

Curriculum Vitae
Michael Douglas Hampton
Office of Interdisciplinary Studies
University of Central Florida
Orlando, FL 32816

Education

Undergraduate: B. S., 1975	University of Florida, Gainesville, Florida Chemistry Major, Mathematics Minor
Graduate Ph. D., 1980	Texas Tech University, Lubbock, Texas Analytical Chemistry Major, Biochemistry Minor Dissertation: "Synthesis, Crystal Structure, and Reactivity of a 12-Crown-4 Sandwich Complex of Manganese(II)"
Postdoctoral Fall, 1980 – Spring, 1981	Texas Tech University, Lubbock, Texas Dr. Jerry L. Mills, Inorganic Chemistry "Synthesis of Trimethyl Borane"

Employment History

University of Central Florida

Interdisciplinary Studies:

Director, July 15, 2008 – January 8, 2015

Interim Director, August 13, 2007 – July 14, 2008

Department of Chemistry:

Full Professor, April, 2003 to Present.

Associate Professor, August, 1987 to March, 2003.

Assistant Professor, August, 1981 to July, 1987.

Florida Solar Energy Center

Courtesy appointment, Senior Research Scientist, 2001 – present.

NASA

Materials Engineer, Materials Testing Branch, Kennedy Space Center, November, 1984 to December, 1988.

Texas Tech University, Department of Chemistry and Biochemistry

Visiting Assistant Professor, Fall, 1980 through Spring, 1981.

Graduate Teaching and Research, Fall, 1975 through Spring, 1980.

Other Professional Positions

Deputy Editor-in-Chief, "International Journal for Alternative Fuel and Ecology", ISSN 1608-8298, currently underwritten by All Russian Institute of Experimental Physics, 2001 to present.

Deputy Editor-in-Chief, "International Journal of Astronautics", currently underwritten by All Russian Institute of Experimental Physics, Fall, 2009 to present. Journal still just being established.

Editor, "NATO Advanced Research Workshop on Hydrogen Materials Science and Chemistry of Metal Hydrides", NATO Science Series, II. Mathematics, Physics and Chemistry – Vol. 71, Kluwer Academic Publishers, 2002. ISBN 1-4020-0730-2. 483 pages., underwritten by NATO, 1999 – 2002.

Materials Engineer, NASA, Materials Testing Branch, Kennedy Space Center, November, 1984 to December, 1988.

Honors and Awards

Nominated for 2013 Eni Award.

Inducted into Sigma Pi Sigma, National Physics Honor Society, April 15, 2010.

Awarded Jefferson Science Fellowship with the Department of State and the National Academy of Sciences, 2007.

Awarded the Peter the Great Order for the Contribution to the Development of International Relations in Exchanging Energy Technologies, awarded by the editors of the Journal for Alternative Energy and Ecology, 2007.

Certificate of Recognition for Research Contributions made through the 2001 NASA summer faculty fellowship program at the John F. Kennedy Space Center, 2001.

Certificate of Recognition for Research Contributions made through the 2000 NASA summer faculty fellowship program at the John F. Kennedy Space Center, 2000.

Certificate of Appreciation, from NASA and John F. Kennedy Space Center, for outstanding efforts in assisting NASA's Materials Science Lab by performing xray photoelectron spectroscopy analysis, March 23, 2000.

University of Central Florida Teaching Incentive Program (TIP) Award, 1994, 1997.

Nominated for listing in *Who's Who in the World*, 1995-1996.

Excellence in Undergraduate Teaching Award, College of Arts & Sciences, UCF, 1990, 1995.

Outstanding 4-Year College Teacher Award, Orlando Section American Chemical Society, 1994.

Chairman's Award for Outstanding Support, Orlando Section American Chemical Society, 1994.

Listed in *Who's Who*

in American Education, 1992-3.

in the World, 1992-1993.

Among Young American Professionals, 1992-1993.

in Finance and Industry 1992-3.

in the South and Southwest, 1991.

in Finance and Industry, 1991.

in Science and Engineering, First Edition, 1991.

Inducted into Phi Kappa Phi, April, 1992.

First Annual Outstanding Chemist Award, Orlando Section American Chemical Society, 1991.

1990 Up and Comers Award.

Outstanding Achievement in Graduate German Research, Texas Tech University, 1979.

Outstanding Graduate Instructor, Texas Tech University, Department of Chemistry, 1978.

Funding

Research and Interdisciplinary Studies

Michael D. Hampton, "Computer Equipment for Instruction of GIS in Interdisciplinary Courses", \$61,575.30 requested. **Funded for \$62,573.50 for July, 2011. Credit to Hampton, 100 %.**

Michael D. Hampton, "Funds for Assessment and Instructional Equipment in Interdisciplinary Studies", LIFE@UCF, **requested \$1,396.20. Funded for \$1,400. August, 2010. Credit to Hampton, 100 %.**

Michael D. Hampton and Kim Showalter, "Interdisciplinary Studies and Aviation", submitted to Wolf Aviation Fund, requested \$4,400 for the period 10/1/09 – 9/30/10. **Funded for \$1,500. Credit to Hampton, 100 %, \$1,500.**

Michael D. Hampton and Marcelle Turner, "Funds for Interdisciplinary Studies Marketing Materials", LIFE@UCF, **requested \$2,000. Funded for \$1,500. August, 2009. Credit to Hampton, 100 %.**

Michael D. Hampton, "Funds for Development of Interdisciplinary Studies Journal", LIFE@UCF, **requested \$2,000. Funded for \$1,500. August, 2008. Credit to Hampton, 100 %.**

Michael D. Hampton, "Funds for Recruitment and Program Development in Interdisciplinary Studies", LIFE@UCF, **requested \$2,000. Funded for \$1,000. August, 2007. Credit to Hampton, 100 %.**

Michael D. Hampton and Darlene K. Slattery, "Hydrogen and Helium Recovery and Purification", submitted to NASA, requested \$89,999.52 for the period 10/1/03 – 9/30/04. **Funded for \$89,999.52. Credit to Hampton, 100 %, \$89,999.52.**

Michael D. Hampton, "Development of New Infrared Screening Materials", submitted to Engineering Technology, Incorporated, Sept. 5, 2003. Requested \$26,812.32 for the period 10/1/03 to 3/31/04. **Funded for \$26,812.32. Credit to Hampton, 100 %, \$26,812.32.**

Undergraduate Teaching Equipment, on behalf of department for freshman laboratory equipment, submitted to UCF Office of Undergraduate Studies, March 7, 2003. Requested \$19,719.76. **Funded for \$16,000. Credit to Hampton, 100 %, \$16,000.**

Michael D. Hampton, "Development of Complex Hydride Materials", UCF Undergraduate Research Initiative, submitted 10/30/02 for period 11/1/02 – 10/31/03. Requested \$3,000. **Funded for \$3,000. Credit to Hampton, 100 %, \$3,000.**

Michael D. Hampton, "X-Ray Diffraction Spectrometer", Presidential Initiative to Fund Major Research Equipment, March 5, 2003. Requested \$29,559. **Funded for \$29,559. Credit to Hampton, 100 %, \$29,559.**

Michael D. Hampton, "Hydrogen Sensors for Spaceport and Spacecraft Applications", Florida Space Grant Consortium, grant period May 15, 2003 – May 15, 2004, submitted March 7, 2003. Requested \$31,134. **Pending.**

Michael D. Hampton, "Metal Alloys for Hydrogen Recovery and Purification", pre-proposal submitted to Hydrogen Research at Florida Universities Program, April 15, 2002, \$62,000. **Funded for \$60,000 for the period June 1, 2002 – Sept. 30, 2003. Credit to Hampton, 100 %, \$60,000.**

Michael D. Hampton, Lucille A. Giannuzzi, and C. Suryanarayana, "Hydrogen/Metals Interactions", pre-proposal submitted to Hydrogen Research at Florida Universities Program, April 15, 2002, \$80,000. **Funded for \$80,000 for the period June 1, 2002 – Sept. 30, 2003. Credit to Hampton, 30 %, \$26,667.**

"New Hydrogen Storage Materials and a Study of Property-Structure Relationships," Mike Hampton and Lucille Giannuzzi, Florida Space Grant Consortium, \$37,000, 8/01-7/02, OSR# 11-64-947, 11-64-023

Michael D. Hampton and Lucille A. Giannuzzi, "New Hydrogen Storage Materials Based on Mechanically Alloyed Mixtures and Metal Foams", submitted to Florida Space Grant Consortium March 1, 2002. \$35,360. **Funded for \$27,000 for the period May 1, 2002 – April 30, 2003. Credit to Hampton, 50 %, \$13,500.**

Darlene K. Slattery and Michael D. Hampton, "Complex Hydrides for Hydrogen Storage", submitted to DOE March 7, 2001. \$312,538. **Funded, \$312,538 for the period July 1, 2001 – Oct. 31, 2002. Credit to Hampton, 50 %, \$156,269.**

Michael D. Hampton and Lucille A. Giannuzzi, "New Hydrogen Storage Materials and a Study of Property-Structure Relationships", submitted to Florida Space Grant Consortium March 2, 2001. \$42,000 for the period Aug. 1, 2001 to July 31, 2002. **Funded, \$35,000 for the period Aug. 1, 2001 – July 31, 2002. Credit to Hampton, 50 %, \$17,500.**

Michael D. Hampton, "Development of Real Time Hydrogen Sensors", submitted to UCF Office of International Studies, for Faculty International Studies Summer Institute. **Funded, \$1,000 plus participation in institute, April 29 – May 3, 2002. Credit to Hampton, 100 %, \$1,000.**

Michael D. Hampton, "NATO Advanced Research Workshop on Hydrogen Materials Science and Chemistry of Metal Hydrides", publication supplement grant, submitted to NATO for funding under the Science Program Advanced Research Workshop High Technology Area, June 23, 2000. 100,000 Belgian Francs. **Funded for 100,000 Belgian Francs (\$4,494). Credit to Hampton, 100 %, \$4,494.**

Nuclear Proliferation Threat Reduction Work

Note: The goal of this work is to work with the US State Department and scientists in the former Soviet Union find funding for, and successfully carry out, peaceable research. My part in the projects is to oversee the work and the results and consult with the researchers to keep the projects moving forward, to help

with reporting and publishing results, and to act as liaison between funding agency and researchers. Funding from the projects is available for me to travel to the research site as necessary. The rest of the funds are for the researchers to utilize in the work. Therefore, I have not listed the funding nor included it in my totals in any way.

Michael D. Hampton in collaboration with group in All-Russian Institute for Experimental Physics, ISTC project #1580, "Hydrogen Sensors for Vacuum Cryogenic Objects," submitted to International Science and Technology Center , Moscow, Russia. **Funded.**

Michael D. Hampton in collaboration with group in Ukrainian Academy of Sciences, STCU project #959, "Vacuum Plasma Hardening of Materials for Constructions and Formation of Functional Layers with the Using of Activation of Hydrogen Isotopes by Hydride Forming Compounds," submitted to Science and Technology Center of Ukraine , Kiev, Ukraine. **Funded.**

Michael D. Hampton in collaboration with group in Russian Academy of Sciences, ISTC project #2244, "Characterization of Fire and Explosion Ability of Metal Hydrides Powder and Development of Explosion Prevention and Protection Measures," submitted to International Science and Technology Center , Moscow, Russia. **Pending.**

Michael D. Hampton in collaboration with group in Institute of Terrestrial Magnetism, Ionosphere, and Radio Wave Propagation of the Russian Academy of Sciences and the Russian Federal Nuclear Center – All Russian Research and Development Institute of Experimental Physics, ISTC project #1725, "Satellite Monitoring of Ionospheric Forerunners of Earthquakes by Radio-Physical and Radio Engineering Methods". submitted to International Science and Technology Center , Moscow, Russia. **Pending.**

Michael D. Hampton in collaboration with group in Russian Academy of Sciences, ISTC project # 2026 "Writing of the Monograph Electrosorption Phenomena in Screen-Vacuum Heat Insullayers". submitted to International Science and Technology Center , Moscow, Russia. **Pending.**

Applied for NASA/ASEE Summer Faculty Fellowship at Kennedy Space Center for summer, 2001. Awarded March 17, 2001 for period of May 21 – July 27, 2001, \$10,000. Credit for Hampton, 100%, \$10,000.

Lucille Giannuzzi and Michael Hampton, "NASA PhD Fellowship for Janice Lomness", submitted to Florida Space Grant Consortium, Aug., 1999. \$6,000. Funded for 9/00-8/01. Credit for Hampton, 50%, \$3,000.

Applied for NASA/ASEE Summer Faculty Fellowship at Kennedy Space Center for summer, 2000. Awarded April 10, 2000 for period of May 15 – July 21, 2000, \$10,000. Credit for Hampton, 100%, \$10,000.

Michael D. Hampton and Lucille A. Giannuzzi, "New Hydrogen Storage Materials and a Study of Property-Structure Relationships", submitted to Florida Space Grant Consortium March 2, 2001. \$42,000 for the period Aug. 1, 2001 to July 31, 2002. Funded for \$35,000. Credit for Hampton, 50%, \$17,500.

Michael D. Hampton, "Hydrogen Materials Science and the Chemistry of Metal Hydrides", submitted to NATO, Dec., 1998. Funded, May, 1999. 1.665 million Belgian Francs (About \$43,000). Credit for Hampton, 100%, \$43,000.

Michael D. Hampton and Darlene Slattery, "Surface Modifications of Magnesium Nickel Alloy by Organic Solvents in Liquid and Vapor Phases", submitted to UCF Vice President for Research and Graduate Studies under College and Center/Institute Research Initiative program, Jan. 14, 1998. \$23,638, Funded for May - August, 1998. Credit for Hampton, 100%, \$23,638.

Michael Hampton, Sudipta Seal, and Franno Barbir, "Hydrogen Storage in Quasicrystals of Titanium-Zirconium-Nickel and Titanium-Magnesium-Nickel Alloys", submitted to Florida Space Grant Consortium, Jan., 1998. \$10,000. Funded for 5/98-5/99. Credit for Hampton, 50%, \$5,000.

Sudipta Seal, Kalpathy Sundaram, Vimal Desai, and Michael Hampton, "Fabrication and Characterization of Nanophase Materials for Space Applications", submitted to Florida Space Grant Consortium, Feb., 1998. \$8,000. Funded for 5/98-5/99. Credit for Hampton, 25%, \$2,000.

Sudipta Seal and Michael Hampton, "NASA PhD Fellowship for Janice Lomness", submitted to Florida Space Grant Consortium, Feb., 1998. \$17,000. Funded for 8/98-8/99. Credit for Hampton, 50%, \$8,500.

"Advanced Materials Processing and Analysis Center: Stage I," Co PI's: V.H. Desai, A.J. Kassab, L.A. Giannuzzi, M. Pais, S.L. Rice, J. Nayfeh, A. Minardi, P. Bishop, A. Kar, K. Sundaram, D. Malocha, M. Johnson, L. Chow, G. Stegeman, W. Luo, A. Shulte, R. Peale, O. Heinonen, M. Richardson, L. Glebov, K. Richardson, M. Hampton, C. Clausen, A. Raissi, N. Dhere, A. Mirmiran, Y. Hosni, Division of Sponsored Research, University of Central Florida, \$50,000, August 1, 1996 - December 31, 1997. OSR# 20-01-001

Michael D. Hampton and Christian Clausen "Phase II - The Development of Test Procedures for Determining the Concentration of Additives in JP-8 Jet Fuel", Submitted to United Technologies Pratt & Whitney Fuels and Lubricants Group, March 6, 1997, \$19,354, Funded. Credit for Hampton, 50%, \$9,677.

Michael D. Hampton, "Travel to the Ukraine to Present Key Presentation at the 5th International Conference on Hydrogen Materials Science and Chemistry of Metal Hydrides, Katsiveli, Yalta, Ukraine, Sept. 2-8, 1997, \$1,625, funded by NATO through the conference organizers. Credit for Hampton, 100%, \$1,625.

Research Grant United Technologies Pratt & Whitney Fuels and Lubricants Group, Co-PI with Christian Clausen "The Development of Test Procedures for Determining the Concentration of Additives in JP-8 Jet Fuel", March 6 - Dec. 31, 1996, \$15,599, Funded. Credit for Hampton, 50%, \$7,799.

Florida Solar Energy Center, "Hydrogen Storage Compounds", Funded, \$10,000 for the period 10/1/93 - 11/30/94. Credit for Hampton, 100%, \$10,000.

Michael D. Hampton, Council on Undergraduate Research Academic-Industrial Undergraduate Research Fellowship, \$2500. Funded for \$2500 for the summer, 1992. Credit for Hampton, 100%, \$2500.

Department of Energy, National Renewable Energy Laboratory, "Hydrogen Storage Compounds", Funded, \$11,500 for the period 11/1/91 - 9/30/92. Credit for Hampton, 100%, \$11,500.

Department of Energy, Solar Energy Research Institute, "Hydrogen Storage Compounds", Funded, \$66,000 for the period 11/1/90 - 10/31/91. Credit for Hampton, 100%, \$66,000.

University of Central Florida Division of Sponsored Research Grant, "Use of Piezoelectric Oscillators as Chemical Sensors", Funded, \$1,200 for the period 7/1/88 – 7/31/89. Credit for Hampton, 100%, \$1,200.

University of Central Florida Division of Sponsored Research Grant, "Paired Piezoelectric Oscillators", Funded, \$4,900 for the period 7/1/87 – 6/30/88. Credit for Hampton, 100%, \$4,900.

University of Central Florida In-House Research Grant, "Membrane Electrodes" Funded, \$5,000.00 for the period 7/1/85 – 6/30/86. Credit for Hampton, 100%, \$5,000.

University of Central Florida In-House Research Grant. "Development, Construction, and Characterization of a New Technique for the Observation of CIDNP in Electrochemically Initiated Reactions" Funded, \$2,800.00 for the period 2/83 – 5/84. Credit for Hampton, 100%, \$2,800.

Research Corporation, Cottrell Research Grant. "Design, Construction, and Characterization of a New Apparatus for the Observation of CIDNP in Electrochemically Initiated Reactions". Funded, \$5,000.00 for the period 7/1/83 – 6/30/84. Credit for Hampton, 100%, \$5,000.

Naval Research Laboratory, "Ion Selective Electrodes" Funded, \$8,986.53 for the period 7/1/83 – 6/30/84. Credit for Hampton, 100%, \$8,986.

Naval Research Laboratory, "Acoustic Composites" Funded, \$800.00 for the period 7/1/82 – 6/30/83. Credit for Hampton, 100%, \$800.

Teaching

"Undergraduate Teaching Equipment Across the University", authored along with Dr. Keith Koons (Department of Music), submitted to Provost for 2002-2003 budget, \$500,000. **Funded for \$400,000 for 2002 – 2003 academic year. Credit to Hampton, 50 %, \$200,000.**

Michael D. Hampton, "Classroom Improvements for CH 202", submitted to Vice President on behalf of Department Sept. 30, 1996, \$11,600 (Phase I), \$35,000 (Phase II), Phase I Funded 4/16/97. Credit for Hampton, 100%, \$11,600.

Michael D. Hampton and Brooks C. Madsen, "The Development of Computer Based Instructional Materials for Analytical Chemistry", submitted to the Higher Education Consortium, Feb. 4, 1997. \$7,500, Funded for \$7,875. Credit for Hampton, 50%, \$3,937.

Dean's Initiative Award, Co-PI with Kathleen Richardson, "Infusion of Technology into the Chemistry Classroom", 2/96 - 6/96, Funded, \$4,566. Credit for Hampton, 50%, \$2,283.

Training Grant, Co-PI with Jacqueline Smith, NASA Undergraduate Student Researcher Program, 8/15/93 - 8/15/94, Funded, \$12,000. Credit for Hampton, 50%, \$6,000.

Training Grant, Co-PI with Jacqueline Smith, NASA Undergraduate Student Researcher Program, 8/15/92 - 8/15/93, Funded, \$12,000. Credit for Hampton, 50%, \$6,000.

Institute of Chemical Education, "University Affiliate Grant", Funded, \$5,000 for the period 6/15/89 – 8/31/90. Credit for Hampton, 100%, \$5,000.

University of Central Florida Undergraduate Studies Grant, "Classroom Experiments for Chemistry Courses Without Laboratories" Funded, \$4,500.00 for the period 8/89 – 8/90. Credit for Hampton, 100%, \$4,500.

American Chemical Society, Education Division. "Chemical Magic Show" Funded, \$250.00 for the period 8/84 – 6/85. Credit for Hampton, 100%, \$250.

Publications

Research, Books, Peer Reviewed, International

NATO Advanced Research Workshop on Hydrogen Materials Science and Chemistry of Metal Hydrides, NATO Science Series, II. Mathematics, Physics and Chemistry – Vol. 71, Michael D. Hampton, Editor along with Dmitry V. Schur, Svetlana Yu. Zaginaichenko, and V. I. Trefilov. Kluwer Academic Publishers, 2002. ISBN 1-4020-0730-2. 483 pages.

Research, Papers, Peer Reviewed, International Journals

B. P. Pearman, N. Mohajeri, R. P. Brooker, M. P. Rodgers, D. K. Slattery, M. D. Hampton, D. A. Cullen, and S. Seal, The Chemical Behavior and Degradation Mitigation Effect of Cerium Oxide Nanoparticles in Perfluorosulfonic Acid Polymer Electrolyte Membranes Polymer Degradation and Stability. *Polymer Degradation and Stability*, Accepted 5-27-13.

B. P. Pearman, N. Mohajeri, R. P. Brooker, M. P. Rodgers, D. K. Slattery, M. D. Hampton, D. A. Cullen, and S. Seal, The Degradation Mitigation Effect of Cerium Oxide in Polymer Electrolyte Membranes in Extended Fuel Cell Durability Tests. *J. Power Sources*, 75-83 (2013).

J. L. Coutts, C. L. Geiger, C. A Clausen, M. D. Hampton, "The Use of Mechanical Alloying for the Preparation of Palladized Magnesium Bimetallic Particles for the Remediation of PCB's", *Journal of Hazardous Materials*, **192**,1380, 2011.

M. T. Oztek, M. D. Hampton, D. K. Slattery, and S. Loucks, "Hydrogen Storage with Hetero Porphyrin Aggregates", *International Journal of Hydrogen Energy*, **36**, 6705 (2011).

M. T. Oztek, M. D. Hampton, D. K. Slattery, S. Loucks, "Properties of Aggregates of Anionic-Cationic Porphyrins: TCPP and TAP", from Preprints of Symposia – American Chemical Society, Division of Fuel Chemistry (2007), 52(1), 102-103.

"Heavy Metal Remediation of Soil and Sediments by Application of Emulsified Liquid Membrane Technology", Debbie B. Maxwell Robert W. DeVor, Kristen M. Milum, Brian Aitken, Rachel Calabro, Michael D. Hampton, Cherie L. Geiger, Christian A. Clausen, Jacqueline Quinn, accepted for publication in the Proceedings of the Fourth International Conference on Remediation of Contaminated Sediments, Savannah, GA, Jan. 22-25, 2007.

M. D. Hampton, D. K. Slattery, M. T. Oztek, "Alloys for Hydrogen Separation, Recovery and Purification", *Int. Sci. J. Alternative Energy and Ecology*, **4(48)**, 46 (2007).

D. Cauceglia, M. D. Hampton, J. K. Lomness, D. K. Slattery, and M. Resan, "Hydrogen Uptake Characteristics of Mechanically Alloyed Ti-V-Ni", *Journal of Alloys and Compounds*, **417**, 159 (2006).

Mirna Resan, Michael D. Hampton, Janice K. Lomness, and Darlene K. Slattery, "Effect of Ti_xAl_y Catalysts on Hydrogen Storage Properties of $LiAlH_4$ and $NaAlH_4$ ", *International Journal of Hydrogen Energy*, **30**, 1417 (2005).

M. Resan, M. D. Hampton, J. K. Lomness, and D. K. Slattery, "The Effects of Various Catalysts on Hydrogen Release and Uptake Properties of $LiAlH_4$ ", *International Journal of Hydrogen Energy*, **30**, 1413 (2005).

M. D. Hampton, D. K. Slattery, N. Jafari-Mohajery, and J. Lomness, "The Use of Alanates for Hydrogen Storage", *Alternative Energy and Ecology*, Special Issue: Collection of theses of the Second International Symposium on Safety and Economy of Hydrogen Transport, 2003, pg. 78.

Michael D. Hampton, Janice K. Lomness, and Lucille Giannuzzi, "Surface study of liquid water treated and water vapor treated $Mg_{2.35}Ni$ alloy", *International Journal of Hydrogen Energy*, **27**, 79 (2002).

Janice K. Lomness, Lucille A. Giannuzzi, Michael D. Hampton, "Site Specific TEM Characterization of Micrometer Sized Particles Using the FIB Lift-Out Technique", *Microscopy and Microanalysis*, **7(5)**, 418 (2001). **Figure 1 from this article was chosen as the cover art for this issue of the journal.**

Janice K. Lomness, Michael D. Hampton, Lucille A. Giannuzzi, "Hydrogen Uptake Characteristics of Mechanically Alloyed Mixtures of Ti-Mg-Ni", *Int. J. Hydrogen Energy*, **27**, 915 (2002).

Michael D. Hampton, Janice K. Lomness, and Lucille Giannuzzi, "Surface study of liquid water treated and water vapor treated $Mg_{2.35}Ni$ alloy", *International Journal of Hydrogen Energy*, **27**, 79 (2002).

Michael D. Hampton, Rajkumar Juturu, and Janice K. Lomness, "Activation of Mg_2Ni for Initial Hydrogen Uptake, by Water Vapor", *International Journal of Hydrogen Energy*, **24(10)**, 981 (1999).

Michael D. Hampton and Janice K. Lomness, "Water Activation of Mg_2Ni for Hydrogen Uptake", *International Journal of Hydrogen Energy*, **24**, 175 (1999).

Gary L. Wood, Christopher Tillman, and Michael D. Hampton, "Synthesis of 1,1,1,3,3,3-hexachloro-2,4-isobutylcyclophosphaz(V)anecyclophosphazane. An Inorganic Experiment", *J. Chem. Ed.*, **72(6)**, 547 (1995).

Michael P. McCann and Michael D. Hampton, "Detection of Molecular Hydrogen by Stimulated Raman Emission", *Applied Spectroscopy*, **48(4)**, 537 (1994).

R. Zidan, D. Slattery, M. D. Hampton, and A Raissi, "Chemical Storage of Hydrogen in Metal Hydrides", *Proceedings of the DOE/SERI Program Review*, Washington, DC, Jan., 1991.

B. J. Lockhart, M. D. Hampton, C. J. Bryan, *Symposium on Flammability and Sensitivity of Materials in Oxygen-Enriched Atmospheres: Fourth Volume*, ASTM STP 1040, J. M. Stoltzfus, F. J. Benz, and J S. Stradling Ed., American Society for Testing and Materials, Philadelphia, PA, 1989.

Coleman J. Bryan and Michael D. Hampton, "A Method to Determine Propellant Handlers Ensemble Fabric Degradation", ASTM Special Technical Publication (1989), 1037 (Chem. Prot. Clothing Perform. Chem. Emerg. Response), 185-194.

Coleman J. Bryan and Michael D. Hampton, "The Oxygen Sensitivity/Compatibility Ranking of Several Materials by Different Test Methods", ASTM Special Technical Publication (1989), 1040 (Flammability Sensitivity Mater. Oxygen Enriched Atmos., 4th Vol.), 93-105.

M. D. Hampton, W. Rees, S. Hall, and J. L. Mills, "Trimethyl Borane." *Inorganic Syntheses*, **29**, (1989).

Michael D. Hampton, Craig A. Peters, Lisa A. Wellington, "Response of Poly(vinyl chloride) Electrodes Based on the Neutral Carrier 1,4,7,10-tetraoxacyclododecane", *Analytica Chimica Acta*, **194**, 171 (1987).

Benjamin B. Hughes, Curtis R. Haltiwanger, Cortlandt G. Pierpont, Michael D. Hampton, Gary L. Blackmer, "Synthesis and Structure of a 12-Crown-4 Sandwich Complex of Manganese(II), bis(1,4,7,10-tetraoxacyclododecane)manganese(II) tribromide", *Inorganic Chemistry*, **19(6)**, 1801 (1980).

Research, Papers, Peer Reviewed, Proceedings

Courtney Paradise, Michael Hampton, Brandan Wormsbacher, Juliano Llano, Sharon Ackerman, Cary Pellizeri, Bettina Rodriguez, and Katherine Ferstadt, "Our Friend the Atom", Abstracts of Papers, 237th ACS National Meeting, Salt Lake City, UT, Marcy 22-26, 2009.

Michael D. Hampton, Darlene K. Slattery, N. Jafafi-Mohajeri, Mirna Franjic, and Janice K. Lomness, "Complex Hydrides as Hydrogen Storage Media", Symposium P1, "Hydrogen Electrochemistry and Generating Systems", Proceedings of the 203rd Meeting of the Electrochemical Society, Paris, France, April 27 – May 2, 2003.

Michael D. Hampton, Darlene K. Slattery, Mirna Franjic, and N. Jafafi-Mohajeri, "Alanates for Hydrogen Storage", Proceedings of the International Forum – Symposium on Safety and Economy of Hydrogen Storage and Transport, Sarov, Russia, Aug. 18 – 21, 2003.

Janice K. Lomness, Michael D. Hampton, and Lucille A. Giannuzzi, "Hydrogen Storage in Titanium-Magnesium-Nickel Mixtures", Materials Research Society Symposium Proceedings, Vol. 53, BB7.9.1, 2003.

Darlene K. Slattery, Michael D. Hampton, Janice K. Lomness, Nahid Najafi-Mohajeri and Mirna Franjic, "Hydrogen Storage Using Complex Hydrides", Proceedings of the 225th National Meeting of the American Chemical Society, New Orleans, LA, March 24 – 27, 2003.

Michael D. Hampton, Janice K. Lomness, and Lucille A. Giannuzzi, "Hydrogen Storage in Titanium-Magnesium-Nickel Mixtures", Symposium BB, "Defect Properties and Related Phenomena in Intermetallic Alloys", Proceedings of the MRS Meeting, Boston, MA, Dec., 2002.

Darlene K. Slattery and Michael D. Hampton, "Complex Hydrides for Hydrogen Storage", Proceedings of the 2002 US DOE Hydrogen Program Review, NREL/CP-610-32405, pp , 2002.

Orlando Melendez, Martha Williams, Michael Hampton, Gordon Nelson, and Erik Weiser, "Surface Evaluation by X-ray Photoelectron Spectroscopy of High Performance Polyimide Foams

After Exposure to Oxygen Plasma”, Proceedings of the 43rd AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics,, and Materials Conference, Denver, CO, April, 2002.

Gusev A.L., Hampton M.D., Zolotuchin I.V., Kalinin J.E., Ponomarenko A.T., Travkin V.S., Veziroglu T.N. “Superinsulation: New Effects, Structures, Design Principles”, Extended Abstracts of the "Eurofillers' 01" Conference, Juli 9-12, 2001, Technical University of Lodz (Poland), C-10, pp.102/C-10/1-103/C-10/2.

Michael D. Hampton, “Surface Evaluation by XPS of High Performance Foams After Exposure to Oxygen Plasma”, 2001 Research Reports of the NASA/ASEE Summer Faculty Fellowship Program, NASA CR-2001-210265, pp. 74, E. R. Hosler and C. Black, Editors, October, 2001.

Michael D. Hampton, Janice K. Lomness, and Lucille Giannuzzi, “The Role of Water in the Storage of Hydrogen in Metals”, 2000 Research Reports, NASA/ASEE Summer Faculty Fellowship Program, NASA CR-2001-210260, E. Ramon Hosler and G. Buckingham Editors, Nov. 2000, pp. 63.

Janice K. Lomness, Lucille A. Giannuzzi, Michael D. Hampton, “Site Specific TEM Characterization of Micrometer Sized Particles Using the FIB Lift-Out Technique” in Microscopy and Microanalysis, Volume 6, Supplement 2, Proceedings; Microscopy and Microanalysis 2000, Philadelphia, PA, Aug. 13 – 17, 2000, Springer Verlag, New York Inc, pp 518.

M. D. Hampton and J. L. Mills, “Safety of Microscale General Chemistry Experiments”, *Proceedings of the Safety Considerations in Microscale Chemistry Laboratories Symposium*, 197th National Meeting of the American Chemical Society, Dallas, TX, April, 1989.

Teaching, Books

Michael D. Hampton, “Test Bank to Accompany Brown, LeMay, and Bursten, Chemistry, The Central Science, 7th Edition”, Prentice Hall, 1996.

Michael Hampton, “Test Bank to Accompany Chemistry the Central Science by Brown, LeMay, and Bursten”, Prentice-Hall, 1994.

Contributing author for: R. Chang, “Chemistry, 4th Edition”, Randi Rossignol, Ed., McGraw Hill, New York, NY, 1990.

M. D. Hampton, “Test Bank to Accompany Chemistry for Engineers and Scientists by Fine and Beall”, Sandi Kiselica, Ed., Saunders, Philadelphia, PA, 1990.

M. D. Hampton and W. Snyder, “Test Bank to Accompany Chemistry: Science of Change” by Oxtoby, Nachtrieb and Freeman”, Sandi Kiselica, Ed., Saunders, Philadelphia, PA, 1990.

J. L. Mills and M. D. Hampton, “Microscale General Chemistry Experiments, 2nd Edition”, Kirk Emry, Ed., McGraw-Hill, New York, NY, 1990.

J. L. Mills and M. D. Hampton, “Instructor Manual for Microscale General Chemistry Experiments, 2nd Edition”, Kirk Emry, Ed., McGraw-Hill, New York, NY, 1990.

J. L. Mills and M. D. Hampton, “Microscale and Macroscale General Chemistry Experiments”, Kirk Emry, Ed., McGraw-Hill, New York, NY, 1990.

J. L. Mills and M. D. Hampton, "Instructor Manual for Microscale and Macroscale General Chemistry Experiments", Kirk Emry, Ed., McGraw-Hill, New York, NY, 1990.

J. L. Mills and M. D. Hampton, "Microscale Laboratory Manual for General Chemistry", Kent Porter, Ed., Random House, New York, NY, 1988.

J. L. Mills and M. D. Hampton, "Instructor Manual for Microscale Laboratory Manual for General Chemistry", Kent Porter, Ed., Random House, New York, NY, 1988.

M. D. Hampton, C. A. Peters^u, and L. Wellington^m, "Response of Poly(Vinyl Chloride) Electrodes Based on the Neutral Carrier 1,4,7,10-Tetraoxacyclododecane", *Analytica Chimica Acta*, **194**, 171(1987).

M. D. Hampton, "Nail it Down", *Chem 13 News*, 164, 23 (1986).

M. D. Hampton, M. E. Key, J. Wright, and P. Smith, "International Chemistry Olympiad: U.S. Preparation and Participation", *Proceedings of the Eighth International Conference on Chemical Education*, 1985.

B. B. Hughes, R. C. Haltiwanger, C. G. Pierpont, M. D. Hampton, and G. L. Blackmer, "Synthesis and Structure of a 12-Crown-4 Sandwich Complex of Manganese (II), Bis(1,4,7,10-tetraoxacyclododecane) manganese (II) Tribromide", *Inorg. Chem.*, **19**, 1801(1980).

Teaching, Peer Reviewed Paper

M. D. Hampton, M. E. Key, J. Wright, and P. Smith, "International Chemistry Olympiad: U.S. Preparation and Participation", *Widening the Scope of Chemistry*, International Union of Pure and Applied Chemistry (IUPAC), Yoshito Takeuchi, Ed., Blackwell Scientific Publications, pp181, 1987.

Presentations

Research, National and International Meetings and Conferences

Benjamin Pearman, Nahid Mohajeri, Darlene Slattery, Paul Brooker, Marianne Rodgers, Michael Hampton, David Cullen, and Sudipta Seal, "Chemistry and Degradation Mitigation of Cerium Oxide in Polymer Electrolyte Membranes", 225 Meeting of the Electrochemical Society, Orlando, FL, May 11-15, 2014.

Courtney Paradise, Michael Hampton, Brandan Wormsbacher, Juliano Llano, Sharon Ackerman, Cary Pellizeri, Bettina Rodriguez, and Katherine Ferstadt, "Our Friend the Atom", 237th ACS National Meeting, Salt Lake City, UT, Marcy 22-26, 2009.

A. L. Gusev, T. N. Veziroglu, and M. D. Hampton, "The Electronic Platform of an Editorial Board for the International Scientific Journal for Alternative Energy and Ecology – ISJAEE", NATO Advanced Research Workshop, Black Sea: Strategy for Addressing its Energy Resources Development & Hydrogen Energy Problems, Batumi, Georgia, October 7-10, 2012.

A. L. Gusev, S. P. Kapitsa, T. N. Veziroglu, M. S. Tsitskishvilli, and M. D. Hampton, "Sea Currents and Hydrogen Energy", NATO Advanced Research Workshop, Black Sea: Strategy for Addressing its Energy Resources Development & Hydrogen Energy Problems, Batumi, Georgia, October 7-10, 2012.

Benjamin Pearman, Nahid Mohajeri, Darlene Slattery, Len Bonville, Diego Diaz, Sudipta Seal, Michael Hampton, "The Effect of Cerium Oxide Nanoparticle Oxidation State on the Degradation Mitigation of 1100 EW Nafion® Composite Membranes", 2012 Annual Meeting of The Minerals, Metals, and Materials Society, Symposium: Materials in Clean Power Systems VII: Clean Coal-, Hydrogen-Based-Technologies, and Fuel Cells, Orlando, FL, March 11-15, 2012.

Sarah Parker, Samantha Ruiz, Regina Postrekhina, Sebastian Church, Brian Strickland, and Michael Hampton, "Development of a Map Application of Environmental, Energy, and Sustainability Initiatives at University of Central Florida", Showcase of Undergraduate Research Excellence, April 1, 2011, University of Central Florida. Poster won 2nd place in Arts and Humanities category.

"Properties of Aggregates of Anionic-Cationic Porphyrins: TCPP and TAP", Muzaffer T. Oztek, Michael D. Hampton, Darlene K. Slattery, and Sandy Loucks, accepted for presentation both orally and as poster at the 233rd National Meeting of the American Chemical Society, Chicago, IL, March, 2007.

"Properties of Aggregates of Anionic-Cationic Porphyrins: TCPP and and TPPS with TAP", Muzaffer T. Oztek, Michael D. Hampton, Darlene K. Slattery, and Sandy Loucks, 233rd National Meeting of the American Chemical Society, Chicago, IL, March, 2007.

"Heavy Metal Remediation of Soil and Sediments by Application of Emulsified Liquid Membrane Technology", Debbie B. Maxwell Robert W. DeVor, Kristen M. Milum, Brian Aitken, Rachel Calabro, Michael D. Hampton, Cherie L. Geiger, Christian A. Clausen, Jacqueline Quinn, accepted for presentation at the Fourth International Conference on Remediation of Contaminated Sediments, Savannah, GA, Jan. 22-25, 2007.

Michael D. Hampton, "Hydrogen as an Energy Carrier", Invited presentation to South Georgia Section, ACS, and Department of Chemistry, Valdosta State University, Valdosta, GA, Nov. 10, 2006.

Michael D. Hampton and Darlene K. Slattery, "Metal Hydrides for Hydrogen and Helium Purification and Recovery", NASA Hydrogen Review Meeting, May 10 – 11, 2005, University of Florida, Gainesville, FL.

Michael D. Hampton and Darlene K. Slattery, "Metal Hydrides for Hydrogen and Helium Purification and Recovery", NASA Hydrogen Review Meeting, Nov. 1 – 4, 2005, Florida Solar Energy Center, Cocoa, FL.

Darlene K. Slattery and Michael D. Hampton, "Metal Hydrides for Hydrogen and Helium Separation, Purification, and Recovery", NASA Hydrogen Review Meeting, Nov. 3 – 4, 2004, Florida Solar Energy Center, Cocoa, FL.

Michael D. Hampton, Darlene K. Slattery, Mirna Franjic, "Hydrogen Recovery", Invited Speaker, Symposium GG: Materials and Technology for Hydrogen Storage and Generation, 2005 Annual Meeting of the Materials Research Society, San Francisco, CA, March 28 – April 1, 2005.

E. V. Kudel'kina, A. L. Gusev, P. A. Chaban, A. V. Ivkin, T. N. Veziroglu, and M. D. Hampton, "Edelweiss-001 Standardized Unit for Testing Hydrogen Transport Sensors", Intersolar-2004, June 24 – 26, 2004, Freiburg, Germany.

A. L. Gusev, E. V. Kudel'kina, A. P. Chaban, A. V. Ivkin, T. N. Veziroglu, and M. D. Hampton, "The Outlook for Using Palladium and 4th Period Metal Oxides in Hydrogen Energy and Transport", Intersolar-2004, June 24 – 26, 2004, Freiburg, Germany.

A. L. Gusev, E. V. Kudel'kina, A. P. Chaban, A. V. Ivkin, T. N. Veziroglu, and M. D. Hampton, "Hydrogen Sensors for Hydrogen Transport", Intersolar-2004, June 24 – 26, 2004, Freiburg, Germany.

A. L. Gusev, E. V. Kudel'kina, A. P. Chaban, A. V. Ivkin, T. N. Veziroglu, and M. D. Hampton, "Electrosorption Phenomena in Layers of Shield-Vacuum Heat Insulation of Hydrogen Reservoirs in Emergency Operating Conditions", Intersolar-2004, June 24 – 26, 2004, Freiburg, Germany.

A. L. Gusev, E. V. Kudel'kina, A. P. Chaban, A. V. Ivkin, T. N. Veziroglu, and M. D. Hampton, "Phenomenological Thermodynamics of Adsorption for Justification of Synthesis of the Optimal Hydrogen Accumulator Based on Zeolites, Carbon Nanotubes, and Nanospheres", Intersolar-2004, June 24 – 26, 2004, Freiburg, Germany.

E. V. Kudel'kina, A. L. Gusev, P. A. Chaban, A. V. Ivkin, T. N. Veziroglu, and M. D. Hampton, "Edelweiss-001 Standardized Unit for Testing Hydrogen Transport Sensors", Eurosun and 14th International ForumSun, June 20 – 23, 2004, Freiburg, Germany.

A. L. Gusev, E. V. Kudel'kina, A. P. Chaban, A. V. Ivkin, T. N. Veziroglu, and M. D. Hampton, "The Outlook for Using Palladium and 4th Period Metal Oxides in Hydrogen Energy and Transport", Eurosun and 14th International ForumSun, June 20 – 23, 2004, Freiburg, Germany.

A. L. Gusev, E. V. Kudel'kina, A. P. Chaban, A. V. Ivkin, T. N. Veziroglu, and M. D. Hampton, "Hydrogen Sensors for Hydrogen Transport", Eurosun and 14th International ForumSun, June 20 – 23, 2004, Freiburg, Germany.

A. L. Gusev, E. V. Kudel'kina, A. P. Chaban, A. V. Ivkin, T. N. Veziroglu, and M. D. Hampton, "Electrosorption Phenomena in Layers of Shield-Vacuum Heat Insulation of Hydrogen Reservoirs in Emergency Operating Conditions", Eurosun and 14th International ForumSun, June 20 – 23, 2004, Freiburg, Germany.

A. L. Gusev, E. V. Kudel'kina, A. P. Chaban, A. V. Ivkin, T. N. Veziroglu, and M. D. Hampton, "Phenomenological Thermodynamics of Adsorption for Justification of Synthesis of the Optimal Hydrogen Accumulator Based on Zeolites, Carbon Nanotubes, and Nanospheres", Eurosun and 14th International ForumSun, June 20 – 23, 2004, Freiburg, Germany.

Michael D. Hampton, Darlene K. Slattery, N. Jafafi-Mohajeri, Mirna Franjic, and Janice K. Lomness, "Complex Hydrides as Hydrogen Storage Media", Invited Speaker, Symposium P1, "Hydrogen Electrochemistry and Generating Systems", 203rd Meeting of the Electrochemical Society, Paris, France, April 27 – May 2, 2003.

Jason Gilbert, Janice Lomness, Mirna Franjic, Michael Hampton, and Lucille Giannuzzi, "A Study of the Effects of Mechanical Milling Conditions on Hydrogen Interaction Characteristics of Mixtures of Titanium, Magnesium, and Nickel", 67th Annual Meeting of the Florida Academy of Sciences, Orlando, FL, March 21 – 22, 2003.

Dorian Cauceglia, Michael Hampton, and Janice Lomness, "Manganese(IV) Oxide for Hydrogen Gas Detection", 67th Annual Meeting of the Florida Academy of Sciences, Orlando, FL, March 21 – 22, 2003.

Edgar Perez, Michael Hampton, Mitchell Schulz, Janice Lomness, and Andrew Slaterbeck, "Electrodeposition of Manganese Dioxide on Gold Coated Quartz Crystal Microbalances", 67th Annual Meeting of the Florida Academy of Sciences, Orlando, FL, March 21 – 22, 2003.

Mirna Franjic, Janice Lomness, Jason Gilbert, Michael Hampton, and Darlene Slattery, "Effect of Ti Catalyst on Hydrogen Storage Properties of LiAlH₄", 67th Annual Meeting of the Florida Academy of Sciences, Orlando, FL, March 21 – 22, 2003.

Michael D. Hampton, Janice K. Lomness, and Lucille A. Giannuzzi, "Hydrogen Storage in Titanium-Magnesium-Nickel Mixtures", Symposium BB, "Defect Properties and Related Phenomena in Intermetallic Alloys", MRS Meeting, Boston, MA, Dec., 2002.

Janice K. Lomness, Lucille A. Giannuzzi, Michael D. Hampton, and Brian Kempshall, "Preparation of a TEM Specimen From Mechanically Alloyed Powdered Particles", 2003 Annual Symposium of the Florida Chapter of American Vacuum Society and the Florida Society of Microscopy, Orlando, FL, March, 2003.

Darlene K. Slattery, Michael D. Hampton, Janice K. Lomness, Nahid Najafi-Mohajeri and Mirna Franjic, "Hydrogen Storage Using Complex Hydrides", 225th National Meeting of the American Chemical Society, New Orleans, LA, March 24 – 27, 2003.

B. W. Kempshall, S. M. Schwarz, J. K. Lomness, B. I. Prenitzer, M. D. Hampton, and L. A. Giannuzzi, "Site Specific Microstructural and Analytical Characterization With the Aid of Focused Ion Beams", Scanning 2003, San Diego Mission Valley, CA, May, 2003.

M. D. Hampton, J. K. Lomness, and L. A. Giannuzzi, "The Effects of Surface Composition and Microstructure on the Hydrogen Uptake Properties of Alloys", invited presentation, Symposium S2 – Hydrogen Storage Materials and Hydrogen Generators, 201st Meeting of the Electrochemical Society, Philadelphia, PA, May, 2002.

D. K. Slattery and M. D. Hampton, "Complex Hydrides for Hydrogen Storage", U. S. Department of Energy Hydrogen Program Annual Review Meeting, Golden, CO, May, 2002.

Orlando Melendez, Martha Williams, Michael Hampton, Gordon Nelson, and Erik Weiser, "Surface Evaluation by X-ray Photoelectron Spectroscopy of High Performance Polyimide Foams After Exposure to Oxygen Plasma", 43rd AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics,, and Materials Conference, Denver, CO, April, 2002.

Orlando Melendez, Martha Williams, Michael Hampton, Gordon Nelson, and Erik Weiser, "Characterization of the Weathering Degradation of Polyimide Foams", 223rd National Meeting of the American Chemical Society, Orlando, FL, April, 2002.

A. F. Slaterbeck, E. A. Perez, M. L. Schulz, and M. D. Hampton, "Electrodeposition of Manganese Dioxide on Gold-Coated Quartz Crystal Microbalances for Hydrogen Sensing", 223rd National Meeting of the American Chemical Society, Orlando, FL, April, 2002.

M. D. Hampton, L. A. Giannuzzi, D. Herley^u, J. Gilbert^m, J. K. Lomness^p, and M. Franjic^m, "Effect of Fluoride Solutions on Interaction of Magnesium-Nickel Alloy With hydrogen", 223rd National Meeting of the American Chemical Society, Orlando, FL, April, 2002.

Orlando Melendez, Michael D. Hampton, Martha K. Williams, Gordon L. Nelson, James R. Brenner, and Erik S. Weiser, "Surface Evaluation by X-Ray Photoelectron Spectroscopy of High

Performance Polyimide Foams After Exposure to Oxygen Plasma”, American Institute of Aeronautics and Astronautics Conference, April, 2002.

Janice K. Lomness, Michael D. Hampton, and Lucille Giannuzzi, “Surface Study of Liquid Water Treated and Water Vapor Treated Mg₂Ni Alloy”, IUVSTA 15th International Vacuum Congress, AVS 48th International Symposium, 11th International Conference on Solid Surfaces, San Francisco, October, 2001.

A. L. Gusev. M. D. Hampton, I. V. Zolotuchin, J. E. Kalinin, A. T. Ponomarenko, V. S. Travkin, and T. N. Veziroglu, “Superinsulation: New Effects, Structures, and Design Principles”, Eurofillers Conference, Fillers for the New Millenium, Lodz, Poland, July 9-12, 2001.

A. L. Gusev. M. D. Hampton, I. V. Zolotuchin, J. E. Kalinin, A. T. Ponomarenko, V. S. Travkin, and T. N. Veziroglu, “Superinsulation: New Effects, Structures, and Design Principles”, Eurofillers Conference, Fillers for the New Millenium, Lodz, Poland, July 9-12, 2001.

Michael D. Hampton, “The State of the Art and Applications of Hydrogen Sensors”, International First Seminar on Safety of Hydrogen Transport – 2000, Sarov, Russia, July 23-28, 2000. Key Speaker.

Lucille Giannuzzi, Janice K. Lomness, and Michael D. Hampton, “Surface Analysis Using FIB/TEM”, Surface Analysis 2000, Penn State University, University Park, PA, June 7-9, 2000.

Lucille Giannuzzi, Janice K. Lomness, and Michael D. Hampton, “Site Specific TEM Analysis of Micrometer-Sized Particles with the FIB Lift-Out Technique”, Microscopy and Microanalysis 2000, Philadelphia, PA, Aug. 14 - 17, 2000.

Michael D. Hampton, Lucille Giannuzzi, and Janice K. Lomness, “The Study of Metals and Alloys for Hydrogen Storage”, NATO Advanced Research Workshop and 6th International Conference on Hydrogen Materials Science and Chemistry of Metal Hydrides, Katsiveli, Yalta, Ukraine, Sept. 2-8, 1999. Key Speaker, Co-Director.

Michael D. Hampton and Janice K. Lomness and Rajkumar Juturu, “Activation of Mg₂Ni for Hydrogen Uptake”, 5th International Conference on Hydrogen Materials Science and Chemistry of Metal Hydrides, Katsiveli, Yalta, Ukraine, Sept. 2-8, 1998. Key Speaker.

S. Seal, M. Hampton, K. Sundaram, and V. Desai, “Fabrication and Characterization of Nanophase Materials for Space Applications”, Materials Research Society Fall Meeting, Boston, Massachusetts, Nov. 30 – Dec. 4, 1998.

S. Seal, M. Hampton, and M. Stowell, “Hydrogen Storage in Quasicrystals of Ti-Mg-Ni”, Materials Research Society Fall Meeting, Boston, Massachusetts, Nov. 30 – Dec. 4, 1998.

A. Kale, K. Beaulieu, V. Desai, S. Seal, K. Sundaram, and M. Hampton, “Effect of Processing Parameters on the Chemistry of Magnetron Sputtered Ti-Al Thin Films”, Materials Research Society Fall Meeting, Boston, Massachusetts, Nov. 30 – Dec. 4, 1998.

Research, Local, State, and Regional Meetings and Conferences

Sara Parker, Samantha Ruiz, Regina Postrekhina, Sebastian Church, Brian Strickland, and Michael Hampton, “Development of a Map Application of Environmental, Energy, and

Sustainability Initiatives at UCF”, Showcase of Undergraduate Research Excellence, April 1, 2011. Presentation earned 2nd place in Arts and Humanities category.

J. K. Lomness, L. A. Giannuzzi, M. D. Hampton, “FIB Preparation of Particles”, 2002 Annual Joint Symposium of the Florida Society of Microscopy and the Florida Chapter of the American Vacuum Society, March 11–12, 2002, Orlando, FL.

Janice K. Lomness, Michael D. Hampton, and Lucille Giannuzzi, “Surface Study of Liquid Water Treated and Water Vapor Treated Mg₂Ni Alloy”, 2002 Annual Joint Symposium of the Florida Society of Microscopy and the Florida Chapter of the American Vacuum Society, Orlando, FL, March, 2001. **NOTE: This poster/presentation, presented by Jan Lomness, won the grand prize at the conference.**

J. K. Lomness, L. A. Giannuzzi, and M. D. Hampton, “Site Specific TEM Characterization of Micrometer Sized Particles Using the FIB Lift-Out Technique”, Florida AVS/FSM Meeting, Orlando, FL, March, 2000. **Note: This poster/presentation, presented by Jan Lomness, won 2nd place in surface science and analysis.**

J. K. Lomness, S. Seal, M. D. Hampton, and M. Stowell, “Titanium Magnesium Nickel Alloy and Hydrogen Storage”, 2nd Annual Joint Meeting of the Florida Chapter of the Microscopy Society of America and the Florida Chapter of the American Vacuum Society, Orlando, FL, March 12 – 19, 1999.

Michael D. Hampton, “Magnesium and its Alloys for Storage of Hydrogen”, invited seminar for Department of Chemistry at Florida Institute of Technology, Melbourne, FL, April, 1998.

Michael D. Hampton, Rajkumar Juturu, and Janice Lomness, “Activation of Mg₂Ni for Hydrogen Uptake by Water Vapor”, 1998 Florida Annual Meeting and Exposition of the American Chemical Society, Orlando, FL, May, 1998.

Michael D. Hampton and Michael Hurrey, “Response of an Ion Selective Electrode Based on a Pellet of N,N'-disalicylidene-1,2-propanediamine”, 1998 Florida Annual Meeting and Exposition of the American Chemical Society, Orlando, FL, May, 1998.

Michael D. Hampton, Sudipta Seal, and Meredith Stowell, “Hydrogen Storage in Quasicrystals of Ti-Mg-Ni”, First Annual Partners in Education and Research Conference, sponsored by NASA and Kennedy Space Center, Cocoa Beach, Florida, October 6-8, 1998.

Michael D. Hampton and Brooks C. Madsen, “The Development of Computer Based Instructional Materials for Analytical Chemistry”, invited presentation at the Higher Education Consortium Region III Symposium, Embry Riddle Aeronautical University, Daytona Beach, FL, June 19, 1997.

Michael D. Hampton and Janice K. Lomness, “Rapid, Inexpensive Activation of Mg₂Ni for Hydrogen Uptake”, 5th International Conference on Hydrogen Materials Science and Chemistry of Metal Hydrides, Katsiveli, Yalta, Ukraine, Sept. 2-8, 1997. Key Speaker.

Michael D. Hampton, Christain A. Clausen III, and Janice K. Lomness, “Determination of the Metal Deactivator, N,N'-disalicylidene-1,2-propanediamine, in Jet Fuel”, SEAAC-97 (Meeting of the Southeastern Association of Analytical Chemists), Tampa, FL, Oct. 2-4, 1997.

Michael D. Hampton and Brooks C. Madsen, "The Development of Computer Based Instructional Materials for Analytical Chemistry", invited presentation at the Higher Education Consortium Region III Symposium, Embry Riddle Aeronautical University, Daytona Beach, FL, June 19, 1997.

Michael D. Hampton and Janice K. Lomness, "Rapid, Inexpensive Activation of Mg₂Ni for Hydrogen Uptake", 5th International Conference on Hydrogen Materials Science and Chemistry of Metal Hydrides, Katsiveli, Yalta, Ukraine, Sept. 2-8, 1997. Key Speaker.

Michael D. Hampton, Christain A. Clausen III, and Janice K. Lomness, "Determination of the Metal Deactivator, N,N'-disalicylidene-1,2-propanediamine, in Jet Fuel", SEAAC-97 (Meeting of the Southeastern Association of Analytical Chemists), Tampa, FL, Oct. 2-4, 1997.

Lisa A. Smitha, Clovis A. Linkous, and Michael D. Hampton, "Preparation of TiO₂ Based Photocatalysts", 1995 Annual Meeting of the Florida Sections American Chemical Society, Orlando, FL, May, 1995.

Michael D Hampton, "Alternative Fuels", seminar presented to participants in the UCF Learning Institute for Elders, April, 1994.

Michael Hampton, "Hydrogen as an Alternative Fuel", Seminar at Department of Chemistry, Florida Atlantic University, Boca Raton, FL, Oct., 1993.

Michael Hampton, "Hydrogen Storage Systems", Seminar at Department of Chemistry, Philadelphia College of Pharmacy and Science, Philadelphia, PA, April, 1993.

Michael Hampton, James Slattery, and Christopher Bender^u, "A New System for Evaluation of Chemical and Thermodynamic Characteristics of Hydrogen Storage Compounds", DOE/NREL Hydrogen Program Review Meeting, Cocoa Beach, FL, May, 1993. Note: this paper will also be included in the *Hydrogen Annual Report* of NREL.

James Slattery, Christopher Bender, and Michael Hampton, "Coupled Differential Scanning Calorimetry, Pressure Measurement, and Gas Chromatography as a Technique for Evaluating the Suitability of Metals for Hydrogen Storage", 1993 Annual Meeting of the Florida American Chemical Society, Orlando, FL, May, 1993.

Michael Hampton, "Hydrogen as an Alternative Fuel", Seminar at Department of Chemistry, Florida Atlantic University, Boca Raton, FL, Oct., 1993.

R. Zidan, D. Slattery, M. D. Hampton, and A Raissi, "Chemical Storage of Hydrogen in Metal Hydrides", DOE/SERI Program Review, Washington, DC, Jan., 1991.

James Slattery, Christopher Bender^u, and Michael Hampton, "Determination of the Thermal Properties of Metal Hydrides Upon Hydrogen Uptake and Release", Annual Meeting of the Florida Section American Chemical Society, Tampa, FL, May, 1991.

Ronald McCulloch and Michael Hampton, "Determination of Sulfite Ions by Photometric Titration With Potassium Ferricyanide in the Presence of Two Different Catalysts", Annual Meeting of the Florida Section American Chemical Society, Tampa, FL, May, 1991.

M. D. Hampton, C. Bender, and J. Slattery, "Determination of the Hydriding Characteristics of Alkali Metal and Alkaline Earth Metal Hydrides by Thermal Analytical Methods", 20th Annual Conference of the North American Thermal Analysis Society, Minneapolis, MN, Sept., 1991.

C. J. Bryan and M. D. Hampton, "A Method to Determine Propellant Handlers Ensemble Fabric Degradation", National Meeting of the North American Thermal Analysis Society, San Diego, CA, 1989.

M. D. Hampton, B. J. Lockhart, and C. J. Bryan, "The Oxygen Sensitivity/Compatibility Ranking of Several Materials by Different Test Methods", Fourth International Symposium on Flammability and Sensitivity of Materials in Oxygen Enriched Atmospheres, Las Cruces, New Mexico, April, 1989.

Teaching, Meetings and Conferences

Michael Hampton and Consuelo Stebbins, "Evolution of a Quality General Education Assessment", 2007 NCSU Undergraduate Assessment Symposium, Cary, NC, April, 2007.

Michael Hampton, "Microscale Methods in Teaching Laboratories", Seminar seminar for South Florida Section of the American Chemical Society, Boca Raton, FL, Oct., 1993.

Paul Gamble^u and Michael Hampton, "Demonstrations to Illustrate Change of Oxidation State", Annual Meeting of the Florida Section American Chemical Society, Tampa, FL, May, 1991.

M. D. Hampton and J. L. Mills, "Microscale General Chemistry Experiments", 11th Biennial Conference on Chemical Education, Atlanta, GA, August, 1990. Also arranged and chaired symposium by same title.

M. D. Hampton and J. L. Mills, "Microscale General Chemistry Labs", 200th National Meeting of the American Chemical Society, Washington, DC, August, 1990.

M. D. Hampton and J. L. Mills, "The Development and Current State of Microscale Laboratories in the Instruction of General Chemistry", 42nd Joint Meeting of the Southeast/Southwest Regions of the American Chemical Society, New Orleans, LA, December, 1990.

M. D. Hampton and J. L. Mills, "Microscale General Chemistry Experiments", keynote talk at symposium on microscale general chemistry labs at the 11th Biennial Conference on Chemical Education, Atlanta, GA, Aug., 1990.

M. D. Hampton and J. L. Mills, "Microscale General Chemistry Labs", organized and presided over this symposium at the 11th Biennial Conference on Chemical Education, Atlanta, GA, Aug., 1990.

J. L. Mills and M. D. Hampton, "In-Class Experiments in General Chemistry Using Microscale Techniques", A poster presentation given, by invitation, at the 200th National Meeting of the American Chemical Society, Washington, DC, Aug., 1990.

J. L. Mills and M. D. Hampton, "In-Class Experiments in General Chemistry Using Microscale Techniques", A symposium talk given, by invitation, at the 200th National Meeting of the American Chemical Society, Washington, DC, Aug., 1990.

M. D. Hampton and J. L. Mills, "Safety Considerations in Microscale General Chemistry Laboratories", 197th National ACS Meeting, Dallas, TX, April, 1989.

M. D. Hampton, "Workshop on Microscale General Chemistry", Orange County High School Teachers Inservice Day, Orlando, FL, 1988.

M. D. Hampton and J. L. Mills, "Symposium on Microscale General Chemistry", Tenth Biennial Conference on Chemical Education, West Lafayette, IN, 1988.

M. D. Hampton and J. L. Mills, "Workshop on Microscale General Chemistry", Tenth Biennial Conference on Chemical Education, West Lafayette, IN, 1988.

J. L. Mills, M. D. Hampton, "Microscale Experiments in the General Chemistry Laboratory", 39th Southeastern Regional Meeting of the American Chemical Society, Orlando, 1987.

M. D. Hampton, V. Flowers, J. L. Mills, J. Yeh, "Some Microscale Experiments for the General Chemistry Lab", 39th Southeastern Regional Meeting of the American Chemical Society, Orlando, 1987.

M. D. Hampton, V. Flowers, J. L. Mills, J. Yeh, "Some Microscale Experiments for the General Chemistry Lab", Southwestern Regional Meeting of the American Chemical Society, Little Rock, AK, 1987.

M. D. Hampton, "International Chemistry Olympiad", Keynote Speaker, Awards Banquet for the South Plains Section of the American Chemical Society and the Texas Tech University Department of Chemistry, Lubbock, TX, 1986.

M. D. Hampton and L. A. Wellington, "Development and Characterization of Ion Selective Electrodes Based on Aza-Substituted Crown Ethers", Annual Meeting of the Florida Section of the American Chemical Society, Gainesville, FL, 1986.

M. D. Hampton, "International Chemistry Olympiad: United States Preparation and Participation", Ninth Biennial Conference on Chemical Education, Bozeman, MT, 1986.

M. D. Hampton and L. A. Wellington, "Characterization of an Ion Selective Electrode Based on a Tetraaza-12-Crown-4 Pellet", 38th Southeastern Regional Meeting of the American Chemical Society, Louisville, KY, 1986.

M. D. Hampton, "International Chemistry Olympiad: U.S. Preparation and Participation", Eighth International Conference on Chemical Education, Tokyo, Japan, 1985.

M. D. Hampton, "International Chemistry Olympiad", Orange County Science Teachers Workshop, Winter Park, FL, 1985.

M. D. Hampton, "Crown Ether Based Ion Selective Membrane Electrodes", Florida Institute of Technology, 1985.

M. D. Hampton, "Crown Ether Based Ion Selective Membrane Electrodes", University of Central Florida, 1985.

M. E. Key, W. B. Avila, P. D. Summer III, J. R. Wright, and M. D. Hampton, "U. S. Chemistry Olympiad: Second Year Participation and Development". Annual Meeting of the American Chemical Society, Chicago, IL, 1985.

M. D. Hampton, "Crown Ether Based Ion Selective Membrane Electrodes", 37th Annual Meeting of the Florida Section American Chemical Society, Lakeland, Florida, 1984.

M. D. Hampton, "Crown Ether Based Ion Selective Electrodes", 26th Rocky Mountain Conference, Denver, Colorado, 1984.

M. D. Hampton, "Crown Ether Based Ion Selective Membrane Electrodes", Eleventh Annual Meeting of the Federation of Analytical Chemistry and Spectroscopy Societies, Philadelphia, Pennsylvania, 1984.

M. D. Hampton, "XVI International Chemistry Olympiad", Florida Association of Science Teachers State Conference, Coral Springs, Florida, 1984.

M. D. Hampton, C. A. Peters^u and A. Hedgecock^u, "Chemical Magic Show", Florida Association of Science Teachers State Conference, Coral Springs, Florida, 1984.

M. D. Hampton, "Crown Ether Based Ion Selective Electrodes", 1984 Federation of Analytical Chemistry and Spectroscopy Societies Meeting, Philadelphia, PA, 1984.

M. D. Hampton, "Crown Ether Based Ion Selective Electrodes", Eastman Kodak, Eastman Chemicals Division, Kingsport, Tennessee, 1984.

M. D. Hampton, "Chemathon-85 and International Chemistry Olympiad", Seminole County High School Principals Meeting, Longwood, FL, 1984.

G. L. Blackmer and M. D. Hampton, "Synthesis and Structure of a Unique Manganese - Crown Ether Complex", Third Symposium on Macrocyclic Compounds, Brigham Young University, Provo, Utah, 1979.

M. D. Hampton and G. L. Blackmer, "Synthesis and Structure of Manganese 12-Crown-4 Complexes", Regional Meeting of The American Chemical Society, Little Rock, Arkansas, 1977.

Graduate Students Mentored

Doctoral

Benjamin P. Pearman, "The Behavior of Cerium Oxide Nanoparticles in Polymer Electrolyte Membranes in Ex-Situ and In-Situ Fuel Cell Durability Tests", PhD, Chemistry, 2012.

Muzaffer T. Oztek, "The Study of Three Different Layered Structures as Model Systems for Hydrogen Storage Materials", PhD, Chemistry, 2011.

Janice K. Lomness, "An Investigation into the Relationship Between the Hydrogen Storage Properties and the Microstructure of Mechanically Alloyed Mixtures of Titanium, Magnesium, and Nickel", PhD, Materials Science and Engineering, Co-Directed with Dr. Lucille A. Giannuzzi, 2001.

Masters

Mirna Franjic, "The Effects of Catalysts on the Hydrogen Release and Uptake Characteristics of LiAlH and NaAlH", MS, Chemistry, 2004.

Jason K. Gilbert, "The Effects of Mechanical Alloying Conditions on Hydrogen Interaction Characteristics and Microstructure of Mixtures of Titanium, Magnesium, and Nickel", MS, Chemistry, 2003.

Rajkumar Juturu, "Activation of Mg₂Ni Alloy Towards Initial Hydrogen Uptake by Treatment with Water Vapor and Organic Compounds", MS, Chemistry, 1999.

Janice K. Lomness, "I. N,N'-disalicylidene-1,2-propanediamine; Determination of in JP-8 Jet Fuel and Use as Ligand in Ion Selective Electrode Membrane, II. Water Activation of Magnesium Nickel Alloy for Hydrogen Uptake and Storage", MS, Chemistry, 1998.

Joseph J. O'Shanka, "Investigation of potential Replacement Solvents for 1,1,1-Trichloroethane for Cold Cleaning of Electrical Apparatus", MS, Chemistry, 1998.

G. W. Christian Adams, "The Activation of Mg₂Ni with Water", MS, Chemistry, 1996.

Roxanne R. Petzold, "Properties of Metal Hydrides That can be Determined with a DSC/GC/Pressure System", MS, Chemistry, 1996.

Lisa A. Wellington, "Ion Selective Electrodes Based on Aza-Substituted Crown Ethers", MS Industrial Chemistry, 1986.

Memberships

American Chemical Society (ACS)
Analytical Chemistry Division
Education Division
Chemistry Olympiad Subcommittee
Society Committee on Education
National Chemistry Olympiad Subcommittee

American Society for Testing and Materials (ASTM)
North American Thermal Analysis Society (NATAS)

Council for Undergraduate Research
The Quill
Association of Graduate Liberal Studies Programs
Sigma Pi Sigma, National Physics Honor Society

Service and Other Professional Activities

University of Central Florida

Department of Chemistry

Undergraduate Affairs Committee, 2001 - 2005
Analytical Award Committee, 1981 - 2005
Chair, Instrumentation/OCO Committee, 2001 - 2004
Freshman Coordinator, 1985 –1998, 2001 – 2004
Chair, Instrumentation/OCO Committee, 1995 - 2002
Analytical Chemistry Faculty Search Committee, 2000 – 2002
Departmental Rep., Orange Co. Public Schools Partners in Ed. Program, 1987 – 2002
Graduate Affairs Committee, 1999 - 2001
Alumni Relations Committee, 1998 - 1999
Chemical Education Faculty Search Committee, 1998 – 1999
Chemathon Committee, 1983 – 1998
Student Affiliate Faculty Advisor, 1981 - 1995

College of Arts and Sciences

Scholarship and Awards Committee, 2001 – 2005
Arts Task Force, 2004
Chaired several grade dispute hearings, 2004
Staff Recognition Awards Selection Committee, 1999 - 2001
TIP Selection Committee, 1999 – 2001
Bylaws Committee, 1997 - 1998
Associate Dean Search Committee, 1997 – 1998
Selection Committee, College Awards in Teaching, Advising, Professional Service, 1996 – 1997
Excellence in Teaching and Professional Service Awards Committee, 1995 – 1996
Personnel Committee, 1988, 1990, 2003, 2004
Selection Committee for the UCF Foundation Awards for Excellence, 1988

Undergraduate Studies

Chair, Common Program Oversight Committee, 2010 – present
Director, University Unifying Theme, 2010 – present
Host and Liaison, LIFE@UCF, 2010 – present
Chair, Curriculum Alignment, K-20, 2010 – present

University

Chair, General Education Assessment, 2005 – 2006
University Assessment Committee, 2005 - 2006
Sabbatical Leave Committee, 2000 – 2002
East Europe Linkage Institute, regularly meet, tour, and host visitors, 1997 - 2002
General Education Program Assessment Committee, 1995 - 1998
AMPAC Education Committee, 1997 – 1998
Honors Program Advisory Committee, 1994 - 1995

State of Florida

Environmental Chemistry Secretariat Executive Committee, 1997 - 2002
National Board for Professional Teaching Standards, 1997 - 1999
Grading Team for Sunshine State Scholars Competition, 1998 - 1999
Florida Collaborative for Excellence in Teacher Preparation, 1998 – 1999
Grading Team for Sunshine State Scholars Competition, 1998.

Writing Team for Sunshine State Scholars Competition, 1997.

United States

Member Chemistry Advanced Placement Exam Redesign Committee, College Board, 2011

American Chemical Society

Local Section

Orlando Section Chair, 2005

Orlando Section Chair Elect, 2004

Orlando Section Executive Committee, 2001 - 2008

Florida Award Selection Committee, 1999 – 2002

National Councilor for Orlando Section, 1993-96

Chair, Orlando Section Chemistry Olympiad, 1984-94

Chair, Orlando Section of National Chemistry Olympiad, 1984-94

Chair, Education Committee, Orlando Section ACS, 1991 – 1994

Chair - Florida State Student Affiliates of American Chemical Society, 1983 to 1992

Chair, Florida Section American Chemical Society, 1990

Chair Elect Designate, Florida Section American Chemical Society, 1988

Chair, Education Committee, 1982 to 1988

Chair, High School Teacher Award Committee, 1985 - 1988

National

International Chemistry Olympiad Subcommittee, 1985 - present

Chair, Selection Committee, Coach, US Team, International Chemistry Olympiad, 1994 – present

Local Arrangements Chair, 223rd National Meeting, Orlando, FL, April, 2002

ACS Committee on Nomenclature, 1995 – 2000

Local Arrangements Chair, National Meeting, Orlando, FL, April, 1997

Member, Program Committee of the 1992 International Chemistry Olympiad held in Washington, D.C. and in Pittsburgh, PA, in July, 1992

Chair, Translators and Guides for the 1992 International Chemistry Olympiad held in Washington, D.C. and in Pittsburgh, PA, in July, 1992

Chair, Nominations Committee, Southeastern Regional Steering Committee, ACS, 1991

Chair, Southeastern Regional Steering Committee American Chemical Society, 1988

Miscellaneous

Invited participant in National Science Foundation's Future Directions for Hydrogen Energy Research and Education, NSF, Arlington, VA, June 27-29, 2004.

Review papers for *Journal of Chemical Education*, *International Journal of Hydrogen Energy*, *Environmental Pollution*, and *Journal of New Materials for Electrochemical Systems*.

Co-chair of Student Poster Session of 2002 Annual Joint Symposium of the Florida Society of Microscopy and the Florida Chapter of the American Vacuum Society, March 11–12, 2002, Orlando, FL.

Took 29 high school students and 6 middle school students on behind the scenes tour at The Land and The Living Seas pavillions at EPCOT Center, April, 1994.

1992-present Chaired Selection Committee for Coach of the United States team at the International Chemistry Olympiad.

Reviewed new general chemistry text for Houghton Mifflin Company, January, 1993.

Reviewed table of contents and three chapters of *Fundamental of Chemistry* for Brooks Cole Publishing Company, Aug., 1992.

Reviewed paper entitled *Chemical Resistance Properties of Advanced Glove Materials* by Wilusz and Hassler, for the American Society for Testing and Materials (ASTM), Nov., 1991.

Reviewed paper entitled *Selection and Development of Chemical-Resistant, Flame Resistant Protective Gloves for U. S. Navy Shipboard Use* by J. O. Stull, D. F. White, and C. A. Heath, for the American Society for Testing and Materials (ASTM), Nov., 1991.

Judged projects and advised students and teachers at Oveido High School, February, 1990.

Taught course "Basic Chemistry" for elementary, middle, and high school teachers in Orange County Public Schools Summer Science Institute, July, 1989.

Assisted Orange County high school students with science fair projects, Orlando Science Center, Orlando, FL, 1988.

Assisted two ninth grade students in the Pre-International Baccalaureate Program in the Ninth Grade Center of Winter Park with the synthesis of a superconductor for their science fair projects, University of Central Florida, Orlando, FL, 1988.

Mentor, Orange County High School Mentor Program, 1987 - present.

Taught course "Basic Chemistry" for elementary and middle, and high school teachers in Seminole County Public Schools, July, 1987.

Presented seminar on the Chemathons and the Chemistry Olympiads at the Time for Science Meeting, Colonial High School, Orlando, FL, 1987.

Judging Captain, Senior Division, Chemistry, Orange County Regional Science Fair, Orlando, FL, 1987.

Member, University Teachers Advisory Council, University of Central Florida, 1987 - 1990.

General Chair, 39th Southeastern Regional Meeting, American Chemical Society, 1985 - 1987.

Chair - Southeastern Regional Meeting of American Chemical Society in 1987.

Judge, Lake Brantley High School Science Fair, Longwood, FL, 1986.

Did "Magic of Chemistry" demonstration for gifted elementary school students visiting the UCF, Orlando, FL, 1986.

Presented seminar on corrosion to UCF Chapter, Student Affiliates, UCF, Orlando, FL, 1986.

Presented seminar on the Chemathons and the Chemistry Olympiads at the Florida Association of Science Supervisors Meeting, Orlando, FL, 1986.

Taught course "Basic Chemistry" for elementary, middle, and high school teachers in Orange County Public Schools Summer Science Institute, July, 1986.

Member - Executive Committee, International Chemistry Olympiad, 1984 - 1986.

Head Mentor - Second American Chemical Society/International Chemistry Olympiad Study Camp, Colorado Springs, Colorado, 1985.

Head Coach, US Team, 17th International Chemistry Olympiad, Bratislava, Czechoslovakia, 1985.

Chair of Orlando Subsection of American Chemical Society - Spring and Fall, 1984 - 85.

Member, International Jury, 17th International Chemistry Olympiad, Bratislava, Czechoslovakia, 1985.

Judge, Florida State Science and Engineering Fair, Lakeland, FL, 1985.

Presented two workshops on "Career Opportunities in Chemistry" for high school seniors in the Project Reachout, University of Central Florida, Orlando, FL, 1985.

Judging Chair - 1984 State Science Fair.

Chair - Analytical Chemistry Session, 37th Annual Meeting, Florida Section American Chemical Society, 1984.

Chair - Student Affiliate Session, 37th Annual Meeting of the Florida Section American Chemical Society, 1984.

Judge, Student Papers, 37th Annual Meeting Florida Section American Chemical Society, 1984.

Presented scholarship award at Winter Park High School Awards Ceremony, 1983 and 1984.

Cut ribbon at Union Park Pizza Hut Grand Opening, 1984.

Mentor, First American Chemical Society/International Chemistry Olympiad Study Camp, Colorado Springs, Colorado, 1984.

Coach - United States Team in the 16th International Chemistry Olympiad, Frankfurt, West Germany, 1984.

Member, International Jury, 16th International Chemistry Olympiad, Frankfurt, West Germany, 1984.

Scholarship Committee - University of Central Florida Department of Chemistry, 1984.

Committee on Safety and Health - Florida Section American Chemical Society, 1984.

Chair - Chemathon in Orange, Seminole, Lake, Osceola, Brevard, Sumter, and Volusia Counties, 1983 - 84. Cochair, 1984-94.

College of Arts and Sciences Dean's Advisory Council - UCF, Fall, 1981 to 1983.

Cochair, Articulation Conference - Florida Division of American Chemical Society, Spring, 1982.

Safety committee - Texas Tech University, Fall and Spring, 1980 - 81.