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Education

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| 1994-2000 | Michigan State University, East Lansing, Michigan
Doctorate of Philosophy: Environmental Toxicology and Zoology
Dissertation Title: <i>Instrumental and Bioanalytical Measures of Endocrine Disruptors in Water</i>
Advisor: Dr. John P. Giesy (Distinguished Professor) |
| 1990-1994 | Thiel College, Greenville, Pennsylvania
Department of Chemistry
Bachelor of Arts: <i>Magna Cum Laude</i>
Major: Chemistry Minor: Medical Biology |

Employment Experience

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| 2010-Present | University of Arizona – Professor of Chemical and Environmental Engineering. Provide leadership and teaching in the areas of water treatment, contaminant fate and transport, and public/environmental health implications of water pollution. |
| 2010-Present | Arizona Laboratory for Emerging Contaminants (ALEC) – Co-Director. State-of-the-art analytical facility at University of Arizona with a focus on identification and quantification of emerging contaminants, such as pharmaceutical, endocrine disrupting compounds, and nanoparticles. |
| 2013-Present | Water & Energy Sustainable Technology Center (WEST) – Co-Director. The WEST Center represents a new facility that fosters collaboration among University of Arizona faculty, students, and staff with public and private sector partners. The WEST Center has achieved an agreement with Pima County Water Reclamation to construct a new $\approx 24,000$ ft ² facility for pilot-scale technology testing and laboratory evaluations in addition on multiple acres of outdoor demonstration-scale capabilities. |
| 2000-2010 | Research and Development – Project Manager. Southern Nevada Water Authority, Las Vegas, Nevada. Develop and manage diversity of drinking and wastewater projects related to emerging contaminants, conventional and advanced treatment technologies, and modern analytical method development. Achieve external research funding to support team of chemists, engineers, graduate students, and post-doctoral researchers. |
| 1998 – Present | Owner/Consultant. Total Environmental Solutions Inc., Boulder City, Nevada. Provide professional consultation, expert witness services, and build teams of experts capable of solving a diversity of challenging environmental issues. |
| 1994-2000 | Graduate Student. Michigan State University, East Lansing, Michigan. Department of Zoology and Institute of Environmental Toxicology. Developed novel analytical and bioanalytical approaches to identify and quantitate endocrine disrupting compounds and pharmaceuticals in the aquatic environment. |
| Summer 1995 | Research Internship. Bayer Corp., Biotechnology Division, Leverkusen, Germany. Synthesized and analyzed DNA and PNA strains for pharmaceutical discovery. Utilized DNA/PNA synthesizers and sequences. Purified strains using HPLC and verified molecular weights using Time of Flight Mass Spectrometry. |

Summer 1994 | **Research Internship.** Bayer Corp., New Martinsville, West Virginia. Developed spectral library using newly developed open-path FTIR instrumentation used to monitor potential leaks at industrial sites.

Recent Volunteer Efforts

2016-Present | **Fellow of the International Water Association:** Peer-nominated honor position for outstanding contributions and future potential addressing international water issues.

2014-Present | **US Environmental Protection Agency – Board of Scientific Counselors:** Member of the Safe and Sustainable Water Resources Subcommittee.

2013-Present | **World Health Organization:** Member of WHO Drinking Water Advisory Group and Water Reuse Guideline Development Expert Panel

2012-Present | **US Environmental Protection Agency – Science Advisory Board’s Drinking Water Committee:** Member of expert panel to advise the EPA Administrator on technical issues underlying EPA policies and decision making.

2017-2018 | **International Water Association:** Member of the Organizing Committee for the World Congress Meeting in Tokyo, Japan

2016-2017 | **International Water Association:** Member of the Organizing Committee for the World Congress Meeting in Brisbane, Australia

2013-2014 | **International Water Association:** Member of the Organizing Committee for the World Congress meeting in Lisbon, Portugal

2008-2012 | **National Academy of Science – National Research Council:** Member of Water Reuse expert panel

2011-Present | **International Water Association – Water Reuse Specialty Group:** Vice-Chair of group.

2010-2013 | **WaterReuse Association:** Member of the Board of Directors

2009-2010 | **National Association of Clean Water Agencies and Association of Metropolitan Water Agencies:** Co-chair of expert panel to author *Pharmaceuticals in the Water Environment*

2008-2011 | **Water Research Foundation:** Member of EDC Strategic Initiative Expert Panel

2008-2011 | **American Water Works Association:** Appointed Trustee of the Water Science & Research Division

2008-2013 | **WaterReuse Research Foundation:** Research Advisory Council (RAC) member

2008-2010 | **United Nations University & Gwangju Institute of Science and Technology:** Science Advisory Committee member.

2008-2009 | **American Water Works Association:** Chair of the Planning Committee for the Organic Contaminants Research Symposium – Austin Texas February 2009

2006 | **Expert Panel Member:** US EPA Contaminant Candidate List Classification Process Meeting

2004-2006 | **Federal Advisory Committee Member:** Endocrine Disruptor Methods Validation Advisory Committee (EDMVAC)

2004-2006 | **American Water Works Association:** Source Water Protection Committee – (Vice-Chair 2004-2006)

2002-2008 | **American Water Works Association:** Organic Contaminants Research Committee – (Chair 2005-2008)

2002-2005 | **Henderson Blue Ribbon Commission:** Member of special committee to promote educational excellence in Southern Nevada

2001-2004 | **National Advisory Council for Environmental Policy and Technology:** Member of the US EPA Federal Advisory Committee “*Endocrine Disruptor Methods Validation Subcommittee (EDMVS)*”

2000-2001 | **American Water Works Association:** Endocrine Disruptor & the Water Industry Symposium planning committee

Additional Relevant Experience

2014 - Present | **Co-Editor in Chief.** *Chemosphere* – an Elsevier journal with an impact factor of 3.3 (<http://www.journals.elsevier.com/chemosphere/>)

2014 - 2016 | **Member of University of Arizona Faculty Senate.** Nominated and endorsed by peers to serve in shared-governance of the university.

2013 | **Member.** National Water Research Institute. Expert Panel for Santa Clara Valley Water District's Potable Water Reuse.

2012 | **Member.** National Water Research Institute. Expert Panel on Biologically Degradable Organic Carbon (BDOC) as a Surrogate for Organics Removal in Groundwater Recharge

2011-2013 | **Chair.** National Water Research Institute. Expert Panel on Water Reuse in Tucson, Arizona

2011-2016 | **Visiting Professor.** National University of Singapore – National Environmental Research Institute.

2010-2013 | **Science Advisory Panel Member.** King Abdullah University of Science and Technology, Saudi Arabia.

2010-2012 | **Science Advisory Panel Member.** Southern California Coastal Water Research Program. *Constituents of Emerging Concern in Coastal and Marine Ecosystems*

2010-Present | **Adjunct Professor.** Environmental Science & Engineering, Gwangju Institute of Science and Technology, South Korea

2009-2010 | **Science Advisory Panel Member.** California Water Resources Control Board. *Constituents/Contaminants of Emerging Concern in Recycled Water*

2009 | **Effective Media Communications.** Professional training for communicating with news media. *The Ammerman Experience.* Houston, Texas

2009 | **Advanced Presentations Training.** Professional training in presentation of data in public forums

2008-2014 | **Fellow.** University of California, Santa Cruz. Center for Integrated Water Research

2007-2008 | **West Basin Water District Expert Panel.** Provide expert advice regarding water quality and technology issues related to water reuse operations at West Basin, California

2006-2011 | **Pepsi Corporation Water Quality Advisory Council.** Provide expert advice and scientific opinion regarding global water quality and treatment technology issues

2000 – 2010 | **Adjunct Faculty.** University of Nevada, Las Vegas. Act as a committee member for various graduate research programs. Aid in research efforts of faculty and students. Instruct classes and serve as a visiting lecturer

2000 – 2007 | **Adjunct Faculty.** State College of Southern Nevada, Las Vegas, Nevada. Instruct undergraduate science classes. Work with other faculty on local environmental issues

1997 – Present | **Peer Reviewer.** Peer reviewer for several journals including: *Analytical Chemistry, Environmental Science and Technology, Water Research, Journal of the American Water Works Association, Chemosphere, and others*

2000 & 2008 | **Invited Speaker.** National Public Radio (NPR) recorded in Las Vegas, Nevada. Interview regarding pharmaceuticals and personal care products in Lake Mead, Nevada

Funded and Pending Research Projects

2016 | **Principal Investigator – Consumer Healthcare Productions Association:** “Evaluation of the Occurrence and Fate of Common Over-the-Counter Medications”

2016 | **Co-Principal Investigator – National Science Foundation:** “Increasing Water Recovery from Nanofiltration and Reverse Osmosis using Bipolar Membrane Electrodialysis and Electrochemically

- Promoted Fluidized Bed Crystallization”
- 2016 **Co-Principal Investigator – WasteReuse Research Foundation:** “Characterization and Treatability of Organic Carbon from Direct Potable Reuse Processes Compared to Surface Water Supplies” Project 15-02
- 2015 **Co-Principal Investigator – Johnson & Johnson Corporation:** Asthma Protection: Mechanisms and Agents
- 2015 **Co-Principal Investigator – WasteReuse Research Foundation:** “Advancing the Potential for Direct Potable Reuse through Novel Sensor Systems and Effective Decision Tools” Project 14-01
- 2015 **Co-Principal Investigator – Federal Emergency Management Agency (FEMA):** Cancer Prevention in the Fire Service: Exposure Assessment, Toxic Effects and Risk Management
- 2014 **Co-Principal Investigator – Water Research Foundation:** “Assessment of Techniques to Evaluate and Demonstrate the Safety of Water from Direct Potable Reuse Treatment Facilities”
- 2014 **Co-Principal Investigator – WasteReuse Research Foundation:** “Model Public Communication Plan for Advancing Direct Potable Reuse Acceptance”
- 2013-2014 **Principal Investigator – Card Technologies:** “Evaluation of Chemical and Microbial Contaminant Attenuation through Catalytic Activated Carbon”
- 2013-2015 **Co-Principal Investigator – Water Research Foundation:** “Core Messages for Priority Contaminants of Emerging Concern”
- 2013-2015 **Co-Principal Investigator – WasteReuse Research Foundation:** “Tucson Water Potable Reuse Demonstration Project” (led by CH2M Hill)
- 2013-2014 **Co-Principal Investigator – WasteReuse Research Foundation:** “Evaluation of Current and Alternative Strategies for Managing Chemicals of Emerging Concern in Water”
- 2012-2015 **Principal Investigator – Suez Environment:** “Investigation of Treatment Technologies for Fresh Water Reverse Osmosis Brine”
- 2012-2013 **Co-Principal Investigator – WasteReuse Research Foundation:** “Equivalency of Advanced Treatment Trains for Potable Reuse” – Project# 11-02
- 2012-2013 **Co-Principal Investigator – Water Research Foundation:** “Decision Support System for EDCs and PPCPs” – Project# 4386
- 2012-2014 **Co-Principal Investigator – WasteReuse Research Foundation:** “Monitoring for Reliability and Process Control of Potable Reuse Applications” – Project# 11-01
- 2012-2013 **Co-Principal Investigator – WasteReuse Research Foundation:** “Role of Retention Time in the Environmental Buffer of Indirect Potable Reuse Projects” - Project# 10-05
- 2012-2013 **Co-Principal Investigator – Water Environment Research Foundation:** “Holistic Assessment of CECs in Wastewater & Receiving Water” - Project in conjunction with City of Sacramento, CA
- 2012-2013 **Principal Investigator – PWN Water, The Netherlands:** “The Potential Formation of Mutagenic Nitrogenous Compounds during UV Treatment of Waters Containing Nitrate”
- 2012 **Principal Investigator – PWN Technologies, The Netherlands:** “Surface Chemistry and Formation of Hydroxyl Radical by Ozone or Hydrogen Peroxide in Combination with Ceramic Membrane”
- 2012 **Co-Principal Investigator - Charoen Pokphand Foods Public Company, Bangkok Thailand:** “Studies Intended to Determine the Etiology of the 30 Day Mortality Syndrome, also Known as the Early Mortality Syndrome (“EMS”)”
- 2012 **Principal Investigator – Consumer Specialty Products Association:** “Occurrence of DEET in Water: Analytical Confirmation and Alternative Sources”
- 2011-2013 **Co-Principal Investigator – WasteReuse Research Foundation:** “Development of Bio-Analytical

- Techniques to Assess the Potential Human Health Impacts of Recycled Water” – Project# 10-07
- 2011-2013 **Co-Principal Investigator – California State Water Resources Control Board:** “Evaluating Bioanalytical Methods as Screening Tools for Monitoring of CECs in California Recycled Water Applications” – Administered by Southern California Coastal Water Research Project 10-096-250
- 2011-2012 **Principal Investigator – USGS:** “Iodinated Disinfection Byproduct Formation from Water Reuse Practices”
- 2011-2012 **Principal Investigator – United Water:** “Water and Energy Sustainability at United Water Facilities” – Project 11-CHE-319
- 2011-2012 **Co-Principal Investigator – Water Sustainability Program (University of Arizona):** Fate of Trace Organic Contaminants during Effluent Infiltration along the Lower Santa Cruz River – Effects on Aquifer Water Quality”
- 2011 **Principal Investigator – Southern California Coastal Water Research Project:** “Screening Study for Constituents of Emerging Concern (CECs) in Selected Freshwater Rivers in the Los Angeles Region” Funded by California State Water Resources Control Board 10-085-140
- 2010-2011 **Principal Investigator – WateReuse Research Foundation:** “Use of UV and Fluorescence Spectra as Surrogate Measures for Contaminant Oxidation and Disinfection in the Ozone/H₂O₂ Advanced Oxidation Process” – Project# 09-10
- 2010-2011 **Co-Principal Investigator – WateReuse Research Foundation:** “Effect of Prior Knowledge of Unplanned Potable Reuse on the Acceptance of Planned Potable Reuse” – Project# 09-01
- 2010-2011 **Principal Investigator – Water Sustainability Program (University of Arizona):** “Parallel Evaluation of Ozone and UV Advanced Oxidation for Reducing Toxicity in Reclaimed Water”
- 2009-2011 **Principal Investigator – WateReuse Research Foundation:** “Use of Ozone in Water Reclamation for Contaminant Oxidation” – Project# 08-05
- 2009-2011 **Co-Principal Investigator – Water Environment Research Foundation:** “Trace Organic Compounds Removal during Wastewater Treatment – Categorizing Wastewater Treatment Processes by their Efficacy in Reduction of a Suite of Indicator TOrCs” – Project# CEC4R08
- 2009-2011 **Principal Investigator (with Brett Vanderford – SNWA Research Chemist) – Water Research Foundation:** “Evaluation of Analytical Methods for EDCs and PPCPs via Interlaboratory Comparison” – Project# 4167
- 2009-2011 **Principal Investigator (with Benjamin Stanford – SNWA Post-Doctoral Researcher) – WateReuse Foundation:** “Pilot-Scale Oxidative Technologies for Reducing Fouling Potential in Water Reuse and Drinking Water Treatment Membrane Systems” – Project# 08-008
- 2008-2009 **Principal Investigator – American Water Works Association/American Water Works Association Research Foundation:** “Hypochlorite – An Assessment of Factors That Influence the Formation of Perchlorate and Other Contaminants” – Project# 712/4147
- 2008-2010 **Principal Investigator – American Water Works Association Research Foundation:** “Role of bromamines on disinfection byproduct formation and impact on application of chloramination and ozonation” – Project# 4159
- 2007-2009 **Principal Investigator – WateReuse Foundation:** “Comparisons of Chemical Composition of Reclaimed and Conventional Waters” Project# 06-006
- 2007-2008 **Principal Investigator – WateReuse Foundation:** “Identifying Hormonally Active Compounds, Pharmaceutical Ingredients, and Personal Care Product Ingredients of Most Health Concern From Their Potential Presence in Water Intended for Indirect Potable Reuse” Project# 05-005
- 2007-2009 **Principal Investigator (with Fernando Rosario – SNWA Post-Doctoral Researcher) – WateReuse Foundation:** “Optimization of Advanced Water Treatment Processes for Water Reuse” Project# 06-012
- 2006-2009 **Co-Principal Investigator – WateReuse Foundation:** “Development of Surrogates To Determine

	The Efficacy Of Groundwater Recharge Systems For The Removal Of Trace Organic Chemicals” Project# 05-004
2007-2009	Co-Principal Investigator – American Water Works Association Research Foundation: “Low Dose Risks from Bromate: The Relationship between Drinking Water Concentrations and the Actual Dose to Susceptible Organs in Rats and Humans” Project#4042
2005-2007	Co-Principal Investigator – WateReuse Foundation: “Reaction Rates and Mechanisms of Advanced Oxidation Processes for Water Reuse” Project# 04-017
2005-2006	Principal Investigator – American Water Works Association Research Foundation: “Comprehensive Utility Guide for Endocrine Disruptors and Pharmaceuticals in Drinking Water” Project# 3033
2004-2006	Principal Investigator – American Water Works Association Research Foundation and WateReuse Foundation: “Toxicological Relevance of EDC and Pharmaceuticals in Drinking Water” AwwaRF # 3085 & WRF 04-003
2004-2006	Co-Principal Investigator – WateReuse Foundation: <i>Colorado School of Mines as PI</i> “Development of Indicators and Surrogates for Chemical Contaminant Removal during Wastewater Treatment and Reclamation” Project# WRF-03-014
2004-2006	Co-Principal Investigator – WateReuse Foundation: <i>Carollo Engineers as PI</i> “Reclaimed Water Aquifer Storage and Recovery: Potential Changes in Water Quality” Project# WRF-03-009
2004-2006	Co-Principal Investigator – Water Environment Research Foundation: <i>Colorado School of Mines as PI.</i> “Contributions of Household Chemicals to Sewage and their Relevance to Municipal Wastewater Systems and the Environment” Project# 03-CTS-21UR
2002-2005	Principal Investigator - American Water Works Association Research Foundation: “Evaluation of Conventional and Advanced Treatment Processes to Remove Endocrine Disruptors and Pharmaceutically Active Compounds” Project #2758
2001-2004	Principal Investigator - Strategic Environmental Research and Development Program (for Department of Defense): “Toxicological Impact of Ammonium Perchlorate on Fish” Project# 1222
1998-2000	Principal Investigator - Southern Nevada Water Authority/U.S. Bureau of Reclamation/National Park Service: “Toxicity Identification and Evaluation of Xenobiotic Compounds in Lake Mead, Nevada”
1998-2000	Principal Author - Chemical Manufacturers Association: “Identification and Quantitation of Alkylphenols from Fish Tissues”
1997	Principal Author - Las Vegas Valley Water District: “Screening of Drinking Water for Possible Endocrine Disrupting Compounds”
1997	Principal Author - Chemical Manufacturers Association: Instrument grant for alkylphenol analyses

Invited Presentations and Seminars (Since 2007)

May 2017	Morelia, Mexico: Invited plenary keynote presentation for 5 th International Water Association Young Water Professionals conference, “Exploring the Great Unknown: Tools to Assess Complex Environmental Mixtures” (also, Career Pathways and Opportunities for Young Professionals)
May 2017	Recife, Brazil: Invited presentations for Treatment Technologies and Monitoring Tools to Implement Water Reuse meeting, “Ensuring Safety of Potable Water Reuse” and “Essential Tips for Publication of Scientific Data: An Editor-in-Chief’s View”
April 2017	New York, New York: Invited presentation for the Safe Water Network Board of Directors meeting, “The Water & Energy Sustainable Technology: Opportunities for Synergistic Collaboration”
April 2017	San Francisco, California: Invited presentation for American Chemical Society Annual Meeting,

- Division of Environmental Chemistry, “Role of Non-Targeted Analysis for Ensuring Water Safety”
- March 2017 **Tokyo, Japan:** Invited Seminar sponsored by METAWATER, “Opportunities for Technology Advancement in Potable Water Reuse”
- February 2017 **Kyoto, Japan:** Invited presentation for International Symposium of the Kyoto Biomolecular Mass Spectrometric Society, “Novel Techniques for Addressing Environmental Risk and Drug Discovery”
- January 2017 **La Jolla, California:** Invited presentation for International Life Sciences Institute Annual Conference, “Drinking Water Contaminants: The Next Generation of Water Safety”
- December 2016 **Phoenix, Arizona:** Invited presentation for National Association of Energy Service Companies, “The Future of Water Sustainability and Security”
- November 2016 **Singapore:** Invited seminar for Lee Kuan Yew School of Public Policy, National University of Singapore, “The Next Generation of Ensuring Water Quality – History and Future of Water Policy”
- November 2016 **Singapore PUB:** Invited short-course presentation for Singapore Water Academy, “Managing Micropollutants, Disinfection Byproducts, and Emerging Contaminants”
- October 2016 **Seoul, S. Korea:** Invited department seminar on advanced water technologies for ensuring water safety, Kwangwoon University
- October 2016 **Seoul, S. Korea:** Invited opening keynote address, “The Next Generation of Ensuring Water Safety”, Seoul International Water Conference – Hosted by Seoul Metropolitan Government
- October 2016 **Gwangju, S. Korea:** Invited seminar, “Exploring the Great Unknown: New Tools to Assess Complex Mixtures”, Gwangju Institute of Science & Technology (GIST)
- October 2016 **Hong Kong, China:** Invited delegate and presentation, “The Next Generation of Ensuring Water Safety”, Institute for Advanced Study (IAS), Hong Kong University of Science & Technology
- August 2016 **Orange County, California:** Invited Keynote Presentation for National Environmental Monitoring Conference (NEMC) on characterization of highly-complex environmental mixtures
- July 2016 **Singapore Water Week:** Session Chair and Invited presentation, “Comparison of Oxidants In UV-Advanced Oxidation Processes”
- June 2016 **San Antonio, Texas:** Invited presentation for American Society for Mass Spectrometry (ASMS) – Advanced Analytical Techniques for Characterizing the Exposome
- June 2016 **San Francisco, California:** Invited presentation for BlueTech Forum – Sensor Technologies and Autonomous Water Treatment.
- May 2016 **Washington, DC:** Invited presentation for Consumer Healthcare Products Association (CHPA) Regulatory, Scientific & Quality Conference.
- May 2016 **Shanghai, China:** Invited Seminar for Tongji University, Department of Environmental Engineering. “Exploring the Great Unknown: Modern Tools for Complex Mixture Characterization”
- February 2016 **Huntington Beach, California:** Invited presentation on the use of *in vitro* bioassays for evaluating complex chemical mixtures in recycled water (California Water Board and WateReuse Foundation).
- December 2015 **Tokyo, Japan – University of Tokyo:** Invited presentation as part of visiting scholar program. “Exploring the Composition and Toxicity of Complex Environmental Mixtures”
- December 2015 **Tokyo, Japan – National Institute of Public Health:** Invited seminar on “Emerging Water Contaminants: Implications for Water Reuse and Sustainability”
- November 2015 **Salt Lake City, Utah – SETAC Conference:** Invited Presentations, “Environmental Determinants of Disease Susceptibility” and “Identification and Characterization of Glucocorticoid Agonists in the Aquatic Environment.”
- October 2015 **Tucson, Arizona: Citizens Water Advisory Committee** – Invited Briefing: “The Impact Of Emerging Contaminants On Water Sustainability”
- October 2015 **Orange County, California: State Water Resources Control Board** – Invited Opening

	Presentation, “Overview: State of the science of CEC monitoring”
October 2015	Kaohsiung, Taiwan – Invited Plenary Presentation “The Impact of Emerging Contaminants on Water Sustainability”
August 2015	San Diego, California – Invited Presentation “Toilet to Tap: Is it Safe?” (Conference on Small Molecule Science – CoSMos)
July 2015	Singapore – Seminar “Essential Tips for Publication of Scientific Data: An Editor-in-Chief’s View”
July 2015	Harbin, China – Invited Presentation on Sensor Technologies and Bioassays for Ensuring Potable Reuse Safety (International Water Association – Water Reuse)
March 2015	Tokyo, Japan – Invited Keynote Presentation for the CREST Symposium on Assessing the Safety of Recycled Water
February 2015	Santa Clara, California – Invited Agilent Seminar on The Development and Use of Advanced Analytical Tools for Characterization Complex Mixtures in Water
January 2015	Riverside, California – Invited by Graduate Student committee from University of California, Riverside, to deliver Seminar on Potable Water Reuse
December 2014	Singapore - Invited instructor for Singapore PUB two-day training course on advanced oxidation processes
December 2014	Tucson, Arizona – Invited Presentation to Regional Wastewater Reclamation Advisory Committee (RWRAC) – Role of Technology in Sustainable and Safe Water.
November 2014	San Diego, California – Invited Keynote Plenary Presentation – The role of advanced oxidation technologies in potable water reuse
November 2014	Vancouver, Canada – Invited presentation regarding environmental metabolomics for complex mixture characterization
October 2014	Hong Kong - The 11th International Symposium on Persistent Toxic Substances – Invited presentation on the use of bioassays for assessment of water quality
October 2014	Daegu, South Korea – International Water Association Water Reuse Regional Conference- Invited plenary presentation on the safety of water reuse
September 2014	Paris, France – Suez Environment – Seminar on recent developments in emerging contaminant and brine treatment process research
September 2014	Lisbon, Portugal – International Water Association World Congress – Invited speaker on potable water reuse regulations
September 2014	Dallas, Texas – WateReuse Association Annual Conference – Invited speaker on international perspectives for potable water reuse practices
June 2014	Kyoto University, Japan – Environmental Engineering Department – Invited seminar on novel methods for characterizing water quality and treatment efficacy
June 2014	Kobe University, Japan – Global Water School – Invited seminar on current and future challenges for water safety and sustainability
June 2014	SIRIM Berhad, Shah Alam, Malaysia – Invited lecture and education/training program for emerging water contaminant detection and treatment
June 2014	Singapore – Singapore International Water Week - Invited presentation on emerging contaminants in water and their removal through treatment technologies
May 2014	Munich, Germany – Seminar for the Technical University of Munich – Invited seminar on ensuring the safety of recycled water
May 2014	Andijk, The Netherlands – PWN Technologies Andijk III Celebration – Invited Plenary Lecture in the role of technology in the sustainability and safety of water

- April 2014 **Banff, Canada** – WaterTech Symposium & Environmental Services Association of Alberta – Invited Keynote Lecture on emerging water quality issues
- March 2014 **Denver, Colorado** – American Water Works Association – Invited presentation on sensor technologies for on-line monitoring and process control
- January 2014 **Jeddah, Saudi Arabia – King Abdulaziz University** – Invited Distinguished Lecture on the safety and reliability of potable water reuse
- November 2013 **Newport Beach, California – WateReuse Foundation Direct Potable Reuse Conference** – Invited presentation on monitoring technologies for assuring the safety of reuse water
- October 2013 **Windhoek, Namibia – International Water Association Water Reuse Meeting** – Plenary lecturer regarding the implementation and barriers to potable water reuse in the United States
- October 2013 **Kuala Lumpur, Malaysia – International Conference on Water and Wastewater Management (ICWWM)** – Invited organizer and plenary lecturer regarding the implementation and technological advances of direct potable water reuse
- September 2013 **Birmingham, United Kingdom – Agilent Technologies European Users Group** – Invited plenary lectures regarding novel disinfection byproduct identification and history of potable water reuse
- September 2013 **Colorado School of Mines** – Invited seminar for College of Engineering on the development, use, and future of on-line sensor technologies and potential for the smart water grid
- September 2013 **University of Pittsburgh** – Invited seminar for Civil & Environmental Engineering on new formation and control of novel disinfection products
- August 2013 **Racine, Wisconsin – Consumer Products Association** – Invited lecture regarding challenges and forecasts for the analysis of DEET in environmental samples
- August 2013 **Singapore – Singapore Economic Development Board** – Invited lecture regarding opportunities for advanced sensor technologies for water treatment and reuse
- July 2013 **Brisbane, Australia – Australian Water Association** – Invited opening plenary presentation regarding the state of potable water reuse: progress and barriers
- June 2013 **Kuala Lumpur, Malaysia – Agilent Technologies** – Invited presentation on miniaturized high-speed methods for measuring trace contaminants in water
- May 2013 **Phoenix, Arizona – WateReuse Association** – Invited lunch plenary presentation on history and future of potable water reuse
- May 2013 **Phoenix, Arizona – Arizona Water Association** – Invited presentation and sustainability panel member
- April 2013 **Pittsburgh, Pennsylvania – University of Pittsburgh** – Invited seminar for Civil and Environmental Engineering department.
- February 2013 **San Francisco, California – Agilent Corporation** – Invited presentation regarding newest generation of monitoring tools for emerging contaminants
- November 2012 **Long Beach, California – SETAC Meeting** – Invited presentation on untargeted analysis in environmental samples
- November 2012 **Golden, Colorado – Colorado School of Mines** – Invited seminar for NSF Engineering Research Center on bioanalytical approaches for comprehensive screening of complex mixtures
- November 2012 **East Lansing, Michigan - Michigan State University** – Invited seminar speaker on emerging water quality and sustainability issues
- October 2012 **Raleigh, North Carolina – National Institute for Environmental Health Sciences (NIEHS)** – Invited expert panelist for discussion on in vitro bioassays for use in screening complex mixtures.
- October 2012 **Boise, Idaho** – Invited speaker for workshop on emerging contaminants in water reuse for State of Idaho

- October 2012 | **Brownwood, Texas** – Invited seminar on direct potable water reuse and findings of the NRC Panel
- October 2012 | **Utrecht, The Netherlands** – Invited presentation for the KWR research center. *Potable Water Reuse: Trends in Monitoring, Treatment, and Health*
- October 2012 | **Leeuwarden, The Netherlands** – Invited presentation for the 9th Annual Wetsus Conference. *AOP and Water Sustainability: Reuse and Contaminant Issues facing a Thirsty World.*
- September 2012 | **Busan, S. Korea** – Invited Harremöes Lecture (closing plenary keynote). *Trace Organic Contaminants: An International Perspective on an Emerging Issue*
- September 2012 | **Incheon, S. Korea** – Invited seminar by the Korean National Institute for Environmental Research, *The US Regulatory Process for Monitoring and Control of Emerging Water Quality Contaminants*
- September 2012 | **Busan, S. Korea** – Invited presentation and panel member in special session on water reuse by the International Water Association
- September 2012 | **Busan, S. Korea** – Invited presentation and panel member for the workshop on “How Safe is Safe.”
- September 2012 | **Busan, S. Korea** – Invited presenter and panel member for the International Water Association special workshop on biosolids. *Emerging Contaminants in Biosolids: Implications for Disposal*
- September 2012 | **Tucson, Arizona** – Invited Webcast at the request of the Arizona Department of Environmental Quality. Emerging issues for water sustainability in the arid Southwest.
- August 2012 | **Houston, Texas** – Invited seminar for Rice University, College of Engineering, on water reuse as a critical portion of the US water portfolio
- August 2012 | **Los Angeles, California** – Invited presentation for the National Water Research Institute on the findings of the National Academy of Science’s NRC Panel on Water Reuse
- August 2012 | **Hanoi, Viet Nam** – Invited seminar for the Ministry of the Environment, Viet Nam. Presentation based on opportunities for monitoring and health assessment of the Mekong Delta.
- July 2012 | **Kuala Lumpur, Malaysia** – Invited presentation for the University Kebangsaan Malaysia regarding the identification and health relevance of emerging water quality contaminants
- July 2012 | **Singapore** – Invited presentation at Singapore International Water Week on the use of ozone and UV AOP technologies for potable water reuse
- June 2012 | **Ho Chi Minh City, Viet Nam** – Invited presentation on state of the art techniques for monitoring water quality in surface and ground waters
- June 2012 | **Brisbane, Australia** – Invited expert panel member and presenter for special workshop on potable water reuse for International Water Association
- June 2012 | **Brisbane, Australia** – Plenary keynote presentation for International Water Association’s Leading Edge Technology meeting
- May 2012 | **Seoul, S Korea** – Invited keynote speakers at Smart Water Grid Symposium (delivered by Glenn Schrader due to travel conflict)
- April 2012 | **Gwangju, S. Korea** – Invited speaker at Pacific Basin Consortium for Environment and Health.
- April 2012 | **Shanghai, China** – Peking University - Invited presentation on emerging contaminants and water reuse
- April 2012 | **Shanghai, China** – Jiaotong University - Invited presentation at symposium of Environmental Engineering
- March 2012 | **Jeddah, Saudi Arabia** – Invited seminar at King Abdullah University of Science and Technology (KAUST)
- March 2012 | **Olympia, Washington** – Invited speaker at water reuse workshop for LOTT Alliance
- December 2011 | **Las Vegas, Nevada** – Invited speaker at Agilent Technologies Annual Meeting
- December 2011 | **Flagstaff, Arizona** – Invited speaker and panel member for public meeting on water reuse

- November 2011 **Genoa, Italy** – Invited speaker for symposium on EDCs in water supplies
- November 2011 **Santa Clara, California** – Invited seminar for Agilent Technologies
- November 2011 **Phoenix, Arizona** – Invited speaker for Water Quality Technology Conference (WQTC) – reuse special session
- October 2011 **Phoenix, Arizona** – Invited speaker for Western Coalition of Arid States (WESTCAS)
- September 2011 **Barcelona, Spain** – Invited keynote presentation at International Water Association Water Reclamation and Reuse Conference
- August 2011 **Dallas, Texas** – Invited presentation for EPA Region 9 Workshop
- July 2011 **Singapore** – Invited presentation at the Singapore International Water Week
- June 2011 **Amsterdam Netherlands** – IWA Leading Edge Technology meeting – Invited Keynote on Water Reuse and Emerging Water Quality Issues
- May 2011 **Beijing China** – Peking University – Invited Presentation on Water Reuse
- May 2011 **Beijing China** – Tsinghua University – Invited Plenary Presentation at Symposium EDCs, PPCPs, and DBPs in Water
- April 2011 **Cambridge MA** – Harvard University – Invited Presentation at Symposium on R&D and Technology for Water
- February 2011 **Northridge CA** – University of California, Northridge – Invited Presentation on PPCPs in Water Supplies: Sustainable Solutions
- November 2010 **Raleigh NC** – US EPA Research Triangle Park – Invited Presentation on Emerging Contaminants and Water Reuse
- September 2010 **Washington DC** – Congressional Briefing on Pharmaceuticals in the Environment
- July 2010 **Singapore** – **Singapore International Water Week**. Invited Session Chair and Speaker
- June 2010 **Holderness, NH** – Gordon Research Conference: Water – Invited Presentation regarding Water Reuse and Emerging Water Quality Challenges
- May 2010 **Racine, WI** – Wingspread Meeting on Environmental Estrogens – Invited Panelist
- May 2010 **Cape Cod, MA** – Waquoit Bay Reserve – Invited Presentation regarding Emerging Contaminants in Septic Systems and Groundwater
- March 2010 **Boston, MA** – Tufts University – Invited Presentation for the National Academy of Engineering
- November 2009 **Gwangju, S. Korea** – United Nations University – Science Advisory Board
- November 2009 **Boston, MA** – Harvard School of Public Health – Invited Presentation on DBPs
- October 2009 **Princeton, NJ** – FASTER Meeting – Invited Presentation
- September 2009 **Brisbane, Australia** – International Water Association WRRS – Invited Keynote
- September 2009 **Tokyo, Japan** – International Ozone Association – Invited Keynote
- August 2009 **Washington, DC** – ACS National Conference – Invited Keynote
- August 2009 **Mount Holyoke, MA** – Gordon Research Conference on Disinfection Byproducts
- June 2009 **Singapore** – IWA Leading Edge Technology Meeting – Invited Keynote
- June 2009 **San Francisco, CA** – IWA Micropoll Meeting – Invited Keynote Presentation
- June 2009 **Toronto, Canada** – Ontario Ministry of the Environment – Invited Presentation
- May 2009 **Boise, ID** – Idaho Water Reuse Symposium – Invited Presentation
- May 2009 **Salem, OR** – Pacific Northwest Awwa meeting – Invited Presentation

- April 2009 **Costa Mesa, CA** – So. Cal. Coastal Water Research Program – Invited Presentation
- March 2009 **Boston, MA** – Harvard University’s School of Public Health – Invited Seminar
- March 2009 **Washington, DC** – US Senate – Invited Briefing
- March 2009 **New York, NY** – Hazen & Sawyer – Invited Seminar
- March 2009 **San Diego, CA** – Association of Environmental Health Sciences – Invited Keynote
- March 2009 **Las Vegas, NV** – US/Japan Joint Water Conference – Invited Presentation
- February 2009 **Washington DC** – US House of Representatives – Invited Briefing
- February 2009 **Phoenix, Arizona** – Arizona Water Association – Invited Seminar
- February 2009 **Austin, Texas** – Awwa Emerging Contaminant Symposium – Conference Chair
- January 2009 **Delft, The Netherlands** – Vakantiecursus in Drinkwatervoorziening – Invited Presentation
- January 2009 **Greenville, South Carolina** – Southeastern Regional Water Technology Transfer Conference – Invited Presentation
- November 2008 **East Lansing, Michigan** – Michigan State University – Invited Seminar
- November 2008 **Cincinnati, Ohio** – Water Quality Technology Conference – Invited Presentation
- October 2008 **Monterey, California** – WaterReuse Foundation – Invited Presentation on agricultural water reuse
- October 2008 **Gwangju, S. Korea** – United Nations University – Science Advisory Board Meeting
- September 2008 **Tucson, Arizona** – University of Arizona – Invited Seminar
- August 2008 **Orlando, Florida** – International Ozone Association – Invited Plenary Presentation
- June 2008 **Singapore** – Invited delegate for World Water Leaders Summit
- March 2008 **Long Beach, California** – California Water Environment Association – Invited Presentation
- March 2008 **Cork, Ireland** – Invited presentation on emerging water quality issues
- March 2008 **Zurich, Switzerland** – Invited Seminar for EAWAG on emerging contaminants
- March 2008 **Lyon, France** – Invited speaker for EU NORMAN meeting on bioassay techniques
- February 2008 **Mumbai, India** – Invited expert panel member for Pepsi Corporation FEMA meeting
- December 2007 **University of California, Berkeley** – Invited Seminar for Department of Engineering
- November 2007 **Canberra, Australia**: EDC/PPCPs in Australia – Invited Keynote Presentation
- November 2007 **Brisbane, Australia** – Invited Seminar for Queensland Water
- November 2007 **Gwangju, South Korea** – Invited Presentation at Opening of National Desalination Program (SeaHERO)
- October 2007 **Costa Mesa, California**: National Groundwater Association – Keynote Presentation
- October 2007 **Seattle, Washington**: Association of Metropolitan Water Agencies – Invited Presentation
- September 2007 **University of Massachusetts, Amherst** – Invited Seminar in Water Sustainability Lecture Series
- September 2007 **Tampa, Florida**: WaterReuse Association – Invited Panelist in Closing Plenary Session
- August 2007 **Los Angeles, California**: International Ozone Association – Invited Keynote Presentation
- August 2007 **Carson City, Nevada**: Nevada Water Resources Association – Invited Keynote Presentation
- August 2007 **Water Environment Federation** – Webcast on Emerging Issues – Invited Presentation
- July 2007 **Flagstaff, Arizona**: Arizona Water Reuse Association – Invited Presentation
- July 2007 **Los Angeles, California**: California Urban Water Association – Invited Seminar
- May 2007 **Sacramento, California**: California EPA DTSC – Invited Presentation
- May 2007 **Tampa, Florida**: World Environmental & Water Resources Congress – Keynote Presentation

April 2007	Santa Rosa, California – Invited Seminar for the Public Utilities Board
April 2007	Greensboro, North Carolina – Syngenta’s Distinguished Speaker Series
April 2007	Athens, Georgia: Society for Environmental Toxicology and Chemistry – Invited Lecturer
February 2007	Sacramento, California: California DHS Meeting – Invited Seminar
February 2007	New York, New York: AwwaRF/KIWA CEO Conference – Invited Presentation
January 2007	Okinawa, Japan: Japanese-U.S. Conference on Water Quality and Wastewater Control – Invited Presentation

Publications (Google Scholar h-index = 62 and i10-index = 144 with 14,382 citations as of 1st December 2016)

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202. 2016 Gerrity D, Lee Y, Gamage S, Lee M, Pisarenko A, Trenholm RA, Von Gunten U, **Snyder SA**. *Emerging investigators series: prediction of trace organic contaminant abatement with UV/H₂O₂: development and validation of semi-empirical models for municipal wastewater effluents*. *Environmental Science: Water Research & Technology*. 2:460-473.

201. 2016 Anumol T, Dagnino S, Vandervort DR, **Snyder SA**. *Transformation of polyfluorinated compounds in natural waters by advanced oxidation processes*. *Chemosphere*. 144:1780-1787.

200. 2016 Lee Y, Gerrity D, Lee M, Gamage S, Pisarenko A, Trenholm RA, Canonica S, **Snyder SA**, Von Gunten U. *Organic Contaminant Abatement in Reclaimed Water by UV/H₂O₂ and a Combined Process Consisting of O₃/H₂O₂ Followed by UV/H₂O₂: Prediction of Abatement Efficiency, Energy Consumption, and Byproduct Formation*. *Environmental Science & Technology*. 50(7):3809-3819.

199. 2016 Stanford BD, Benotti MJ, **Snyder SA**. *Impact of Endocrine Disrupting Compounds to the Water Industry*. Chapter 17 from *Endocrine Toxicology: 3rd Edition*, Editors Eldridge JC and Stevens JT.

198. 2016 Aghdam MA, Zraick F, Simon J, Farrell J, **Snyder SA**. *A novel brine precipitation process for higher water recovery*. *Desalination*. 385:69-74.

197. 2016 Sgroi M, Roccaro P, Korshin GV, Greco V, Sciuto S, Anumol T, **Snyder SA**, Vagliasindi FGA. *Use of fluorescence EEM to monitor the removal of emerging contaminants in full scale wastewater treatment plants*. *Journal of Hazardous Materials*. 323:367-376.

196. 2016 Dzierlenga AL, Clarke JD, Klein DM, Anumol T, **Snyder SA**, Li HY, Cherrington N. *Biliary Elimination of Pemetrexed is Dependent on Mrp2 in Rats: Potential Mechanism of Variable Response in Nonalcoholic Steatohepatitis*. *Journal of Pharmacology and Experimental Therapeutics*. DOI: <http://dx.doi.org/10.1124/jpet.116.234310>

195. 2016 Rodriguez-Freire L, Abad-Fernández N, Sierra-Alvarez R, Hoppe-Jones C, Peng H, Giesy JP, **Snyder SA**, Keswani M. *Sonochemical degradation of perfluorinated chemicals in aqueous film-forming foams*. *Journal of Hazardous Materials*. 317:275-283.

194. 2016 Wong KT, Yoon Y, **Snyder SA**, Jang M. *Phenyl-functionalized magnetic palm-based powdered activated carbon for the effective removal of selected pharmaceutical and endocrine-disruptive compounds*. *Chemosphere*. 152:71-80.

193. 2016 Ziska AD, Park M, Anumol T, **Snyder SA**. *Predicting trace organic compound attenuation with spectroscopic parameters in powdered activated carbon processes*. *Chemosphere*. 156:163-171.

192. 2016 Goh SXL, Duarah A, Zhang L, **Snyder SA**, Lee HK. *Online solid phase extraction with liquid chromatography–tandem mass spectrometry for determination of estrogens and glucocorticoids in water*. *Journal of Chromatography A*. 1465:9-19.

191. 2016 Anumol T, Vijayanandan A, Park M, Philip L, **Snyder SA**. *Occurrence and fate of emerging trace organic chemicals in wastewater plants in Chennai, India*. *Environment International*. 92:33-42.

190. 2016 Merel S and **Snyder SA**. *Critical assessment of the ubiquitous occurrence and fate of the insect repellent N, N-diethyl-m-toluamide in water*. Environment International. 96:98-117
189. 2016 Balachandran R, Patterson Z, Deymier P, **Snyder SA**, Keswani M. *Understanding Acoustic Cavitation for Sonolytic Degradation of p-Cresol as a Model Contaminant*. Chemosphere. 147:52-59.
188. 2016 Sgroi M, Roccaro P, Oelker G, **Snyder SA**. *N-nitrosodimethylamine (NDMA) formation during ozonation of wastewater and water treatment polymers*. Chemosphere. 144:1618-1623.
187. 2016 Cui M, Jang M, Kang K, Kim D, **Snyder SA**, Khim J. *A novel sequential process for remediating rare-earth wastewater*. Chemosphere. 144:2081-2090.
186. 2016 **Snyder SA**. *One year at Chemosphere: Reflections on the peer review process*. Chemosphere. 144:xv-xvi.
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183. 2016 Jia A, Wu S, Daniels K, **Snyder SA**. *Balancing the Budget: Accounting for Glucocorticoid Bioactivity and Fate during Water Treatment*. Environmental Science & Technology. 50(6):2870-2880.
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181. 2016 Chen Q, Jia A, **Snyder SA**, Gong Z, Lam SH. *Glucocorticoid activity detected by in vivo zebrafish assay and in vitro glucocorticoid receptor bioassay at environmental relevant concentrations*. Chemosphere 144:1162-1169.
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179. 2015 Kittappa S, Pichiah S, Kim JR, Yoon Y, **Snyder SA**, Jang M. *Magnetised nanocomposite mesoporous silica and its application for effective removal of methylene blue from aqueous solution*. Separation and Purification Technology 153:67-75.
178. 2015 Lee DG, Roehrdanz PR, Feraud M, Ervin J, Anumol T, Jia A, Park M, Tamez C, Morelius EW; Gardea-Torresdey JL, Izbicki J, Means JC, **Snyder SA**, Holden PA. *Wastewater compounds in urban shallow groundwater wells correspond to exfiltration probabilities of nearby sewers*. Water Res. 85:467-475.
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175. 2015 Anumol T, Dagnino S, Vandervort DR, **Snyder SA**. *Transformation of Polyfluorinated Compounds in Water by Advanced Oxidation Processes*. Chemosphere. 144:1780-1787.
174. 2015 Mehinto AC, Jia A, **Snyder SA**, Jayasingh BS, Denslow ND, Crago J, Schlenk D, Menzie C, Westerheide SD, Leusch FDL, Maruya KA. *Interlaboratory comparison of in vitro bioassays for screening of endocrine disrupting chemicals in recycled water*. Water Research. 83:303-309
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- Science: Water Research & Technology. 1(5):632-645
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166. 2015 Anumol T, Clarke BO, Merel A, **Snyder SA**. *Effectiveness of Point-of-Use Devices for Attenuation of Trace Organic Compounds in Water*. Journal of the American Water Works Association. 107(9): E474-E485.
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161. 2015 Anumol T and **Snyder SA**. *Rapid Analysis of Trace Organic Compounds in Water by Automated Online Solid-Phase Extraction Coupled to Liquid Chromatography-Tandem Mass Spectrometry*. Talanta. 132:77-86.
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4. 1999 **Snyder SA** and Snyder EM. *Bad Medicine*. *Resource* 6(5):7-8.
3. 1999 Khim JS, Villeneuve DL, Kannan K, Lee KT, **Snyder SA**, Koh CH, Giesy JP. *Akylphenols*,

- Polycyclic Aromatic Hydrocarbons (PAHs), and Organochlorines in Sediment from Lake Shihwa, Korea: Instrumental and Bioanalytical Characterization.* Environmental Toxicology and Chemistry 18(11):2424-2432.
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Awards and Accolades

- 2017 Agilent Thought Leader Award: In recognition of leadership in water sustainability, safety, and treatment. This award is part of an invitational program that promotes scientific advancement by contributing financial support, products, and expertise to influential scientists.
- 2016 Project of the Year Award, Arizona Water Reuse Association: “Potable Reuse for Inland Locations: Pilot Testing Results from a New Potable Reuse Treatment Scheme” (Snyder as U. Arizona PI)
- 2016 Quentin Mees Research Award, Arizona Water Association
- 2016 Third most cited author from top 100 most impactful publications in field of pharmaceuticals in the environment (Sci. Total Environ., 562:391-426 – Figure 1).
- 2015 Dr. Pankaj Parekh Research Innovation Award from the Water Research Foundation
- 2014 American Academy of Environment Engineers and Scientists: Board Certified Environmental Scientist (BCES) by Eminence
- 2013 LuxResearch Top Academics and Institutions in Water Research – Included among “30 Leading Water Researchers” (Figure 20)
- 2013 Best Student Presentation Award to Tarun Anumol (Snyder Research Group): National Environmental Monitoring Conference - San Antonio, Texas
- 2012 Best Paper Award – Journal of the American Water Works Association

Professional Affiliations

- | | |
|----------------|---|
| 2003 - Present | Water Environment Federation |
| 2000 – Present | American Water Works Association |
| 2000 – Present | International Ozone Association |
| 2000 – Present | International Water Association |
| 1997 – Present | American Association for the Advancement of Science |
| 1996 – Present | Sigma Xi |
| 1995 – Present | Society of Environmental Toxicology and Chemistry |
| 1991 – Present | American Chemical Society |

Students Mentored

- | | |
|--------------|---|
| 2015-Current | Byron Hempel – University of Arizona – Currently enrolled in Ph.D. Program |
| 2015-Current | Israel Lopez – University of Arizona – Currently enrolled in Ph.D. program |
| 2014-Current | Mauricius Marques dos Santos – University of Arizona – Currently enrolled in Ph.D. program |
| 2014-Current | Weikang Ji – University of Arizona – Currently enrolled in M.Sc. program |
| 2014-Current | Kevin Daniels – University of Arizona – Currently enrolled in Ph.D. program |
| 2013-Current | Norma Villagomez-Marquez – University of Arizona - Currently enrolled in M.Sc. program |

2013-Current	Mojtaba Azadi – University of Arizona – Current enrolled in M.Sc. program
2013-Current	Sheena Young – University of Arizona – Currently enrolled in Ph.D. program
2013-Current	Darcy Vandervort – University of Arizona – Currently enrolled in M.Sc. program
2012-Current	Minkyu Park – University of Arizona – Currently enrolled in Ph.D. program
2012- 2014	Xuhao Nie – University of Arizona – Earned M.Sc.
2012-2014	Jo-Anne Barcellano – University of Arizona – Earned M.Sc.
2011-Current	Shimin Wu – University of Arizona – Current enrolled in Ph.D. program.
2010-2014	Tarun Anumol - University of Arizona – Ph.D. awarded in 2014.
2011-2013	Massimiliano Sgroi - University of Catania (Italy) – Ph.D. awarded in 2013 (available at http://archivia.unict.it/handle/10761/1498).
2010-2013	Samendra Serchan – University of Arizona – Ph.D. awarded in 2013.
2010	Sujanie Gamage – University of Nevada, Las Vegas – Currently enrolled in Ph.D. program in Vern Hodge’s research group.
2010	Dongxu Yan – University of Arizona –Ph.D. awarded and currently employed by Lane Environmental.
2009	Ludwig Kim – Texas A&M University –Ph.D. awarded and currently employed by GS Construction (South Korea).
2009-2010	Robert Young – Colorado State University – Currently enrolled in Ph.D. program in Thomas Borch’s research group.
2008-2009	Sarper Sarp – Gwangju Institute of Science & Technology, Korea – Ph.D. awarded and currently employed by GS Construction (South Korea).
2008-2009	Aleks Pisarenko – Miami University of Ohio –Ph.D. awarded and currently working with Trussell Technologies, California.
2008-2010	Susanna Blunt – University of Nevada, Las Vegas & Desert Research Institute – M.S. awarded.
2008-2009	Deborah Dryer – University of Washington - Ph.D. awarded and currently working at Hazen and Sawyer, New York.
2007-2008	Seungyun Baik – State University of New York, Buffalo – Currently enrolled in Ph.D. program in Diana Aga’s research group.
2006-2008	Mei Xin – University of Nevada, Reno – Ph.D. granted in 2008; currently employed by Norit Carbon, Dallas Texas.
2005-2010	Christy Meza – University of Nevada, Las Vegas – Undergraduate research intern, B.S. awarded in 2008.
2005-2009	Elaine Go – University of Nevada, Las Vegas – Undergraduate research intern, B.S. expected in 2009.
2004-2006	Fernando Rosario-Ortiz – University of California, Los Angeles – D.Env. granted in 2006..
2003-2006	Yixin Wei – University of Nevada, Las Vegas – Ph.D. granted in 2006.
2000-2004	Elisa Nemr – University of Nevada, Las Vegas – M.S. granted in 2004.

Post-Doctoral Researchers Mentored

2014-2016	Christiane Hoppe-Jones – Ph.D. from Colorado School of Mines with Jorg Drewes.
2013-2014	Jian Gong – Ph.D. from Guangzhou University, China.
2013-2014	Sonia Dagnino – Ph.D. from Montpellier, France with Helene Fenet & Patrick Balaguer.
2012-2016	Hye-Weon Yu – Ph.D. from Gwangju Institute of Science & Technology with In S. Kim.

- 2011-2015 | **Ai Jia** – Ph.D. from Peking University, China, with Professor Jianying Hu.
- 2010-2012 | **Bradley Clarke** – Ph.D. from RMIT, Australia, with Professor Judy Blackbeard.
- 2010-2014 | **Sylvain Merel** – Ph.D. from University of Rennes, France, with Professor Oliver Thomas
- 2009-2010 | **Aleks Pisarenko** – Ph.D. from Miami University of Ohio with Professor Gilbert Gordon.
- 2008-2010 | **Daniel Gerrity** – Ph.D. from Arizona State University with Professors John Crittenden and Morteza Abbaszadegan as advisors.
- 2008-2010 | **Yongui Tan** – Ph.D. from Rensselaer Polytechnic Institute with Professor James Kilduff as primary advisor.
- 2007-2009 | **Benjamin Stanford** – Ph.D. from University of North Carolina, Chapel Hill with Professor Howard Weinberg as primary advisor. Currently employed as Director of R&D, Hazen and Sawyer, NYC.
- 2007-2009 | **Mark Benotti** – Ph.D. from State University of New York, Stony Brook with Professor Bruce Brownawell as primary advisor. Currently employed as private consultant.
- 2006-2008 | **Fernando Rosario-Ortiz** – D.Env. from University of California, Los Angeles with Professor Mel Suffet as primary advisor. Currently employed as Assistant Professor at the University of Colorado, Boulder.
- 2005-2007 | **Hongxia Lei** – Ph.D. from University of Illinois with Professor Benito J. Mariñas as primary advisor. Currently employed by Golden State Water, California.