The effects of salience on multi-level data extraction.* (Committee Member, Graduated November 2015).
- 28) Aljuaid, A. (Ph.D.). (Department of Industrial and Systems Engineering). *A neuroergonomic study of brain EEG activity during manual lifting tasks.* (Committee Member, Graduated April 2016).
- 29) Ledbetter, J. (Ph.D.) (Psychology). *Interactive amusement park queues: Examining the indirect effects of task workload on guests' perception of wait duration through task immersion.* (Committee Member, Graduated April, 2016).
- 30) Alrehaili, O. (Ph.D.). (Department of Industrial and Systems Engineering). *Assessing safety culture among persons in governmental construction sites in Saudi Arabia: A quantitative study.* (Committee Member, Graduated, October 2016).
- 31) Neigel, A. (Psychology). (Ph.D.). *Beyond compliance: Examining the role of motivation in vigilance performance.* (Committee Member, Graduated, March 2017).
- 32) Harris, J. (Industrial Engineering and Management Systems). (Ph.D.) *Investigating the impact of levels of expertise on workload during nuclear power plant operations.* (Committee Member). (Graduated, April 2017, To Prodigy Laboratory, IST).
- 33) Fraulini, N. (Ph.D.) (Psychology). *Examining energetic and structural components of knowledge of results using a vigilance paradigm.* (Committee Member), (Graduated, October 2017).
- 34) Rahmatizadeh, R. (Ph.D.) (Computer Science). *Learning robotic manipulations from user demonstrations.* (Committee Member), (Graduated, October 2017).
- 35) Muhs, K. (Ph.D.) (Industrial Engineering and Management Systems). *An agent-based model to assess crew temporal variability during US Navy shipboard operations.* (Committee Member), (Graduated, February 2018).
- 36) Claypool, V.L. (Psychology). (Ph.D.). *Understanding human performance and social presence: An analysis of the vigilance and social facilitation.* (Committee Member), (Graduated, February 2018).
- 37) Alhujailli, A. (Industrial Engineering and Management Systems) (Ph.D.). *A study of EEG signatures associated with emotional and stress responses to cyberbullying,* (Committee Member, Graduated, March 2018).
- 38) Bergmann, T. (Industrial Engineering and Management Systems). (Ph.D.). *The relationship between agile project management and project success outcomes.* (Committee Member, Graduated. April 2018).
- 39) Glaspie, H. (Industrial Engineering and Management Systems/Institute for Simulation and Training). (Ph.D.) *Assessment of information security culture in higher education.* (Committee Member, Graduated June 2018).
- 40) Khalilzadeh, J. (Rosen College of Hospitality Management). (Ph.D.), *Destination image and tourist's imagination: The forgotten component.* (Committee Member, Graduated July 2018). [To: Post-Doctoral Studies, Temple University].

- 41) Williams, S. (Psychology). (Ph.D.). *The perceptual and decisional basis of emotion identification in creative writing.* (Committee Member, Graduated August 2019).
- 42) Garmon, J.P. (Industrial Engineering and Management Systems). (Ph.D.). *A study of perceptions on incident response exercises, information sharing, situation awareness, and incident response planning in power grid utilities.* (Committee Member, Graduated November 2019).
- 43) Hidalgo, M. (Industrial Engineering and Systems Management). (Ph.D.). *Predicting human-agent team effectiveness: A communication-based model.* (Committee Member). (Graduated, February 2020).
- 44) Mazaheri, A. (Computer Science) (Ph.D.). *Video content understanding using the text.* (Committee Member, Graduated, April 2020).
- 45) Farahani, F.V. (Industrial Engineering and Management Systems). (Ph. D). *Identifying diurnal variability of brain connectivity patterns using graph theory.* (Committee Member), (Graduated, July 2020).
- 46) Rahman, M. (Industrial Engineering and Systems Management) (Ph.D). *EEG-based signatures of isometric arm forces by females at differing levels of physical exertion and comfort.* (Committee Member, Graduated August 2021).
- 47) Ismail, L.E. (Industrial Engineering and Management Systems) (Ph.D). *Topological changes in the functional brain networks induced by isometric force exertions using a graph theoretical approach: An EEG-based neuroergonomics study.* (Committee Member, Graduated April 2021).
- 48) Napier, S. (Modelling and Simulation). (Ph.D.). *A breathing intervention to enhance cardiac regulation and mitigate stress in police cadets.* (Committee Member, Graduated April 2021).
- 49) Obeidat, S. (Industrial and Systems Engineering), (Ph.D). *Assessment of work-related feelings among teachers within Jordan and the United States educational systems.* (Committee Member, Graduated July 2021).
- 50) Fernandez-Sumano, R. (Industrial Engineering and Management Systems). (Ph.D). *Neurological signatures of human perception of effort in isometric arm forces exertions by males.* (Committee Member, Graduated July 2021).
- 51) Khodadadeh, S. (Computer Science). (Ph.D), *Unsupervised meta-learning* (Committee Member). (Graduated, July 2021).
- 52) Tice, P. (Civil, Environmental and Construction Engineering), (Ph.D). *Identifying the links between mental frameworks, context features, and driver behavior attention in complete street environments.* (Committee Member), (Graduated, July 2021).
- 53) Azyabi, A. (Industrial and Systems Engineering) (Ph.D). *Assessing patient safety culture in United States hospitals.* (Committee Member), (Graduated, March 2022).
- 54) Saeidi, M. (Industrial Engineering and Management Systems). (Ph.D). *Decoding task-based fMRI data with graph neural networks, considering individual differences.* (Committee Member). (Graduated, June 2022).
- 55) Ferraro, J. (Psychology) (Ph.D). *Automation, take the wheel: Examination of factors influencing trust in driver assistance technologies.* (Committee Member). (Graduated, September 2022).
- 56) Clapp, S.R. (Industrial Engineering and Systems Management) (Ph.D). *A holistic work system approach to creating flow during transactional work.* (Committee Member), (Graduated, March 2023)

In Progress

- 57) Xu, Z. (Industrial Engineering and Management Systems). (ABD) *A study of mental workload assessment by nonlinear dynamics of EEG in a simulated unmanned vehicle task.* (Committee Member).
- 58) Beaton, B. (Industrial and Systems Engineering). (Committee Member).
- 59) Hejazi, S. (Industrial Engineering and Management Systems). *An edge-centric network modeling approach for assessing the effect of multiple sclerosis (MS) on brain functional connectivity.* (Committee Member) (ABD).

Masters Committee Member

- 1) Sawyer, B.D. (M.S.). (Department of Industrial Engineering and Management Systems). *Applied error-related negativity: Single electrode electro-encephalography in complex visual stimuli*. (Committee Member, Graduated May 2014).
- 2) Rummel, A. (M.S.). (Department of Industrial Engineering and Management Systems). *Equivalency analysis of sidestick controller modes during manual flight*. (Committee Member, Graduated June 2018).
- 3) Laxton, B.G. (M.S.). *Contrasting extended reality (XR) and traditional tablet technologies, usability, workload, and military multi-domain operations (MDO) situation awareness*. (Committee Member, March 2023).

Recent Honors in the Major Students as Advisor (Limited Listing).

Mirella Galliano Rechani: *The effects of mental health disorders on time distortion*. (Current)
 Annamarie Brosnihan: *The relationship between task-induced stress and time perception* (Current)
 Camille Omega: *Effects of tablets on individuals with learning disabilities vs other learning styles*. (Current)
 Giovanna Alves: *Relationship between forensic exposure and forensic knowledge*. (Graduated 2019)
 Jenny Walker: *An examination of individual differences in the context of performance on a feedback versus no feedback vigilance task*. (Graduated 2016)
 Kathryn Schafer: *The road rage and aggressive driving dichotomy: Personality and attribution factors in driver aggression*. (Graduated 2015)
 Keith MacArthur: *Deindividuation of drivers: Is everyone else a bad driver?* (Graduated 2014)
 Elisabeth Niederman: *Investigation of visual requirements for change detection*. (Graduated 2014)
 Jessica Siler: *Generation and the Google Effect: Transactive memory system preference across age*. (Graduated 2014)
 Theresa Kessler: *Social networking and users: The interaction of personality and motivation to post on Facebook*. (Graduated 2013)
 Lucas Driskell: *The investigation of a potential link between chronic traumatic encephalopathy and posttraumatic stress disorder*. (Graduated 2012)
 Krystal Lee: *Pre-screen of traits that lead to post-traumatic stress disorder*. (Graduated 2011)
 Catherine Neubauer: *How close is close enough? Temporal matching between visual and tactile signaling*. (Graduated 2008)

Recent Honors in the Major Students as Committee Member (Limited Listing).

Mirella Galliano-Rechani: *Effects of mental health disorders on time perception*. (Graduated, 2022)
 Alyssa Holcomb: *The role of individual differences and personality factors in distracted and aggressive driving behavior*. (Graduated 2022)
 Rachel Ball: *Physicians and patients: Redefining healthcare via readability optimization*. (Graduated 2021)
 Daniela Miele: *Investigating the role of trust and self-confidence in automation*. (Graduated 2021)
 Enilda Velazquez: *Understanding aggressive driving: Role of personality and individual differences*. (Graduated 2020)
 Jordan Sasser: *Is perceived intentionality of a social agent influenced by the kinematics?* (Graduated 2019)
 Salim Mouloua: *Draining your brain: Effects of fatiguing tasks on executive function and PFC*. (Graduated 2019)

Current Graduate Students Not Yet Progressed to Candidacy

- 1) *Tiffani Walker*, (IST), (Advisor)
- 2) *Mira Gruber* (Psychology), (Advisor)
- 3) *Yazmin Diaz*, (Psychology) (Advisor)
- 4) *Maxwell Stolarenko* (IST) (Advisor)
- 5) *Ethan Levin* (IST) (Advisor)

International External Examiner (16 Doctoral Students)

- 1) R.E. Schiefer. Ph.D. (Medicine). *Thermal effects on the performance of schoolchildren*. (University of Witwatersrand, Johannesburg, South Africa, Graduated, 1991).
- 2) J. Pei. Ph.D. (Psychology). *The accuracy of time-to-contact estimation in the prediction motion paradigm*. (University of Canberra, Australia, Graduated, May 2002).
- 3) T. Alm. Ph.D. (Technology). *Simulation-based design*. (Linköping, University, Sweden, Graduated, March 2007).

- 4) R.R. Seva, Ph.D. (Mechanical and Aerospace Engineering). *Predictive models of emotions from product design features*. (Nanyang Technological University, Singapore, 2007).
- 5) N. Michael, Ph.D. (Psychology), *Cardiac and electroencephalographic measures of workload associated with secondary tasks while driving*. (Swinburne University of Technology, Australia, Graduated, March 2011).
- 6) N. Schaap, Ph.D. (Psychology). *Driving behaviour in unexpected situations*. (University of Twente, The Netherlands, Graduated, February 2012).
- 7) D.L. Hibberd, Ph.D. (Institute for Transport Studies). *Driver distraction: Managing the timing of in-vehicle tasks to improve driver safety*. (University of Leeds, Leeds, England, Graduated, July 2012).
- 8) C. Chaplin, M.Sc. (Department of Human Kinetics and Ergonomics). *The factors affecting self-regulation through the analysis of physiological, psychological, and behavioral measures during task switching*. (Rhodes University, Grahamstown, South Africa, January 2013).
- 9) B. Tawatsupa, Ph.D. (College of Medicine, Biology and Environment). *Effects of heat stress on human health: Input into health impact assessment of climate change*. (Australian National University, Australia, February 2013).
- 10) Y. Salzer, Ph.D. (Faculty of Engineering Sciences). *Cognitive control in the tactile Simon task: The unique role of tactile spatial information*. (Ben-Gurion University of the Negev, Beer-Sheva, Israel, July 2013).
- 11) S. De Groot, Ph.D. (TU Delft). *Exploiting the possibilities of simulators for driver training*. (Technical University of Delft, The Netherlands, November 2013).
- 12) J. Brooks, Ph.D. (School of Psychology and Social Sciences). *Cognitive fatigue: Exploring the relationship between the fatigue effect and action video-game experience*. (Edith Cowan University, Western Australia, November 2015).
- 13) K.M. Gabrechts, Ph.D. (School of Engineering). *Human factors of semi-autonomous robots for urban search and rescue*. University of Nottingham, Nottingham, England. (June 2016).
- 14) Jansen, R.J. Ph.D. (TU Delft). *Under pressure: Explorations on the dynamics of prioritization in dual task driving*. Technical University of Delft, Delft, The Netherlands (June 2017).
- 15) Herlambang, M.B. Ph.D. (Graduate School of Science and Engineering). *Mental fatigue and motivation: Effects and mechanisms*, Faculty of Science and Engineering, University of Groningen, The Netherlands (July 2020).
- 16) Vasquez, H. Ph.D. (Mechanical and Industrial Engineering). *A mirror in the sky: The effects of map format, user expertise and practice on mental workload and performance in navigation tasks*. (University of Toronto, Toronto, Canada, December 2020).
- 17) Walsch, B. (M.Sc.). *Once again, quo vadis HF/E*. (Institute for Psychology) TU Berlin.(December 2021).

Summary of Student Mentorship in All Institutions

Doctoral Level Supervision:

University of Minnesota	Doctoral Mentees (n=6).	Committee Member (n=14)
University of Central Florida	Doctoral Mentees (n=30).	Committee Member (n=54)
International External Examiner		Committee Member (n=17)
Total: N=121		

Masters Level Supervision

University of Southern California	Masters Mentees, (n=2)	Committee Member, (n=5)
University of Minnesota	Masters Mentees (n=2).	Committee Member (n=9)
University of Central Florida	Masters Mentees (n=5).	Committee Member (n=4)
Total: N=27		

International Experience

Dr. Hancock has visited the following thirty countries and has delivered keynote speeches in the majority of these nations: Australia, Austria, Bahamas, Belgium, Brazil, Canada, Denmark, England, France, Germany, Greece, Ireland, Israel, Italy, Jamaica, Japan, Jordan, Mexico, New Zealand, Northern Ireland, Portugal, San Marino, Scotland, Spain, Sweden, Switzerland, Tahiti, The Netherlands, Wales, The Vatican State. He has delivered a Skype Keynote Presentation in South Africa but was prevented from a physical visit by Hurricane Maria.

Confidential Peer Review

Across my career, I have reviewed now more than 80 candidates for Promotion and Tenure in Universities across the World.

Affiliated Post-Doctoral Researchers

- 1) *Barbara Carlton* (1987-1988), University of Southern California (Preceptor).
- 2) *Virginia Diggles* (1988-1989) University of Southern California, (Preceptor)
- 3) *Pierre Loslever* (1991-1992), University of Valenciennes, France. (Sabbatical Leave)
- 4) *Shinji Miyake* (1991-1992) University of Occupational Safety and Health, Kitakyushu, Japan. (Sabbatical Leave).
- 5) *Wayne Harris* (1991-1992) Mankato State University, Mankato, MN (Sabbatical Leave).
- 6) *Stirling Stackhouse* (1991-1996) [From: Honeywell Inc., Minneapolis, MN, to: Full Retirement].
- 7) *Willem Verwey* (1996), TNO Soesterberg, The Netherlands (Sabbatical Leave)
- 8) *Michael Manser* (1997), [From: University of Minnesota], [To: Texas Transportation Institute, Texas A&M University].
- 9) *Christian (Kip) Smith* (1994-1998), [From: Carlson School of Management, University of Minnesota], [To: Kansas State University, Manhattan, KS].
- 10) *Paula Desmond* (1997-1998), [From: University of Dundee, Scotland, to: Department of Psychology, Texas Tech University, Lubbock, TX].
- 11) *Steve Scallen* (1996-1999), [From: University of Minnesota, to: Microsoft Corporation, Seattle, WA].
- 12) *Tom Smith* (1996-2001), [From: U.S. Bureau of Mines and Simon Fraser University], [To: University of Minnesota, Minneapolis, MN].
- 13) *Victor Korchev* (1996-2001), [From: Moscow, USSR], [To: University of Minnesota, Minneapolis, MN].
- 14) *Kathleen Harder* (1998-2001), {From: Dartmouth College, and Macalester University}, [To: University of Minnesota, Minneapolis, MN].
- 15) *John Bloomfield* (2000-2001), [From: University of Nottingham, England and Liberty Mutual Inc.], [To: University of Minnesota, Minneapolis, MN].
- 16) *Paul Ward* (2002-2003), [From: Liverpool John Moore's University, England, to: Florida State University, Tallahassee, FL].
(Winner 2003 G.E. Briggs Dissertation Award, Div. 21, American Psychological Association).
- 17) *James Szalma* (2002-2006), [From SUNY Farmingdale and University of Cincinnati, to: University of Central Florida, Orlando, FL].
- 18) *Tal Oron-Gilad* (2003-2006). {From: Ben Gurion University, Be'er Sheva, Israel. To Faculty Member, Ben Gurion University, Israel. (Winner 2004 G. E. Briggs Dissertation Award, Div. 21, American Psychological Association).
- 19) *Ann Dalrymple* [M.D] (2005-2006). [From: Uniformed Services University of the Health Sciences, Bethesda, Maryland, to: The National Institutes of Health, Frederick, MD].
- 20) *Wayne Harris* (2003-2006). [From: University of Minnesota, to: University of Central Florida].
- 21) *Gareth Conway* (2005-2006). [From: Leeds University, England, to: Defense Science and Technology Laboratories, UK Ministry of Defense]. (Winner 2006 G.E. Briggs Dissertation Award, Div. 21, APA).
- 22) *Aaron Duley* (2005-2007). [From: University of Florida, to: NASA Ames Research Center, Moffett Field, CA].
- 23) *Karol Ross* (2006-2007). {From: University of Tennessee, to: IST, University of Central Florida, Orlando, FL.
- 24) *Jong Kim* (2009-present). [From: Pennsylvania State University, to University of Central Florida], Orlando, FL.
- 25) *James Whitmire* (2009-2010). [From: University of Central Florida, to: Master's in Social Work (UCF)].
- 26) *Mark Taylor* (2010), [From: United States Air Force (Research Fellowship Year). (Return to USAF Active Duty, Clovis AFB, New Mexico).
- 27) *Adi Ronen* (2010-2011). Ben-Gurion University, Israel (Sabbatical Leave). [Return to Ben-Gurion University].
- 28) *Deborah Billings* (2010-2012), [From: University of Central Florida, to: Institute for Simulation and Training, UCF], (Winner 2011 G.E. Briggs Dissertation Award, Div. 21, APA). To Aptima Inc.
- 29) *James Carter* (2011-2012). University of Saskatchewan, Canada (Sabbatical Leave).
- 30) *Eva Siegenthaler* (2012-2013), University of Berne, Switzerland (Swiss National Research Foundation Grant Support).
- 31) *Isabell Winkler* (2013-2014). Chemnitz University Germany (Sabbatical Leave).

- 32) *Thomas Magee* (2013-2014), United States Air Force (Research Fellowship Year). (Return to USAF Active Duty, Kadena AFB, Okinawa, Japan).
- 33) *Benjamin Sawyer* (2015-2016), UCF Graduate to Post-Doctoral Work. To Massachusetts Institute of Technology (MIT), Boston, MA.
- 34) *Anjum Naweed* (2016). Visiting Faculty, University of Adelaide, Adelaide, Australia.
- 35) *Jessica Cruik* (2017-2021). Embry-Riddle Aeronautical University. (To: Institute for Simulation and Training, UCF).
- 36) *James Carter* (2017-2018), University of Saskatchewan (Sabbatical Leave). (Return to University of Saskatchewan).
- 37) *Kristy Snyder* (2018-2019). Vanderbilt University. (To: C3 Research LLC).
- 38) *Jordan Navarro* (2018). University of Lyon, France (Temporary Leave). (Return to University of Lyon).
- 39) *Paul Salmon* (2018) University of the Sunshine Coast, Australia (Sabbatical Leave). (Return to University of the Sunshine Coast).
- 40) *Yisrael Parmet* (2019). Ben-Gurion University of the Negev, Israel (Sabbatical Leave). [Return to Ben-Gurion University].
- 41) *Isabel Winkler* (2021-2022). Chemnitz University, Germany, (Sabbatical Leave).

Affiliated Pre-Doctoral Researchers

- 1) *Susan Chrysler*, University of Minnesota, June 1992-October 1993 to Center for Transportation Safety, Texas Transportation Institute, College Station, TX.
- 2) *William Horrey*, University of Calgary, June-November 1999 to University of Illinois and Liberty Mutual Research Center, Hopkinton, MA.
- 3) *Katarina Gabrechts*, University of Nottingham, England, February 2015, to April 2015. Return to Nottingham.
- 4) *Shuling Li*. Tsinghua University, China, September 2015, to August 2016. Return to Tsinghua.
- 5) *HiroYuki Kuraoka*, Kyushu Institute of Technology, Japan, October 2016-September 2017.
- 6) *Merle Lau*, University of Bochum, Germany, November 2016-March 2017.
- 7) *Blasius Walch*, Technical University of Berlin, March 2020-June 2020.

Additional Mentoring Activities

2019: Nominated, Undergraduate Research Mentor of the Year.

2019: Faculty Mentor: Dr. Pamela Wisniewski, (Computer Science, UCF), Winner NSF Career Award.

UNIVERSITY OF SOUTHERN CALIFORNIA: TEACHING AND ADMINISTRATIVE SERVICES

Department of Safety Science

Research Committee (Chair)

Curriculum Committee

Computer Development Committee

Student Enrollment Committee

Graduate Student Program Committee (Chair)

Graduate Research Program Committee (Chair)

Accreditation Committee. (USC Department of Safety was the First Ever Nationally Accredited Department for Safety Graduate Studies)

Chair's Advisory Committee

Institute of Safety and Systems Management

ISSM Future Planning Committee

Faculty Forum Steering Committee

Principal Investigators Committee

ISSM Institute Forward Planning Committee

ISSM Committee on Committees

ISSM Space Planning Committee

ISSM Research Committee

ISSM Graduate Advising Committee

University

Faculty Senate

University Research Advisory Committee

COURSES TAUGHT

Human Factors
Human Factors in Accident Causation
Stress and Human Performance
Ergonomics
Aviation Psychology
Human Factors in Aviation Safety
Preventative Medicine (M.D. Sections only)
Aviation Safety: Management Techniques For Executives
Recognition of Accident Potential in the Workplace
Ground Safety Management
Safety For Aircraft Cabin Personnel
Instructor's Mishap Investigation Course
Occupational Stress (Department of Public Health, University of California, Los Angeles, Invited Lecturer)
Safety Engineering
Systems Ergonomics
Thesis Research
Directed and Independent Research

UNIVERSITY OF MINNESOTA: TEACHING AND ADMINISTRATIVE SERVICES**Department of Kinesiology**

Human Factors Research Laboratory, Director
Department Curriculum Committee
Computer Facilities Development Committee
Curriculum Development Committee
Faculty Search Committee (Chair)
Semester Transition Committee
Graduate Research Committee (Chair)
Annual Evaluation Committee (Multiple Occasions).
Post Tenure Review Committee
Developed Human Factors Minor (Committee Chair)
Director of Graduate Studies for the Human Factors Minor (1998 to 2001)
Faculty Search Committees
HFRL Laboratory Operations Director Search Committee (Chair)

College of Education

Technology Assessment and Planning Committee
International Education Committee
Recognition and Awards Committee
Post-Tenure Review Committee
Promotion and Tenure Committee
Research Advisory Committee

University

All University Council on Aging Research Committee
University-NASA Research Scholarship Selection
Fessler-Lambert University Chair Search Committee
Center For Injury Control Executive Committee
Learning Center, Executive Council, Scholarship Committee, External Colloquium Committee
Center for Transportation Studies, ITS Director Search Committee
Center for Cognitive Science (formerly the Center for Learning, Research and Cognition), Executive Council.
Center for Transportation Studies, Research Director, Search Committee Chair.
Center for Transportation Studies, Safety and Traffic Flow Council.
Center for Transportation Studies, Research Program and Structure Committee
Conference Development and Selection Committee
Doctoral Dissertation Award Selection Committee
Occupational Injury Steering Committee
Design Initiative Steering Committee
Design Initiative Awards Committee
Center for Cognitive Science Membership Committee
Center for Cognitive Science Executive Council

Center for Cognitive Science Visiting Scholar Selection Committee
Center for Cognitive External Colloquium Committee
Center for Cognitive Science Retreat Committee
Center for Cognitive Science Distinguished Lecture Committee
Undergraduate Engineering Research Excellence Committee

COURSES TAUGHT

Virtual Reality
Human Factors and Safety in Intelligent Vehicle Highway Systems
Human Performance
Introduction to Human Factors
Attention Narrowing Under Stress
Design from Disaster
Application of Basic Sciences
Introduction to Motor Behavior
Motor Control
Motor Development
Effects of Stress on Human Performance
Human Factors Physiology
Human Factors Psychology
Introduction to Human Factors and Ergonomics
Human Factors and Ergonomics
Undergraduate Research
Thesis Research
Dissertation Research
Directed and Independent Studies
Pro-Seminar in Human Factors

UNIVERSITY OF CENTRAL FLORIDA: TEACHING AND ADMINISTRATIVE SERVICES**Department of Psychology**

Human Factors and Applied Experimental Graduate Committee
Departmental Promotion and Tenure Committee
Human Factors and Applied Experimental Group Building Committee
Psychology Building Design Advisory Committee
Departmental Advisory Committee
Strategic Planning Committee
Senior Faculty Search Committee (Chair).
Cyber-Defense Faculty Selection Committee (Chair)
Professor Emeritus Nominating Committee (Chair)
Chair Selection Advisory Committee.
Human Factors and Ergonomics Student Chapter Advisory Committee
Annual Faculty Evaluation Committee (Multiple Occasions).
Faculty Workload Assessment Committee
Ad Hoc Student Appeals Committee
Continuing Professional Evaluation (CPE) Committee
Undergraduate Honors in the Major Assessment Committee
Director: Minds in Technology, Machines in Thought Laboratory (2001-Present).
Continuing Professional Assessment Committee

School of Simulation and Training

Research Committee
Degree Program Development Committee
NSF/IGERT Development Committee
NSF/AI Grant Development Committee
NexGen Development Committee
Doctoral Program Development Committee
BARS Research Committee
Promotion and Tenure Committee
Non-Tenure Faculty Promotion Committee
Laboratory Leaders Advisory Committee

College of Sciences

Research Initiative Award Committee (Multiple Occasions)
Promotion and Tenure Committee
Research Committee
Research Incentive Award Committee

University

Research Committee (2002-2004)
Presidential Equipment Award Sub-Committee (Chair)
Burnett Honors College SMART Grant Application Review Committee
Presidential Program Advisory Panel
Undergraduate Education Project Selection Panel
Search Committee, Vice Provost and Dean, Office of Undergraduate Studies

COURSES TAUGHT

Thesis Research
Directed Research
Dissertation Research
Undergraduate Thesis Direction
Undergraduate Honors
Independent Studies
Human Factors II (Each Year for the Past 21 Years, Except Sabbatical Years).
Human Factors III
Undergraduate Honors Seminar: It's About Time (Co-Taught with Dr. Carol Saunders). Burnett Honors College.
Guest Lectures: Industrial and Systems Engineering; Civil and Environmental Engineering; History, Computer Science, Interdisciplinary Course Development (Grant Award). Course Developed and Delivered. School of Business
Collaborative Course Development.

COMMUNITY SERVICE

Blaine High School (Assistant Head Soccer Coach), 1998-1999. Mounds View High School (Assistant Head Soccer Coach), 1999-2000 (Section Finalists, 1999, 2000). University of Central Florida (Assistant Women's Rugby Coach), 2002 to 2004. (NCAA Southern Area Runners-Up, 2002). Oviedo YMCA, Guest Soccer Coach, 2015. UCF Men's Rugby Club (Faculty Advisor, (2016-Current). Faculty Advisor: UCF Student Chapter of the Human Factors and Ergonomics Society (2016-Present).

Biographical References:

Parasuraman, R. (2006). The humane factors of being first – and last: In: J. Stuster, (Ed.). *The human factors and ergonomics society: Stories from the first 50 years*. (pp. 73-74), Santa Monica, CA., The Human Factors and Ergonomics Society.