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Education

- 2001 Ph.D., Inorganic Chemistry, UCLA
- 1999 M.S., Inorganic Chemistry, UCLA
- 1997 B.S., Chemistry (cum laude), University of West Georgia

Employment

University of Utah

- Professor (Lecturer) of Chemistry, 2020-
- Associate Dean for Student Affairs, College of Science, 2011-2013
- Associate Chair, Department of Chemistry, 2011
- Director of Development, Department of Chemistry, 2009-2011
- Associate Professor (Lecturer) of Chemistry, 2008-2020
- Assistant Professor (Lecturer) of Chemistry, September 2002-2008
- Instructor of Chemistry, January-August 2002

Academy for Math, Engineering, and Science (AMES)

- Adjunct Instructor of Chemistry, 2004-2011, 2012-2013

Awards and Recognitions

- 2013 Favorite Professor Award, Alpha Chi Omega Sorority, University of Utah
- 2010 Honors Professorship, University of Utah
- 2010 Associated Students of the University of Utah (ASUU) Student Choice Award
- 2009 Sigma Chi Fraternity Distinguished Teacher Award, University of Utah

- 2008 Latter-Day Saint Student Association (LDSSA) Excellence in Education Award, University of Utah
- 2007 Robert W. Parry Teaching Award, Department of Chemistry, University of Utah
- 2006 Early Career Teaching Award, University of Utah
- 2003 Associated Students of the University of Utah (ASUU) Student Choice Award
- 2002 Inorganic Chemistry Dissertation Award, UCLA
- 2000 Saul Winstein Fellowship, UCLA
- 1996 William L. Lockhart Scholarship, University of West Georgia

Courses

Chemistry 1020: Culinary Chemistry

- a general-science laboratory-based course that explores the chemistry of food and cooking

Chemistry 1110: Elementary Chemistry I

- the first of a two-semester general, organic, and biochemistry course designed specifically for allied health science majors

Chemistry 1200: Prep for General Chemistry

- a preparatory course for students with little previous chemistry experience who need to take and pass general chemistry

Chemistry 1210 and 1220: General Chemistry I and II

- a two-semester course for students intending to study the natural and physical sciences, engineering, pharmacy, medicine, and dentistry

Chemistry 1215 and 1225: General Chemistry Laboratory I and II

- laboratory courses to accompany General Chemistry I and II

Chemistry 3000: Quantitative Analysis

- an analytical chemistry course for chemistry majors and minors

HONOR 3215: Great Scientists & Discoveries

- an interdisciplinary course that focuses both on some of the great discoveries in science as well as on the people who made them

Service

Vice Presidential Task Force on Reimagining General Education, University of Utah, 2011-2013

Ad Hoc Committee on Auxiliary Faculty, University of Utah, 2012-2013

Sterling Scholar finalists judge, sponsored by Deseret News and KSL 5, 2012

Steering Committee, Office of Outreach and Engagement, University of Utah, 2012-2013

Search Committee, Director of Office of Orientation and Leadership Development, University of Utah, 2011

Curriculum Policy Review Board, University of Utah, 2011-2013

International Exchange Committee, University of Utah, 2011-2013

Kitchen Cabinet, College of Science, 2011-2013

Executive Council, College of Science, 2011-2013

Graduate Education Committee, Department of Chemistry, 2011

Graduate Admissions Committee, Department of Chemistry, 2011

Space Committee, Department of Chemistry, 2011

Alumni Relations and Development Committee (chair), Department of Chemistry, 2011

Search Committee, Assoc. VP for Academic Affairs, University of Utah, 2011

Utah Science and Mathematics Education Consortium, 2011-2013

George Thomas Building Coordinating Committee, College of Science, 2011-2013

Crocker Science Center Educational Design Group, College of Science, 2010-2011

Regents' Scholarship Science Advisory Committee, Utah State Board of Regents, 2010

Judge for Salt Lake City School District Science Fair, 2010

Science Day Coordinating Committee, College of Science, 2009-2013

George Thomas Building Project Educational Mission Committee, College of Science, 2009-2011

Student Recruitment Subcommittee, Department of Chemistry, 2009-2011

George Thomas Building Project Steering Committee, College of Science, 2009

Chair, Curriculum Subcommittee, Department of Chemistry, 2008-2009

University Teaching Committee (chair 2011-2013), University of Utah, 2007-2013

Assistant undergraduate chemistry advisor, Department of Chemistry, 2004-2011

Undergraduate Education Committee, Department of Chemistry, 2003-

Judge for Intermountain West Junior Science and Humanities Symposium, 2002-2004

Peer-Reviewed Publications

1. Abu-Omar, M. M.; Owens, G. S.; Durazo, A. "Catalytic Olefin Epoxidation and Dihydroxylation with Hydrogen Peroxide in Common Ionic Liquids: Comparative Kinetics and Mechanistic Study" *Advances in Chemistry Series*, American Chemical Society, **2002**.
2. Owens, G. S.; Durazo, A.; Abu-Omar, M. M. *Chem. Eur. J.* **2002**, *8*, 3053.
3. Owens, G. S.; Abu-Omar, M. M. *J. Mol. Catal. A: Chemical*, **2002**, *187*, 215
4. Owens, G. S.; Abu-Omar, M. M. "Catalytic Oxidations in Ionic Liquids" in *Ionic Liquids: Industrial Applications to Green Chemistry*; R. D. Rogers and K. R. Seddon, Eds, *Advances in Chemistry Series*, American Chemical Society: Washington, DC **2002**, Vol. 818, pp 325-333.
5. Owens, G. S.; Abu-Omar, M. M. *Chem. Commun.* **2000**, 1165.
6. Owens, G. S.; Arias, J.; Abu-Omar, M. M. *Catal. Today* **2000**, *55*, 317.
7. Owens, G. S.; Richmond, T. G. *Chemical Educator* 1(4): S 1430-4171 (96), **1996**, 04045-9.

Book

Instructor's Resource Manual to accompany Chemistry: A Molecular Approach, 2nd Ed. Pearson Higher Education, 2010.

Invited Presentations

Facilitator, Center for Science and Math Education Faculty Exchange, December 2020

Panelist, Faculty/Instructor Dialogue on online instruction, University of Utah, July 2020

Fostering Academic Integrity, Center for Science and Math Education Remote-Instruction Workshop, May 2020

Challenges and Ideas: Building and Giving Online Assessments, Center for Science and Math Education Remote-Instruction Workshop, May 2020

Intelligent Design in a Fully Online STEM Service Course, Fall Faculty Forum, University of Utah, 2018

Panel discussion on charter schools and higher education partnerships, Hinckley Institute of Politics, University of Utah, 2012

MUSE Project panel discussion, *The PAC-12 and You*, University of Utah, 2012

An Innovative High School-University Partnership in Chemistry. Division of Chemical Education, 237th ACS National Meeting, Salt Lake City, 2009

Textbook Reviews

Ebbing, Darrell D.; Gammon, Steven D.; Ragsdale, Ronald O. *Essentials of General Chemistry*, 2nd Ed. Houghton Mifflin Company, 2006.

Kelter, Paul; Mosher, Michael; Scott, Andrew. *Chemistry: The Practical Science*. Houghton Mifflin Company, 2008.

Gilbert, Thomas R.; Kirss, Rein V.; Foster, Natalie; Davies, Geoffrey. *Chemistry: The Science in Context*, 2nd Ed. W. W. Norton & Company, 2009.

Silberberg, Martin. *Chemistry: The Molecular Nature of Matter and Change*, 5th Ed. McGraw-Hill Higher Education, 2009.

McMurry, John. *Fundamentals of General, Organic, and Biological Chemistry*, 8th Ed. Pearson Education, 2018.

Full Textbook Accuracy Review

Tro, Nivaldo. *Chemistry: A Molecular Approach*, 2nd Ed. Pearson Higher Education, 2010.

Journal Reviews

Reviewer for *Chemical Educator*, 2002-2007.

Press

“When chemistry tastes good”, *The Salt Lake Tribune*; 4 December 2009.

“University of Utah Institute students recognize professor”, *Deseret News*; 27 March 2008.

“Institute students honor favorite professor”, *The Daily Utah Chronicle*; 27 March 2008.

“Young Doctors, Scientists and Engineers in Love – with Learning”, *Continuum: The Magazine of the University of Utah*, Vol. 14, No. 4; Spring 2005.