

Daniel S. McConnell, Ph.D.

Curriculum Vitae

Contact Information

Department of Psychology
4111 Pictor Lane
Psychology Bldg. 99, Ste. 320
University of Central Florida
Orlando, FL 32816

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Education

Doctor of Philosophy in Sensory Psychology, November 1999 - Indiana University
Bachelor of Science in Psychology, December 1992 - Indiana University

Positions Held

Associate Lecturer, Department of Psychology, University of Central Florida, August 8, 2016 – Present

Lecturer, Department of Psychology, University of Central Florida, August 8, 2007 – August 8, 2016

Research Consultant, JAS Human Factors Consulting, January, 2011 – October, 2011

Research Assistant Professor, National Institute for Aviation Research, Wichita State University, April 1, 2007 – September 22, 2007

Assistant Professor, Human Factors Area, Department of Psychology, Wichita State University, August 5 2001 – August 27, 2007.

Post-Doctoral Fellow, Institute for Research in Cognitive Science, University of Pennsylvania, September 1999 – August 2001.

Research Grants, Awards & Appointments

Rupp, M.A., McConnell, D.S., & Smither, J.A. (2016). Investigating the Role of Age and Fitness in Purposeful Pointing. LIFE@UCF Richard Tucker Applied Gerontology Research Grant. Amount: \$3500.00

Potter, J., Lowe, D., & McConnell, D.S. (2016). Visual and Proprioceptive integration of the virtual and real fingertips. UCF Office of Undergraduate Research. Amount: \$600.00.

Kozachuk, J., & McConnell, D.S. (2016). An Investigation of the effect of the discrete Fitts' pointing task on stress. UCF Showcase of Undergraduate Research, Honorable Mention Award \$250.00.

Rupp, M.A., Michaelis, J.R., McConnell, D.S., & Smither, J.A. (2015). Validation and Usability Analysis of Wearable Fitness Technology for Older Adults. LIFE@UCF Richard Tucker Gerontology Applied Research Grant. Amount: \$1300.00

Chudy, N., & McConnell, D.S. (2015). Performance of the Basis Peak and Microsoft Band 2 During N-Back Task: A Validity and Reliability Study. UCF Office of Undergraduate Research Grant. Amount: \$500.00

Kozachuk, J. & McConnell, D.S. (2015). The effect of task difficulty in a Fitts' pointing task on stress and cognitive performance. UCF Office of Undergraduate Research, Summer Undergraduate Research Fellowship. Amount: \$1000.00.

McConnell, D.S. & Chaparro, A. (2005). Aging Pilots Literature Review. *Aircraft Owners and Pilots' Association*. Amount funded: \$14,964.00.

University Research/Creative Projects Award, Office of Research Administration, Wichita State University, January 1, 2002 – June 30, 2002. Amount: \$4500.00

National Science Foundation, Research Experiences for Undergraduates Fellowship, Human-Computer Interaction Lab, University of Nebraska-Lincoln, June-July 1993. Stipend amount: \$3000.00

Thesis Supervision

8. Kleiman, D. (2017). A measurement of campus presence: The cognitive link between campus engagement and positive outcomes in college students. Honors in the Major Undergraduate Thesis, University of Central Florida. Role: Chair.

7. Chudy, N. (2017). The performance of Microsoft Band 2 during n-back task: A validity and reliability study. Honors in the Major Undergraduate Thesis, University of Central Florida. Role: Chair.

6. Jaramillo, I. (2015). The role of theory of mind in human-robot interaction. Honors in the Major Undergraduate Thesis, University of Central Florida. Role: Chair.

5. Fund, I. (2015). Input device performance on a steering task. Honors in the Major Undergraduate Thesis, University of Central Florida. Role: Chair.

4. Sablon K. (2014). The dark side: Study of the role of skin tone on consumer perception. Honors in the Major Undergraduate Thesis, University of Central Florida. Role: Chair.

3. Wallace, K. (2014). Risk factors identified in UCF students exhibiting social phobia. Honors in the Major Undergraduate Thesis, University of Central Florida. Role: Chair.

2. Thompson, S.G. (2007). Effects on movement performance as a function of visual-motor scale and velocity: An investigation of the speed-accuracy tradeoff. Doctoral Dissertation, Wichita State University. Role: Chair.

1. Hamblin, C.J. (2005). Transfer of Training of Virtual Reality Environments. Doctoral Dissertation, Wichita State University. Role: Co-Chair

Publications (Submitted and Under Review/Revision)

2. Rupp, M.A., **McConnell**, D.S., & Smither, J.A. (Under Review). Examining associations between action game play and motor control. *Acta Psychologica*.

1. Michaelis, J.R., **McConnell**, D.S., & Smither, J.A. (Under Review) Cognitive restoration as a function of color and content in pictures of nature. *Landscape and Urban Planning*.

Publications (Peer reviewed)

9. Rupp, M.A., Sweetman, R., Sosa, A.E., Smither, J.A., **McConnell**, D.S. (2017). Searching for affective and cognitive restoration: Examining the restorative effects of casual video game play. *Human Factors*, 59(7), 1096-1107.
8. Rupp, M.A., **McConnell**, D.S., & Smither, J.A. (2016). Examining the relationship between action video game experience and performance in a distracted driving task. *Current Psychology*, 1-21, doi: 10.1007/s12144-015-9318-x
7. Wiltshire, T.J., Lobato, E.J.C., **McConnell**, D.S., & Fiore, S.M. (2015). Prospects for direct social perception: A multi-theoretical integration to further the science of social cognition. *Frontiers in Human Neuroscience*, 8, doi:10.3389/fnhum.2014.01007
6. Rupp, M.A., Oppold, P., & **McConnell**, D.S. (2015). Evaluating input device usability as a function of task difficulty in a tracking task. *Ergonomics*, 58(5), 722-735.
5. Bohan, M., **McConnell**, D.S., Chaparro, A., & Thompson, S.G. (2010). The effects of visual magnification and physical movement scale on the manipulation of a tool with indirect vision. *Journal of Experimental Psychology: Applied*, 16(1), 33-44.
4. Thompson, S.G., **McConnell**, D.S., Slocum, J. & Bohan, M. (2007). Kinematic analysis of multiple constraints on a pointing task. *Human Movement Science*, 26, 11-26.
3. Bingham, G.P., **McConnell**, D.S., & Muchisky, M.M. (2001). Commentary on Jacobs and Michaels (2000): Calibration and perceptual learning in event perception. *Perception & Psychophysics*, 63(3), 572-574.
2. Wickelgren, E. A., **McConnell**, D.S., & Bingham, G. P. (2000). Reaching measures of monocular distance perception: forward vs. side-to-side head movements and haptic feedback. *Perception & Psychophysics*, 62(5), 1051-1059.
1. **McConnell**, D.S., Muchisky, M.M., & Bingham, G.P. (1998). The use of time and trajectory forms as visual information about spatial scale in events. *Perception & Psychophysics*, 60(7), 1175-1187.

Books, Chapters, and Technical Reports

6. Stone, N., Chaparro, A., Keebler, J., Chaparro, B., & **McConnell**, D.S. (2017). *Introduction to Human Factors: Applying Psychology to Design*. CRC Press.
5. **McConnell**, D.S. & Fiore, S.M. (2017). A Place for James J. Gibson. In B. Janz (Ed), *Place, Space and Hermeneutics*. Springer Press.
4. **McConnell**, D.S. (2013). *Philosophical and Theoretical Foundations of Psychology*, 3rd ed. Dubuque: IA: Kendall-Hunt.
3. Chaparro, A., **McConnell**, D.S., Miller, C.A., Sifrit, K.J. & Tokuda, S. (2005). *Review of the Effects of Aging as It Relates to Pilots: A Report to the Aircraft Owners and Pilots Association*. Technical Report of the Aircraft Owners and Pilots Association.

2. Chaparro, A., **McConnell**, D.S., Miller, C.A., Sifrit, K.J., & Tokuda, S. (2005). *Annotated Bibliography on the Review of the Effects of Aging as it Relates to Pilots: A Report to the Aircraft Owners and Pilots Association*. Technical Report of the Aircraft Owners and Pilots Association.

1. **McConnell**, D.S. (1998). *Social Psychology: A Learning Guide*. Bloomington, IN: Indiana University School of Continuing Studies Independent Study Program.

Refereed Conference Proceedings

33. Mouloua, A.S., Mouloua, M., Hancock, P.A., & **McConnell**, D.S. (2017). The effects of computer user handedness on a mouse-clicking task. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 61(7), 1220-1223.

32. Rupp, M.A., Michaelis, J.R., **McConnell**, D.S., & Smither, J.A. (2016) The Impact of Technological Trust and Self-Determined Motivation on Intentions to use Wearable Fitness Technology. *Proceedings of the Annual Meeting of the Human Factors and Ergonomics Society International Conference*, Washington, DC.

31. Michaelis, J.R., Rupp, M.A., Kozachuk, J., Ho, B., Zapata-Ocampo, D., **McConnell**, D.S., Smither, J.A. (2016). Describing the User Experience of Wearable Fitness Technology through Online Product Reviews. *Proceedings of the Annual Meeting of the Human Factors and Ergonomics Society International Conference*, Washington, DC.

30. Rupp, M.A., Kozachuk, J., Michaelis, J.R., Odette, K., Smither, J.A., **McConnell**, D.S. (2016). The effects of immersiveness and future VR Expectations on subjective-experiences during an educational 360-degree video. *Proceedings of the Annual Meeting of the Human Factors and Ergonomics Society International Conference*, Washington, DC.

29. Rupp, M.A., Michaelis, J.R., **McConnell**, D.S., & Smither, J.A. (2016) Examining the Usability of Several Wearable Fitness Devices. *International Society for Gerontechnology 10th World Conference*, Nice, France.

28. Rupp, M.A., **McConnell**, D.S., & Smither, J.A. (2016) Usability of assistive robotic interfaces. *International Society for Gerontechnology 10th World Conference*, Nice, France.

27. Michaelis, J.R., **McConnell**, D.S., & Smither, J.A. (2016, September). Cognitive restoration from images of nature. *International Society for Gerontechnology 10th World Conference*, Nice, France.

26. Kozachuk, J.R., & **McConnell**, D.S. (2016, April). An investigation of the effect of the discrete Fitts' pointing task on stress. *Human Factors and Applied Psychology Student Conference*, Embry-Riddle University, Daytona Beach, FL.

25. Chudy, N. S., & **McConnell**, D. S. (2016, April). Performance of the Basis Peak and Microsoft Band 2 during N-back task: A validity and reliability study. *Human Factors and Applied Psychology Student Conference*, Embry-Riddle University, Daytona Beach, FL.

24. Odette, K. L., Rupp, M. A., & **McConnell**, D. S. (2016, April). Event-related desynchronization of the Mu-Rhythm: A literature review. *Human Factors and Applied Psychology Student Conference*, Embry-Riddle University, Daytona Beach, FL.

23. Zapata-Ocampo, D., Ho, B., Rupp, M. A., Michaelis, J. R., **McConnell**, D. S., & Smither, J. A. (2016, April). Describing the user experience of wearable fitness technology through online product reviews. *Human Factors and Applied Psychology Student Conference*, Embry-Riddle University, Daytona Beach, FL.
22. Michaelis, J. R., Rupp, M. A., Montalvo, F., **McConnell**, D. S., & Smither, J. A. (2015). The effect of vigil length on stress and cognitive fatigue. *Proceedings of the Annual Meeting of the Human Factors and Ergonomics Society International Conference*, 59(1), 916-920.
21. Sosa, A., Simon, G., Sweetman, R., Rupp, M.A., & **McConnell**, D.S. (2015). Casual video games as a method to reduce stress and improve mood. *Human Factors and Applied Psychology Student Conference*, Embry-Riddle University, Daytona Beach, FL.
20. Simon, G., Sosa, A., Sweetman, R., Rupp, M.A., & **McConnell**, D.S. (2015). Investigating superstitious beliefs in technology. *Human Factors and Applied Psychology Student Conference*, Embry-Riddle University, Daytona Beach, FL.
19. Montalvo, F., Kozachuk, J., Rupp, M.A., Michaelis, J.R., **McConnell**, D.S., & Smither, J.A. (2015). Examining methods to induce cognitive fatigue. *Human Factors and Applied Psychology Student Conference*, Embry-Riddle University, Daytona Beach, FL.
18. Rosen, M.L., Lewis, J., **McConnell**, D.S., & Neider, M.B. (2014). The effects of stress on distance perception. *Journal of Vision*, 14(10), 1358.
17. Rupp, M.A., Oppold, P., & **McConnell**, D.S. (2013). Comparing the performance, workload and usability of a gamepad and joystick in a complex task. *Proceedings of the Human Factors and Ergonomics Society Annual Meeting*, 57(1), 1775-1779.
16. Gentzler, M., **McConnell**, D.S., Stafford, S., & Smither, J.A. (2013). Enhanced lighting effects on nighttime perception of motorcycle time-to-contact. *Human Factors & Applied Psychology Student Conference*, Embry-Riddle University, Daytona, FL.
15. Michaelis, J.R., Rupp, M.A., & **McConnell**, D.S. (2013). Driver performance in construction zones and accident scenes. *Human Factors & Applied Psychology Student Conference*, Embry-Riddle University, Daytona, FL.
14. Michaelis, J.R., Smither, J.A., & **McConnell**, D.S. (2013). Effects of color and environment on cognitive restoration. *Human Factors & Applied Psychology Student Conference*, Embry-Riddle University, Daytona, FL.
13. Rupp, M.A., **McConnell**, D.S., & Smither, J.A. (2013). The effects of demand characteristics in action video game players studies. *Human Factors & Applied Psychology Student Conference*, Embry-Riddle University, Daytona, FL.
12. Michaelis, J.R., **McConnell**, D.S., & Smither, J.A. (2012). Attention deficit/hyperactivity disorder's effect on individuals' scan paths during a simulated drive. *Work*, 41, 5833-5835.
11. Rupp, M., **McConnell**, D.S., & Smither, J.A. (2012). Determining skill transferability of action games as a method to reduce in-vehicle phone distractions. *Work*, 41, 5880-5881.

10. Deligiannidis, L., **McConnell**, D.S., & Vallee, C. (2009). Visual and proprioceptive integration of the virtual and real fingertips. In L. Lo Bello & G. Iannizzotto (Eds.), *Proceedings of the 2nd International Conference on Human System Interaction*, Catania, Italy (pp. 190-195). Piscataway, NJ: IEEE.
9. Bohan, M., **McConnell**, D.S., Thompson, S.G. & Chaparro, A. (2005). Task and effector constraints on the kinematics of pointing movements. *Proceedings of the 49th annual meeting of the Human Factors and Ergonomics Society*.
8. Slocum, J., Chaparro, A., **McConnell**, D.S. & Bohan, M. (2005). Comparing computer input devices using kinematic variables. *Proceedings of the 49th annual meeting of the Human Factors and Ergonomics Society*.
7. **McConnell**, D.S., Deligiannidis, L. Vallee, C.G., & Munevar, M. (November, 2003). Do you know where your hands are in virtual reality? *Proceedings of the 8th Annual Conference of the International Journal of Industrial Engineering - Applications and Practice*, Las Vegas, NV.
6. **McConnell**, D. S., Vallee, C., Munevar, M., & Lee, R. (2003). Thresholds for detecting a difference between seen and felt position of the hand [Abstract]. *Journal of Vision*, 3(9), 392a, <http://journalofvision.org/3/9/392/>, doi:10.1167/3.9.392.
5. **McConnell**, D.S., Grudic, G., Knill, D., & Kumar, V. (2001). Reach corrections to unnoticed target perturbations [Abstract]. *Journal of Vision*, 1(3), 254a, <http://journalofvision.org/1/3/254>, DOI 10.1167/1.3.254.
4. **McConnell**, D.S., & Bingham, G.P. (1999). Using optic flow and visual direction to guide reaching. In M.A. Grealy & J.A. Thomson (Eds.) *Studies in Perception and Action V*. Hillsdale, NJ : Erlbaum.
3. Wickelgren, E. A., **McConnell**, D.S., & Bingham, G.P. (1997). Monocular distance perception via forward versus lateral head movements. In Schmuckler, M. (ed.), *Studies in Perception and Action IV*. Hillsdale, N.J.: Erlbaum.
2. **McConnell**, D.S., & Bingham, G.P. (1995). Perception of Spatial Scale in Events from Information in Motion. In (B.G. Bardy, R.J. Bootsma, & Y. Guiard, Eds.), *Studies in Perception and Action III*. Hillsdale, NJ: Erlbaum.
1. Wiedenbeck, S., Zila, P.L., & **McConnell**, D.S. (1995) End-User Training: an empirical study comparing on-line practice methods. *Proceedings of CHI'95 Human Factors in Computing Systems*, ACM.

Conference and Invited Presentations

Kozachuk, J., & **McConnell**, D. S. (2016, April). An investigation of the effect of the discrete Fitts' pointing task on stress. UCF Showcase of Undergraduate Research.

McConnell, D.S. (August, 2012). Motorcycle conspicuity. Paper presented at the 120th Annual Convention of the American Psychological Association, Orlando, FL.

Rupp, M., Oppold, P., **McConnell**, D.S., & Mouloua, M. (August, 2012). An analysis of a gamepad using a Fitts' pointing task. Poster presented at the 120th Annual Convention of the American Psychological Association, Orlando, FL.

Michaelis, J.R., Smither, J.A., & **McConnell**, D.S. (April, 2012). The restorative effects of colors of nature on cognitive function. Sixth Annual Florida Student Conference for Human Factors & Applied Psychology, Embry-Riddle University, Daytona, FL.

Michaelis, J.R., Smither, J.A., & **McConnell**, D.S. (April, 2011). The effects of Attention Deficit Hyperactivity Disorder on fixations and saccades duration a simulated driving task. Fifth Annual Florida Student Conferences for Human Factors & Applied Psychology Student Conference, Embry-Riddle University, Daytona, FL.

Rupp, M., **McConnell**, D.S., Gentzler, M., Michaelis, J., & Smither, J.A. (April, 2011). Interpreting visual scanning data in simulated driving environments. Embry-Riddle Human Factors & Applied Psychology Student Conference.

Rupp, M., **McConnell**, D.S., & Smither, J.A. (April, 2011). Testing action game players in simulated distracted driving. Embry-Riddle Human Factors & Applied Psychology Student Conference.

McConnell, D.S. (September, 2010). *On sensation: The status of the retinal image in vision*. Invited talk presented to the Cognitive Sciences Student Association, University of Central Florida, Orlando, FL.

McConnell, D.S. (January, 2010). *Reformulating Fitts' law for indirect pointing*. Invited talk presented to the UCF Psi Chi chapter, University of Central Florida, Orlando, FL.

Hamblin, C.J., Chaparro, A., **McConnell**, D.S., & Toledo, F. (April, 2005). Transfer of training from virtual reality environments. Paper presented at 1st Annual Symposium on Graduate Research and Scholarly Projects (GRASP), Wichita State University.

McConnell, D.S. (June, 2003). *Virtual Reality Applications for Human Factors, Space and Aerospace*. Invited talk given to joint meeting of Kansas chapter of the National Space Society and the Great Plains chapter of the Human Factors/Ergonomics Society.

McConnell, D.S. (October, 2001). *Reach corrections to moving targets*. Wichita State University, Department of Psychology Colloquium (Invited).

McConnell, D.S. (May, 2000). *Visual information for controlling approach to a target*. PIRCS-Fest 2000, Institute for Research in Cognitive Psychology, University of Pennsylvania.

McConnell, D.S., & Bingham, G.P. (April, 1996). *The Perception of Spatial Scale in Events*. Talk given at Seventh Midwest Artificial Intelligence and Cognitive Science Conference, Indiana University, Bloomington, IN.

Muchisky, M.M., **McConnell**, D.S., & Bingham, G.P. (October, 1993). *Trajectory forms in visual events: Identification and Scaling*. Poster presented at North American Meeting of The International Society for Ecological Psychology, Smith College, Northampton, MA.

Other Presentations

McConnell, D.S. (July, 2017). *Presence and Place on Campus: Integrating Enactive Cognition and Ecological Psychology to Examine Individuals' Relationship with their Environment*. Institute for Simulation and Training, University of Central Florida.

McConnell, D.S. (February, 2016). *Dynamic discontinuities in a discrete aiming task*. Talk presented to the UCF Psychology Department, Applied Experimental and Human Factors Brown Bag.

McConnell, D.S. (February, 2012). *Fitts' law and indirect pointing*. Talk presented to the UCF Psychology Department, Applied Experimental and Human Factors Brown Bag.

McConnell, D.S. (September, 2006). *Continuous Feedback Processing of Pointing Movements*. Talk presented to the Psychology Department, Wichita State University, Human Factors Tea Series.

McConnell, D.S. (March, 2006). *Haptic Perception of Spatial Relations by Blind and Sighted Persons*. Talk presented to the Psychology Department, Wichita State University, Human Factors Tea Series.

McConnell, D.S. (February, 2006). *Physical Fitness, Aging and Motor Performance*. Talk presented to the Psychology Department, Wichita State University, Human Factors Tea Series.

McConnell, D.S. (September, 2005). *Seeing by feeling: Tactile graphics for the visually impaired*. Talk presented to the Psychology Department, Wichita State University, Human Factors Tea Series.

McConnell, D.S. (August, 2005). *Older pilots don't leave the turn signal on for two miles!* Talk presented to the Psychology Department, Wichita State University, Human Factors Tea Series.

McConnell, D.S. (September, 2004). *Kinematic features of reach corrections with and without visual feedback*. Talk presented to the Psychology Department, Wichita State University, Human Factors Tea Series.

McConnell, D.S. (February, 2002). *The effects of microgravity on motor performance: Reaching adaptation and learning*. Talk presented to the Psychology Department, Wichita State University, Human Factors Tea Series.

McConnell, D.S. (October, 2000). *The role of perception in the control of bimanual rhythmic movements*. Talk presented to the Psychology Department, University of Pennsylvania, Cognitive Tea Series.

McConnell, D.S. (November, 1999). *Can optic flow be used to control goal-directed action under perturbation of visual direction?* Talk presented to the Psychology Department, University of Pennsylvania, Cognitive Tea Series.

McConnell, D.S. (March, 1999). *The use of optic flow and visual direction in the control of visually guided behavior*. Talk presented to the Psychology Department, Indiana University, Cognitive Lunch Series.

Teaching and Related Experience

Lecturer, Department of Psychology, University of Central Florida	2007-Pres
Assistant Professor, Department of Psychology, Wichita State University	2001-2007
Graduate Instructor, Department of Psychology, Indiana University	1996-1999
Instructor, Independent Study Program, Indiana University School of Continuing Studies	1995-1999
Teaching Assistant, Department of Psychology, Indiana University	1993-1999
Laboratory Assistant, Perception/Action Lab, Indiana University	1993-1999
Research Assistant, Face Perception Lab, Indiana University	1992-1993
Research Assistant, Behavioral Economics Lab, Indiana University	1991-1992

Courses Taught

History & Systems of Psychology
Introductory/General Psychology
Cognitive Psychology
Research Methods in Psychology
Advanced Research Methods in Psychology
Principles of Human Factors Psychology
Sensation & Perception
Developmental Psychology
Physiological Psychology
Psychology of Language
Social Psychology (independent study version)
Graduate Seminar in Sensation & Perception
Graduate Seminar in Motor and Sensory Processes
Graduate Seminar in Human Learning and Cognition

Professional Awards, Activities and Development

Ad hoc reviewer: Journal of Military Psychology, Cognitive Technology, Perceptual and Motor Skills

University of Central Florida Teaching Incentive Program Award, 2017. \$5,000 salary increase based on excellence in teaching from 20012-2017.

February 2015: Attendee and Presenter, Wiley Summit on Technology in Higher Education

UCF Summer Faculty Development Conference, 2010-2017

Faculty judge for UCF Showcase of Undergraduate Research Excellence, 2012-2013.

University of Central Florida Teaching Incentive Program Award, 2012. \$5,000 salary increase based on excellence in teaching from 2007-2011.

U-Pace Training Workshop Travel Award (\$500) to attend Society for Teaching of Psychology Best Practices Conference, October 2012.

May 2012: Writing Across the Curriculum Fellow.

Member: Association for Psychological Science. (2010-2011)

UCF Winter Faculty Development Conference, 2010

May 2009: Best Paper Award in the area of Human Machine Interaction, Human System Interaction Conference, Catania, Italy.

Fall 2008: IDL6543 Certification for Online Course Development and Delivery, University of Central Florida Course Development & Web Services Department.

Summer 2000: Reviewer of Poster Submissions, 22nd Meeting of the Cognitive Science Society, University of Pennsylvania.

Spring 1996: Reviewer of Poster Submissions, American Psychological Society Annual Meeting in San Francisco.