

Appendix B

2013 WRRC Extension, Education, and Outreach and Engagement Efforts

Section 1-Grants Received	
	Sponsor
Arizona Project WET, Water Education in Pinal County	Abbott Fund/Foundation
Arizona Project WET, Teacher STEM Academy	City of Chandler, Arizona
Arizona Project WET, Tucson Water Education	City of Tucson, Arizona
Arizona Project WET, Arizona Water Festival Program, Green Valley and Sahuarita, Arizona	Freeport-McMoRan Cooper and Gold Foundation
Arizona Project WET, STEM Education for Teachers	Intel's Community Grant Program
Incorporating Climate Information and Stakeholder Engagement in Groundwater Resources Planning and Management	National Oceanic and Atmospheric Administration
Arizona Project WET, Water Investigator's Program, Phoenix Arizona	The Nature Conservancy
Arizona Project WET, Water Investigator's Program, Phoenix Arizona	Nina Mason Pulliam Charitable Trust
Connecting Environmental Water Needs to Arizona Water Planning	Nina Mason Pulliam Charitable Trust
The Critical Challenge of Antibiotic Resistance: Are Wastewater Treatment Plants a Concern?	Research Corporation for Science Advancement
Arizona Project WET, STEM Education for Teachers	Salt River Project
Water Resources Management Program	Town of Clarkdale
Antibiotics in Agroecosystems: State of the Science	United States Department of Agriculture
104(b), FY2011 Annual Application under Section 104 of the Water Resources Act of 1984, as amended, dated 01/11/2011	United States Geological Survey
Connecting Water Conservation and Environmental Stewardship in the Colorado River Basin	Walton Family Foundation
Implementation of Innovative Approaches to Securing Water for the Environment	Walton Family Foundation

Section 2-104b Water Research Grants

Title	University	Amount
2012		
Fate of Emerging Nanoparticle Contaminants during Aquifer Recharge with Treated Wastewater	UA	\$10,450
Does Increasing Solids Retention Time in the Wastewater Treatment Process Affect the Persistence of Antibiotic Resistance Genes?	UA	\$7,300
Toxicity of Emerging Contaminants in an Effluent Dependent Stream: The role of suspended solids and sediments	UA	\$10,000
2013		
Discrimination-Inference to Reduce Expected Cost Technique (DIRECT): A new framework for water management and stakeholder negotiation	UA	\$9,024
Do Simple Carbon Additions Reduce Resistance to Antibiotics in Environmental Bacteria?	UA	\$10,000
Sequential Advanced Oxidation and Soil-aquifer Treatment for Management of Trace Organics in Treated Wastewater	UA	\$10,000
Extraction Methods for Engineered Nanoparticles from Aqueous Environmental Samples	ASU	\$10,000
2014		
Improving Integrated Surface Water and Groundwater Management in the United States: Case studies of innovative groundwater governance approaches	UA	\$7,500
Development of Antibiotic Resistance During Wastewater Treatment	UA	\$7,500

Section 3-WRRC Media Appearances

Feb. 13, 2013	UANewsBlog ("New Book Explores Water Management Solutions Across International Borders")	http://uanews.org/blog/new-book-explores-water-management-solutions-across-international-borders
Feb. 26, 2013	Arizona Public Media/Arizona Illustrated (Sharon B. Megdal interview with Jane Poynter)	http://playpbs.azpm.org/video/2339108900/
Feb. 26, 2013	UANews ("UA to Host Water Security Experts at Annual Conference") (Story also picked up in Feb. 28 issue of Brown Caldwell Water News)	http://uanews.org/story/ua-to-host-water-security-experts-at-annual-conference
Feb. 26, 2013	Arizona Public Media ("Summit to Tackle Water Security")	https://originals.azpm.org/p/azill-science/2013/2/26/22784-summit-to-tackle-water-security/
Feb. 28, 2013	Tucson Weekly ("Protecting a Valuable Resource")	http://www.tucsonweekly.com/tucson/city-week/Content?oid=3654133
Mar. 7, 2013	KJZZ Public Radio ("Efforts Underway to Prevent Terrorist Attacks on Arizona Water Supply")	http://www.kjzz.org/content/1303/efforts-underway-prevent-terrorist-attacks-arizona-water-supply
Mar. 9, 2013	Arizona Public Media- Arizona Week ("AZ Week: Water Supply, Demand Assessed")	https://originals.azpm.org/s/14131-az-week-water-supply-demand-assessed/
Mar. 11, 2013	Know99Television ("Orangedale Junior High Water Audit")	http://www.youtube.com/watch?v=Yl6e1KFhY3I&feature=youtu.be
Mar. 28, 2013	UANewsBlog ("UA Water Experts Speak at United Nations Event")	http://uanews.org/blog/ua-water-experts-speak-united-nations-event
Apr. 17, 2013	ArizonaDailyStar, "Blogging the Desert" ("UA Researcher on the Colorado: If we don't take action now, we will have failed")	http://azstarnet.com/news/blogs/desertblog/ua-researcher-on-the-colorado-if-we-don-t-take/article_43f878fe-a770-11e2-a3c0-0019bb2963f4.html
Apr. 22, 2013	American Rainwater Catchment Systems Association ("WRRC Releases 2013 Arroyo: Contaminants of Emerging Concern in Water")	http://www.arcsa.org/content.asp?pl=79&sl=274&contentid=274
May 6, 2013	UANewsBlog ("UA's Megdal Elected President of National Institute")	http://uanews.org/blog/uas-megdal-elected-president-national-institute
May 13, 2013	UANewsBlog ("Conserveto Enhance Grants Support Urban Habitat Improvements")	http://uanews.org/blog/conserveto-enhance-grants-support-urban-habitat-improvements
May 13, 2013	ArizonaDailyStar ("Conflicting CAP Stance on 2 Projects")	http://azstarnet.com/news/science/environment/conflicting-cap-stance-on-projects/article_af1882af-7572-5820-ae32-59b6962b2627.html

May 14, 2013	Know99Television("OrangedaleElementary visits the Hassayampa River for Project WET")	http://www.youtube.com/watch?v=DwG9rSEggY0&feature=youtu.be
May 15, 2013	TheWaterReport,"WaterBriefs:Groundwater Survey"onWRRRCGroundwaterGovernance Report	
May 22, 2013	Arizona Public Media/Arizona Illustrated, TonyPaniagua("DwindlingWaterwaysDraw Scientists")	https://originals.azpm.org/p/azill-featured/2013/5/22/24510-dwindling-waterways-draw-scientists/
May 23, 2013	Circle of Blue, Brett Walton ("Sequestration Takes a Big Cut from USGS Water Research Programs")	http://www.circleofblue.org/waternews/2013/world/sequester-takes-a-big-cut-from-usgs-water-research-programs/
May 23, 2013	UANews.org("UA Students Earn 2013 Udall Foundation Awards")	http://uanews.org/story/ua-students-earn-2013-udall-foundation-awards
May 30, 2013	Arizona Daily Star ("Water Expert Discusses Management Challenges")	http://azstarnet.com/news/local/east/guitar-flute-show-plus-talks-on-water-immigration/article_6f5c3a8d-3734-5f17-9ba5-64ff92565161.html
Jun. 7, 2013	AZCentral.com ("Audubon Arizona Seeks Public Input in Water Conservation Discussion")	http://archive.azcentral.com/video/2467547091001
Jul. 16, 2013	City of Tucson ("Project WET") online video	http://www.youtube.com/watch?v=7iePT5fv214&list=PLQC0W-m5zhu2JzwWG4ara3PfNUkddsi40&index=1
Jul. 16, 2013	Tucson News 12 ("Project WET")	http://www.youtube.com/watch?v=7iePT5fv214
Aug. 16, 2013	KJZZ, Steve Goldstein ("The Future For Agricultural Water Use and Water Delivery in Arizona")	http://kjzz.org/content/4684/future-agricultural-water-use-and-water-delivery-arizona
Aug. 29, 2013	Arizona Public Media, Thomas Casey ("Betsy Wilkening")	https://www.azpm.org/s/15731-betsy-wilkening/
Aug. 30, 2013	Arizona Jewish Post, Sharon Megdal ("To Israel and Back: University of Arizona-Israel connections")	http://azjewishpost.com/2013/to-israel-and-back-university-of-arizona-israel-connections/
Sep. 5, 2013	UANews.org, Jessica Schlievert ("UA Employee Explores the Arctic with National Geographic" featuring Betsy Wilkening)	http://uaatwork.arizona.edu/lqp/ua-employee-explores-arctic-national-geographic
Sep. 22, 2013	Arizona Daily Wildcat, Gabrielle Fernety ("UA Employee Among 14 Teachers Chosen to Explore Arctic" featuring Betsy Wilkening)	http://www.wildcat.arizona.edu/article/2013/09/ua-employee-among-14-teachers-chosen-to-explore-arctic
Sep. 23, 2013	Flagstaff Business News "Fourth-Graders to Get WET-Wise"	http://www.flagstaffbusinessnews.com/fourth-graders-to-get-wet-wise/

Sep. 26, 2013	Science Daily ("Antibiotic Resistance in Agricultural Environments: A call to action")	http://www.sciencedaily.com/releases/2013/09/130926142926.htm
Sep. 30, 2013	Arizona Public Media/Arizona Illustrated Nature, Tony Paniagua ("Water Future Looks Gloomy for Arizona, Surrounding Region")	https://ondemand.azpm.org/videoshorts/watch/2013/9/30/27267-water-future-looks-gloomy-for-arizona-surrounding-region/
Oct. 15, 2013	Arizona Daily Wildcat, Mark Armao ("K-12 Students Test the Waters with Arizona Project WET")	http://www.wildcat.arizona.edu/article/2013/10/ua-program-aims-to-educate-k-12-students-about-water-efficiency
2013	The Nature Conservancy 2013 Annual Report ("Expanding the Face of Conservation," page 10 featured Arizona Project WET)	http://www.nature.org/ourinitiatives/regions/northamerica/unitedstates/arizona/arizona-2013-annual-report.pdf

Section 4-WRRC Brown Bag Seminars		
Jan. 31, 2013	Pablo Garcia-Chevesich, Researcher at the Forest Institute of Chile	Land Reclamation on Easter Island
Feb. 8, 2013	Lisa M. Beyer, RLA, Landscape Architect at AECOM Water in San Francisco, On-site consultant to the San Francisco Public Utilities Commission	Rethinking Water Infrastructure: Philadelphia and San Francisco's approaches to implementing green stormwater infrastructure programs
Feb. 20, 2013	Jeff Lukas, Senior Research Associate, Western Water Assessment, University of Colorado, Boulder, CO	Paleohydrology of the Lower Colorado River Basin and Implications for System Risk
Feb. 27, 2013	Professor Nir Becker, Department of Economics and Management, Tel-Hai College, University of Haifa, Israel	Rivers Restoration in Israel: A sustainable economic approach to measure non-market values in a trans-boundary setting
Mar. 8, 2013	David B. Brooks, Natural Resource Economist, International Development Research Centre, Canada (retired)	An Agreement to Share Water Between Israelis and Palestinians: The FoEME (Friends of the Earth Middle East)
Mar. 20, 2013	Ruth Valencia, Principal Scientist, Biological & Cultural Resource Services and Steve Westwood, Water Rights Analyst, Salt River Project	An Unexpected Alliance: A conversation with Salt River Project about collaborative efforts to protect habitat and surface water flows on the Lower San Pedro River
Apr. 19, 2013	Fernando B. Molina, Public Information Officer; Sandy Elder, Deputy Director, Tucson Water	Tucson Water IBM Smarter Cities Challenge Grant

Apr. 24, 2013	Dave D. White, Co-Director, Decision Center for a Desert City, Senior Sustainability Scientist, Global Institute of Sustainability, Arizona State University	Linking Knowledge and Action for Water Sustainability and Urban Climate Adaptation: Research update from the ASU decision center for a desert city
Apr. 26, 2013	Jamie McEvoy, Ph.D. Candidate, School of Geography and Development, University of Arizona	Is Desalination the Solution to Water Security? The promise and perils of a technological fix to the water crisis in Baja California and Sur, Mexico.
Aug. 9, 2013	Professor Amit Gross, visiting scientist from Ben-Gurion University of the Negev, Israel	Scarce Water Resources and Development of Appropriate Decentralized Technologies for Sustainable Water Supply in the Negev Desert
Sep. 12, 2013	Nathan Bracken, Legal Counsel for the Western States Water Council (WSWC)	Western Water Challenges and the Role of Water Transfers
Sep. 27, 2013	Shaul Sorek, visiting scientist from Ben-Gurion University of the Negev, Israel	The Reason for Unreasonableness in Groundwater Quality Management
Oct. 10, 2013	Benjamin Ruddell, Assistant Professor, Arizona State University	Water Resource Impacts Embedded in the Western U.S. Electrical Energy Trade (Current Patterns and Adaptation to Future Drought)
Nov. 6, 2013	Katie Meehan, Assistant Professor, Department of Geography, University of Oregon	Downspout Politics, Upstream Conflict: Contested legal geographies of rainwater harvesting in the U.S.
Nov. 8, 2013	Christa McJunkin, Salt River Project Senior Water Resource Analyst and Jason Hauter, Akin, Gump, Strauss, Hauer & Feld LLP	Salt River Project & Gila River Indian Community: Gila River water storage and water planning for the community and Arizona
Dec. 9, 2013	Ron Elkins, Wetlands Process Control Specialist for City of Phoenix Tres Rios Flow Regulating Wetlands	Tres Rios- Wetland Ecology in an Arid Environment

Section 5-WRRC Sponsored Events

Identification	Affiliation	Date	Title	
Workshop	Dr. Ayoup Ghair Royal Scientific Society of Jordan	Mar. 4	Grant-writing to Support Gray Water Research with Scientists in Jordan	
Webinar	RSPN community viewing of the Forester University webinar	Oct. 1	Rainwater Harvesting and Wastewater Reuse at the Community Scale	
Roundtable	Commissioners Drusina and Salmon International Boundary and Water Commission /CILA	Nov. 15	UA faculty and federal agency personnel to discuss ideas for generating additional binational research on Arizona's border with Mexico	
WRRC-WSP Co-Sponsored Events				
Lecture	Gregory Hobbs, Colorado Supreme Court Justice	Feb. 5	WSP Distinguished Speaker Series - Living the Four Corners: Honoring our Water Short Character - Preserve, Conserve, Sustain and Inspire	WSP, College of Law, WRRC
Lecture	Patricia Mulroy, General Manager, Southern Nevada Water Authority	Feb. 28	WSP Distinguished Speaker Series - Las Vegas - Navigating the Perfect Water Resources Storm	College of Law
Roundtable	Patricia Mulroy, General Manager, Southern Nevada Water Authority	Feb. 28	Water Utilities Roundtable	College of Law
Lecture	Mark Lambert, CEO, IDE Americas	Apr. 9	WSP Distinguished Speaker Series - Innovations in Desalination Technology and Financing	College of Engineering
Roundtable	Mark Lambert, CEO, IDE Americas	Apr. 9	Industry Roundtable	College of Engineering
Film Screening and panel discussion	Ardeth Barnhart, Program Director UA Renewable Energy Network	Nov. 8	Seeking Water from the Sun: A Quest for Clean Water – A Solar Powered Solution – Where are We Now	Arizona Public Media, UA Alumni Association, American Indian Studies Program, Institute for the Environment, Renewable Energy Network, College of Engineering, US Bureau of Reclamation

2013 Collegiate & Campus Showcase				
Workshop		Nov. 12	Southwest Water Technology Innovation Cluster: Vision, goals, and business plan development	WSP, WRRRC, College of Engineering, College of Science, Tech Launch Arizona
Lecture	Alon Tal, Professor, Ben Gurion University, Israel	Nov. 13	WSP Distinguished Speaker Series- Triumph or Tragedy? A brief history of water management in Israel	Center for Middle Eastern Studies, Udall Center for Studies in Public Policy, The Arizona Center for Judaic Studies
Roundtable	Alon Tal, Professor, Ben Gurion University, Israel	Nov. 13	Water Sustainability Roundtable	Center for Middle Eastern Studies, Udall Center for Studies in Public Policy, The Arizona Center for Judaic Studies
Roundtable	Raanan Adin, CEO Adin Holdings	Nov. 22	Water Technology Roundtable	
Other Co-Sponsored Events				
Udall Special Lecture	David Livingstone, Director, Renewable Resources and Environment, Northwest Territories (retired)	Feb. 2	Water Stewardship in the Northwest Territories, Canada: Partnerships, knowledge and governance	Udall Center for Studies in Public Policy
Annual Chocolate Fest		Feb. 15	WRRRC Chocolate Fest, Book Launch, Photo Contest Winners	Arizona Center for Judaic Studies, Center for Middle Eastern Studies, Udall Center for Studies in Public Policy, and Water Sustainability Program
Festival	Tucson Arts Brigade	Apr. 21	The Water Festival: Synergy of art, science, and community	Tucson Arts Brigade, multiple community co-sponsors
Festival and Parade	Tucson's 19th Annual Earth Day Festival and Parade	Apr. 21	Green Planet, Green Future	Multiple community co-sponsors
Workshop	UA Campus Ag Center, Karsten Turfgrass Center (Tucson, AZ)	May. 25	Protecting Our Rivers	Audubon's Western Rivers Action Network

Workshop	Nina Mason Pulliam Rio Salado Audubon Center in Phoenix, AZ	Jun. 8	Protecting Our Rivers	Audubon's Western Rivers Action Network, Audubon Arizona, Phoenix-area Audubon chapters
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Section 6-Publications (by first author)

- Ajibode, O.M., C. Rock, K. Bright, J.E.T. McLain, C.P. Gerba, I.L. Pepper, Influence of residence time of reclaimed water within distribution systems on water quality, *Journal of Water Reuse and Desalination* 3:185-196, 2013; DOI: 10.2166/wrd.2013.088.
- Al-Mashaqbeh, O., A.M. Ghair and S.B. Megdal, Performance of Grey Water Pilot Plant Using a Multi-Layer Filter of Natural Materials for Agricultural Purposes in the Jordan Valley, *CLEAN - Soil, Air, Water*, September 17, 2013.
- Alvarez, J.L. and S.B. Megdal, Achieving water policy objectives through water pricing: A case study of Arizona's decentralized approach to water provision, in *Shared Borders, Shared Waters: Israeli-Palestinian and Colorado River Basin Water Challenges*, pp 105-116, edited by Sharon B. Megdal, Robert G. Varady, and Susanna Eden, CRC Press/Taylor & Francis Group, in coop. with UNESCO-IHE, 2013.
- Callegary, J. S.B. Megdal, C.A. Scott, and P.L. Vandervoet, Arizona/Sonora Section of the Transboundary Aquifer Assessment Program, pp 5-18, in *Alley, W.M., ed., Five-year interim report of the United States-Mexico Transboundary Aquifer Assessment Program: 2007-2012: U.S. Geological Survey Open- File Report 2013-1059*, 31 p. <http://pubs.usgs.gov/of/2013/1059/>.
- Cusimano, J., J. McLain, C. Rock, S. Eden, Agricultural Use of Recycled Water for Crop Production in Arizona, Arizona Cooperative Extension.
- Eden, S., J. Moxley and J. Cleveland, Desert Water Harvesting Initiative: Rainwater and Stormwater Harvesting, Green Infrastructure and Low Impact Development for Improved Sustainability and Adaptation to Climate Change, *Kachina News*, pp 22-23, Arizona Water Association, June 4, 2013.
- Gallo, E.L., P.D. Brooks, K.A. Lohse, J.E.T. McLain, Temporal patterns and controls on runoff magnitude and solution chemistry of urban catchments in the semiarid southwestern United States, *Hydrological Processes*, 27: 995-1110, 2013; DOI: 10.1002/hyp.9199.
- Gerlak, A. K., S. B. Megdal, R. G. Varady and H. Richards, Groundwater Governance in the U.S.: Summary of Initial Survey Results, Water Resources Research Center, May 2013. <http://wrrc.arizona.edu/groundwater>.
- Kabiri, L., A. Alum, C. Rock, J.E.T. McLain, M. Abbaszadegan, Isolation of Bacteroides from fish and human fecal samples for identification of unique molecular markers, *Canadian Journal of Microbiology*, 59: 771-777 2013; DOI: 10.1139/cjm-2013-0518.
- Leal-Bautistia, R.M., M. Lenczewski, A. Gahala, J.E.T. McLain, Assessing fecal contamination in groundwater from the Tulum Region, Quintana Roo, Mexico, *Journal of Environmental Protection*, 4: 1272-1279, 2013; DOI: 10.4236/jcp.2013.411148.
- McLain, J.E.T., "Dinner for six" at the Annual Meetings. *Crop, Soils, Agronomy News*, 58(8): 38, 2013.
- McLain, J.E.T., Integrity and ethics: meeting the career challenges that lie ahead, *Crop, Soils, Agronomy News*, 58(12): 34-35.
- Megdal, S.B., On Defining and Achieving Water Security, Arizona Water Resource, Water Resources Research Center, Spring 2013.
- Megdal, S.B., Written from Sea, Arizona Water Resource, Water Resources Research Center, Summer 2013.
- Megdal, S.B., Shortage Projections May Inspire Changes in Thinking, Arizona Water Resource, Water Resources Research Center, Fall 2013.

- Megdal, S.B., The Colorado River Basin Water Supply and Demand Study: A Call to Action, Arizona Water Resource, Water Resources Research Center, Winter 2013.
- Megdal, S.B. and J. Nadeau, Water Planning for Growing Southwestern Communities, in Design with the Desert: Conservation and Sustainable Development, edited by Richard Malloy, J. Brock, A. Floyd, M. Livingston and R.H. Webb, CRC Press/Taylor & Francis Group, London, UK, 2013.
- Megdal, S.B., R.G. Varady, and S. Eden, Eds., Shared Borders, Shared Waters: Israeli-Palestinian and Colorado River Basin Water Challenges, CRC Press/Taylor & Francis Group, in coop. with UNESCO- IHE, 2013, 320pp. Preface by Sharon B. Megdal, Robert G. Varady and Susanna Eden, pp.xi-xiii. Introduction by Susanna Eden, Robert G. Varady, Sharon B. Megdal and Jenna Cleveland, pp.1-4. Concluding insights by Robert G. Varady, Susanna Eden and Sharon B. Megdal, pp. 275-276.
- Mitchell, K.L.Y., National Climate Assessment Foresees Alarming Impact on Southwest, Arizona Water Resource, Water Resources Research Center, Winter 2013.
- Lacroix, K.M. and B.C. Xiu, White Paper: Calculating and Considering Environmental Water Demand for Arizona, 2013, https://wrrc.arizona.edu/sites/wrrc.arizona.edu/files/White%20Paper_Final.pdf.
- Radonic, L., Drought Along the Rio Grande Highlights Water Management Complexities, Feature, Arizona Water Resource, Summer 2013.
- Raghav, M., S. Eden, K. Mitchell and B. Witte, Contaminants of Emerging Concern in Water, Arroyo, Water Resources Research Center, 2013, 12pp.
- Schwartz, K., C. Rupprecht, M.A. Stoll, H. Thomas-Hilburn, T. Krecek-Lynch, A. Prescott and S. Ramaswamy, Water Scene Investigation (WSI) Program, Arizona Cooperative Extension, University of Arizona, June 2013, <http://extension.arizona.edu/sites/extension.arizona.edu/files/pubs/az1594.pdf>.
- Schwartz, K. and N. Rosenleaf Ritter, Kids Learn, Communities Benefit, IMPACT Vol. 15 No. 4, July 2013, http://www.projectwet.org/sites/default/files/content/press/awra_swap.pdf.
- Vandervoet, P.L., S.B. Megdal, C.A. Scott, Los acuíferos transfronterizos Santa Cruz y San Pedro de Arizona y Sonora: Estado actual y creación de bases de datos (The Santa Cruz and San Pedro transboundary aquifers of Arizona and Sonora: Current status and database creation) in Fortaleciendo el diálogo social: El desarrollo humano transfronterizo en la región Sonora-Arizona (Strengthening social dialog: Transboundary human development in the Sonora-Arizona region) edited by G. Cordova, J. Dutram, B. Lara, and J. Rodriguez, Universidad de Sonora, Hermosillo, Sonora, MX, 2013.
- Varady, R.G., F. van Weert, S.B. Megdal, A. Gerlak, C.A. Iskandar, and L. House-Peters, Thematic Paper No. 5: Groundwater Policy and Governance, [update], with major editing by Emily Dellinger McGovern, GEF-FAO Groundwater Governance Project A Global Framework for Country Action, Rome (June 2012): Global Environment Facility-FAO, 2013, 47pp. http://www.groundwatergovernance.org/fileadmin/user_upload/groundwatergovernance/docs/Thematic_papers/GWG_ThematicPaper5_APr2013_web.pdf.
- Wall, G.W., J.E.T. McLain, B.A. Kimball, J.W. White, M.J. Ottman, R.L. Garcia, Infrared warming affects intrarow soil carbon dioxide efflux during vegetative growth of spring wheat, *Agronomy Journal*, 105: 607-618, 2013; DOI: 10.2134/agronj2012.0356.
- Witte, B., New Members Share Thoughts and Goals for CAWCDB Board, Arizona Water Resource, Water Resources Research Center, Winter 2013.

Section 7-Presentations (by chronological order)

January 9, 2013, Rupprecht, Candice, The Tucson C2E Program, Pima County Local Drought Impact Group, Tucson, AZ.

January 10, 2013, Megdal, Sharon B., Providing Context for Transboundary Water Management for the Colorado River and Santa Cruz River Systems, Workshop on Transboundary Water Resources Governance and Riparian Areas: Theories, Methods and Applications, University of Arizona, Tucson, AZ.

January 16, 2013, Megdal, Sharon B., Formulating and Conducting Research Projects Relevant to Real-World Problem Solving, Arizona Water Association Research Program, Phoenix, AZ.

January 16, 2013, Thomas-Hilburn, Holly, Water Investigations Program, 2012-2013 Teacher Cohort Training, Phoenix, AZ.

January 16, 2013, McLain, Jean E., University of Arizona Panel Member, Arizona Water Forum, Phoenix, AZ.

January 26, 2013, Megdal, Sharon B., (with Robert Varady) Israeli Water Management and Policy Comparisons with Arizona and Consideration of Some Outstanding Challenges, Secular Humanist Jewish Circle, Tucson, AZ.

January 30, 2013, McLain, Jean E., How to Construct an Effective Presentation: It's Not As Hard As You Think!, Guest Lecture, SWES696a (Topics in Soil, Water and Environmental Science), University of Arizona, Tucson, AZ.

January 30-February 1, 2013, Mott Lacroix, Kelly and Brittany C. Xiu., Presentation and visioning session, 6th Annual Little Colorado River Winter Watershed Conference, Show Low, AZ.

February 8, 2013, Mott Lacroix, Kelly and Aaron Lien, WRRRC Environmental Programs. Arizona Water Policy Class, Tucson, AZ.

February 13, 2013, Megdal, Sharon B., Arizona Water Resources Research Center's Information Transfer and Outreach Programs, Annual Meeting of the National Institutes for Water Resources, Washington, DC.

February 13, 2013, Lien, Aaron and Kelly Mott Lacroix, Science Coordination Workshop, Safford, AZ.

February 14, 2013, Megdal, Sharon B., Providing Context for Transboundary Water Management for the Colorado River and Santa Cruz River Systems, Guest Lecture, RNR 440/540, University of Arizona, Tucson, AZ

February 20, 2013, Megdal, Sharon B., Transboundary Wastewater Issues in the U.S. and Middle East, Guest Lecture, CPH696R, University of Arizona, Tucson, AZ.

March 2013, Megdal, Sharon B., Interview and feature in Tucson Water Bill Insert, "Focus on UA-Utility Partnership," distributed to all Tucson Water customers through the bill insert, Tucson, AZ.

March 2, 2014, Xiu, Brittany C., WRRRC Programs Presentation, WISE Expanding Your Horizons Conference, Tucson, AZ.

March 4, 2013, Lien, Arien, EnWaP and various approaches to landscapes scale planning and conservation, Winkelman Natural Resources Conservation District Board, AZ.

March 5, 2013, Megdal, Sharon B., Conference Convener and Moderator, Water Security from the Ground Up, 2013 Annual Conference of the Water Resources Research Center, University of Arizona, Tucson, AZ.

March 5, 2013, Megdal, Sharon B., Conference Host and Moderator, Water Security from the Ground Up, 2013 Annual Conference of the Water Resources Research Center, University of Arizona, Tucson, AZ.

March 6, 2013, Rupprecht, Candice and Aaron Lien, Conserve to Enhance, Colorado River Delta Water Trust.

March 13, 2013, Xiu, Brittany C., Arizona on WRRRC projects and outreach in Arizona, Master Watershed Steward classes at Round Valley High School, Eagar, AZ.

March 15, 2013, Megdal, Sharon B., Arizona Water 101: A Look at Arizona Water Issues, Staff of Arizona Congressional Offices, Phoenix, AZ.

March 20, 2013, Megdal, Sharon B., Presentation, Groundwater Governance in a Federal Framework: Results of a Survey of the 50 States of the USA, (Andrea Gerlak and Robert Varady, coauthors), Fifth Regional Consultation, GEF Groundwater Governance Project, The Hague, The Netherlands. (Meeting held March 19-21, 2013.)

March 22, 2013, Megdal, Sharon B., Discussion Leader, The International Celebration of World Water Day 2013 on Water Cooperation, Breakout Session 3, Water Cooperation Helps Preserve Water Resources and Protect the Environment, The Hague, The Netherlands.

March 22, 2013, Xiu, Brittany C., WRRRC Programs Presentation, Environmental Science Careers Class, Tucson, AZ.

March 26-27, 2013, McLain, Jean E., Roundtable Participant, Research Frontiers in Water Reuse: Removing Development Obstacles and Stimulating Innovation, sponsored by Arizona State University Global Institute of Sustainability.

March 27-28, 2013, Megdal, Sharon B., Invited Participant, First Meeting of the OECD Water Governance Initiative, Organisation for Economic Co-operation and Development, Paris, France.

March 29, 2013, McLain, Jean E., Roundtable Participant, Sustainable Cities Workshop, sponsored by the University of Arizona College of Science and Biosphere 2.

April 4, 2013, Xiu, Brittany C. and Candice Rupprecht, Calculating and Considering Environmental Water Demands in Arizona/Conserveto Enhance: A tool for linking consumer water efficiency and riparian and urban waterway enhancements, Arizona Riparian Council Annual Meeting, Scottsdale, AZ.

April 9-12, 2013, Walston, Stefan E., Channah M. Rock, Jean E. McLain, Daniel Gerrity, and Leif Abrell, Does increasing solids retention time in the wastewater treatment process affect the persistence of antibiotic resistance genes? University of Arizona 2013 Earth Week Celebration, Tucson, AZ.

April 11, 2013, Eden, Susanna, GCASE - Groundwater Climate And Stakeholder Engagement, Incorporating Climate Information and Stakeholder Engagement in Groundwater Resources Planning and Management, GCASE Milestone Workshop, Nogales, AZ.

April 14, 2013, Eden, Susanna, Arizona Water Resources, Change is Happening, Green Valley, AZ.

April 15, 2013, McLain, Jean E., Guest Lecture, Public Health and Environmental Safety of Recycled Municipal Wastewater – Current Research, SOS326 Sustainable Ecosystems, Arizona State University, Phoenix, AZ.

April 15, 2013, Mott Lacroix, Kelly, Synthesis/discussions of the Day's Presentations. Santa Cruz River Researcher's Day, Tucson, AZ.

April 16, 2013, Rupprecht, Candice, Conserveto Enhance: A tool for linking consumer water efficiency and urban wash enhancement in Tucson, 5th Annual Santa Cruz River Research Days at the Sonoran Desert Museum, Tucson, AZ.

April 17, 2013, Mott Lacroix, Kelly and Brittany C. Xiu, Available EnWaP information for the San Pedro River, Upper San Pedro Partnership Technical Advisory Committee, Sierra Vista, AZ.

April 20, 2013, Mott, Kelly and Candice Rupprecht, Water 101: Understanding our Water Resources, Clarkdale Public Meeting, Clarkdale, AZ.

April 21, 2013, Megdal, Sharon B., Solutions to the Water Management Challenges of Arizona and Israel, Technology Pavilion at the Israel Festival, Tucson, AZ.

April 23, 2013, Megdal, Sharon B., Arizona-Israeli Collaborative Efforts to Address Water Management Challenges: A cross-disciplinary approach, Meeting of the Technical Advisory Committee to the United States-Israel Binational Agricultural Research and Development Fund, Tucson, AZ.

April 24, 2013, Megdal, Sharon B., Connecting Water Policy Considerations to Other Water Research and Analysis, Center for Environmentally Sustainable Mining, Technical Advisory Committee Meeting, Tucson, AZ.

April 25, 2013, Xiu, Brittany C., Desert Adaptation: Conserving water is not just for succulents and squirrels... Ventana Medical Systems, Oro Valley, AZ.

April 28, 2013, Megdal, Sharon B., Presentation and Panelist, Israel, JNF and Water Solutions, Summit with JNF, Las Vegas, NV.

April 30, 2013, Megdal, Sharon B., Panelist, Southern Arizona Water: Development, Growth and Sustainability, Real Estate and Allied Professions (REAP), Tucson, AZ.

May 1-3, 2013, Walston, Stefan E., Channah M. Rock, Jean E. McLain, Daniel Gerrity, and Lief Abrell, Does increasing solids retention time in the wastewater treatment process affect the persistence of antibiotic resistance genes? 86th Annual Arizona Water Conference, Glendale, AZ.

May 8, 2013, Mott Lacroix, Kelly, EnWaP, Drought and Arizona Rivers: Looking into the Past and Thinking About the Future, Pima County Local Impact Drought Group Meeting, Tucson, AZ.

May 15, 2013, McLain, Jean E., Is Antibiotic Resistance a Useful Tool for Tracking Sources of Contamination in Yucatan Groundwater?, American Geophysical Union Meeting of the Americas, Cancun, Mexico.

May 14-15, 2013, Megdal, Sharon B., Invited Expert Participant, GEF Transboundary Waters Assessment Programme, Assessment of Transboundary Aquifers and SIDS Groundwater Systems, Inception Meeting, UNESCO Programme office for Global Water Assessment, Perugia Italy.

May 14-17, 2013, McLain, Jean E., Melissa Lenczewski, Rosa M. Leal-Bautista, Can antibiotic resistance analysis be a useful tool for tracking population sources of contamination in Yucatan groundwater? American Geophysical Union Meeting of the Americas, Cancun, Mexico.

May 18 - 21, 2013, Brassill, Natalie, Channah M. Rock, Jean E. McLain, and Kurt Nolte, Assessment of Escherichia coli as an indicator of microbial quality of irrigation waters used for produce. American Society for Microbiology 113th Annual Conference, Denver, CO.

May 21, 2013, McLain, Jean E., Nate Allen, Lief Abrell, Assessing biological and chemical quality of harvested rainwater in Arizona: can in-line carbon filters decrease health risks?, Rainwater/Stormwater Professionals Network, WRRCSol Resnick Conference Room, Tucson, AZ.

May 21, 2013, Mott Lacroix, Kelly, EnWaP, Environmental Water Demands in the Sky Island Region and Beyond: The AZ Environmental Flow Needs Database, Learning to Live with the Heat: Adapting to a Changing Climate in the Sky Island Region Conference, May 21-22, Tucson, AZ.

May 23, 2013, Xiu, Brittany C. and Project Wet Students, Desert Adaptation: Conserving water is not just for succulents and squirrels... AND What's YOUR Water Footprint, Basis High School, Tucson, AZ.

May 24, 2013, Megdal, Sharon B., Keynote Speaker, Securing our Water Future: Challenges and Solutions, International Water Conference, Sias University, Zhengzhou, Henan Province, China.

May 25, 2013, Xiu, Brittany C., Water Challenges in the Colorado River Basin, Audubon Western Rivers Action Network, Tucson, AZ.

June 5, 2013, Megdal, Sharon B., Arizona Water Management Challenges and Solutions, Academy Village, Tucson, AZ.

June 8, 2013, Mott Lacroix, Kelly, Science on the Sonoita Plain, Environmental Flow Needs and Responses in the Cienega Creek Basin, Current Understanding and Research Gaps, Elgin, AZ.

June 8, 2013, Xiu, Brittany C., Water Challenges in the Colorado River Basin, News coverage about event available (Group holding workshops on Colorado River water supply: <http://www.azcentral.com/video/2467547091001>), Nina Masson Pullium Audubon Center (Phoenix, AZ), Western Rivers Action Network, 48, Audubon Arizona/WRAN, Phoenix, AZ.

June 10-13, 2013, Mott Lacroix, Kelly, What is water for the environment and what can we do about it? Calculating and Considering Environmental Water Demands, American Water Works Association, Annual Conference and Exposition, Denver, CO.

June 12, 2013, Megdal, Sharon B., Presentation and panelist, Sharing the River: The Colorado River Compact and Water Banking, ACE 2013, Annual Conference of the American Water Works Association, Denver, CO. Presentation posted in proceedings: <http://www.acumen-va-publish.com/awwaACE2013/contents.php?s=WED23>

June 13, 2013, Thomure, Tim M., C.M. Rock, Kevin Lansey, J.E. McLain, Approaches to maintain consistently high quality recycled water in storage and distribution systems, Webinar presented by the Water Reuse Foundation.

June 13, 2013, Mott Lacroix, Kelly, What is water for the environment and what can we do about it? Calculating and Considering Environmental Water Demands, American Water Works Association Annual Conference and Exposition, Denver, CO.

June 13, 2013, McLain, Jean E., Co-Presenter, Maintaining Recycled Water Quality in Storage and Distribution Systems, Water Reuse Foundation Webcast.

June 14, 2013, Megdal, Sharon B., Transboundary Aquifer Assessment Program Update: Santa Cruz and San Pedro Aquifers, Arizona-Mexico Commission, Environment and Water Committee, Scottsdale, AZ.

June 17, 2013, McLain, Jean E., Member of faculty delegation selected by the Office of Global Initiatives to meet with representatives from Universidad de las Américas Puebla (Mexico). Five University of Arizona faculty who perform research on water issues met with four representatives from the Universidad, to discuss future research initiatives, sharing of expertise, and cross-border collaborations.

June 21, 2013, Eden, Susanna and Eylon Shamir, Co-Presenters, Incorporating Climate Information and Stakeholder Engagement in Groundwater Resources Planning and Management, Santa Cruz Groundwater Users Advisory Council, Nogales, AZ.

June 25, 2013, McLain, Jean E. and Candice Rupprecht, Conserve to Enhance: a tool for linking water use efficiency and environmental enhancements. Climate Leadership Academy on Adaptive Water Resource Management and Infrastructure, Philadelphia, PA.

June 24-26, 2013, McLain, Jean E., Roundtable Participant and Representative, City of Tucson Delegation: Climate Leadership Academy, Climate Adaptation and Resilience, Institute for Sustainable Communities, Philadelphia, PA.

June 24-26, 2013, McLain, Jean E., Conserve to Enhance: A tool for linking consumer water efficiency and environmental enhancements, Climate Leadership Academy on Adaptive Water Resource Management & Infrastructure, Philadelphia, PA.

August 7, 2013. Mott Lacroix, Kelly, Groundwater Modeling, Clarkdale Public Meeting, Clarkdale, AZ.

August 8, 2013, Megdal, Sharon B., Expert Discussion Leader, Udall Foundation Scholars Orientation, Tucson, AZ.

August 15, 2013, Megdal, Sharon B., Radio Interview, The Future for Agricultural Water Use and Water Delivery in Arizona, KJZZ Radio, Phoenix, AZ.

August 17, 2013, Xiu, Brittany C., Water Challenges in the Colorado River Basin, Audubon Western Rivers Action Network, Prescott, AZ

August 21, 2013, Mott Lacroix, Kelly, Environmental Water Demands Database Webinar, Environmental Water Demands Webinar, web-based

August 28, 2013, Xiu, Brittany C., Conserve to Enhance, C2E, program, Panda Restaurant Group, Inc., Tucson, AZ.

August 29, 2013, Megdal, Sharon B., Panelist, Valuing Arizona's Water: The Real Costs & the Price You Pay, Arizona League of Cities and Towns, Oro Valley, AZ.

September 3, 2013, Megdal, Sharon B., Governance Asymmetries and Water Cooperation along the United States-Mexico Border, Workshop on Cooperation Across and Within Jurisdictions and Levels for Good Water Governance – Local to Global, Stockholm World Water Week, Stockholm, Sweden.

September 3, 2013, Xiu, Brittany C., Guest Lecture, SWES 195A, Careers in Environmental Science specifically discussing WRRRC's Environmental Program, The University of Arizona, Tucson AZ.

September 11, 2013, McLain, Jean E., Channah M. Rock, K. Nolte, Victoria Obergh, Development of BMPs for assessment of irrigation water quality following routine maintenance of unlined canals: an interim report. Yuma Grower's Association Training Session, Yuma, AZ.

September 17, 2013, Megdal, Sharon B., Guest Lecture, GEO302, Introduction to Sustainable Development, University of Arizona, Tucson, AZ.

September 18, 2013, McLain, Jean E., How to construct an effective presentation: it's not as hard as you think. University of Arizona SWES 696: Topics in Soil, Water and Environmental Science.

September 19, 2013, Xiu, Brittany C., C2E Water Use Dashboard: A Tool for Promoting Water Efficiency and Tracking Water Use, Arizona Hydrological Society 2013 Annual Symposium, Tucson, AZ.

September 20, 2013, Megdal, Sharon B., Water Management and Pricing: Challenges Associated with Increasing Water Scarcity, Water Utilities Association of Arizona, Phoenix, AZ.

September 20, 2013, Eden, Susanna, Stakeholder Engagement in Model Development Incorporating Climate Change Uncertainty, 2013 Arizona Hydrological Society Symposium (September 18-21) Tucson, AZ.

September 20, 2013, Rupprecht, Candice, and Brittany C. Xiu, C2E Water Use Dashboard, Arizona Hydrological Society's Annual Conference, Tucson, AZ.

September 21, 2013, Mott Lacroix, Kelly, Exploring Environmental Flow Needs and Responses in Arizona: The Environmental Water Demands Database. Tucson, AZ.

September 23, 2013, Megdal, Sharon B., Groundwater Management: A Policy Perspective, Annual Forum of the Groundwater Protection Council, Groundwater Protection: Reflecting progress and responding to the future, St. Louis, MO.

September 27, 2013, Megdal, Sharon B., Telephone Interview, 30-minute phone conversation with Doug McEachern of the Arizona Republic.

September 30, 2013, Megdal, Sharon B., Media Interview, Water Future Looks Gloomy for Arizona, Surrounding Region, NPR.

September 30, 2013, McLain, Jean E., Antibiotic resistance and recycled municipal wastewater: is there a link? University of Arizona School of Agricultural and Biosystems Engineering Seminar Series.

October 1, 2013, Megdal, Sharon B., Interview, Arizona Illustrated, KUAT TV, Tucson, AZ.

- October 1, 2013, McLain, Jean E., Health effects of long-term irrigation with recycled municipal wastewater: Are we spreading antibiotic resistance to our food supply? The University of Arizona School of Plant Sciences Interdisciplinary Seminar Series, Tucson, AZ.
- October 2, 2013, McLain, Jean E., Antibiotic resistance and recycled municipal wastewater: Is there a link? Pima County (AZ) Regional Flood Control District Monthly Brown Bag Series
- October 3, 2013, Rupprecht, Candice, and Brittany C. Xiu, Presentation, C2E Water Use Dashboard, Water Smart Innovations 2013 Annual Conference, Las Vegas, NV.
- October 4, 2013, Megdal, Sharon B., Panelist, Water Efficiency and the Colorado River Basin Supply and Demand Imbalance, Water Smart Innovations Conference, Las Vegas, NV.
- October 8, 2013, Megdal, Sharon B., Panelist, VerdeXchange Water Panel, Scottsdale, AZ.
- October 8, 2013, Mott Lacroix, Kelly, Exploring Environmental Flow Needs and Responses in Arizona: The Environmental Water Demands Database, Phoenix Chapter Monthly Meeting, Arizona Hydrological Society, Phoenix, AZ.
- October 9, 2013, Mott Lacroix, Kelly, Understanding the Upper Gila River Watershed Resources for Today and Tomorrow, Gila Watershed Partnership Monthly Meeting, Safford, AZ.
- October 11, 2013, McOmber, Todd C., Channah M. Rock, Jean E. McLain, and Joan E. Curry, Poster Presentation, Water quality improvements for Southern Arizona on the Upper Santa Cruz River, Fourth Annual University of Arizona Food Safety Consortium Meeting, Tucson, AZ.
- October 11, 2013, McLain, Jean E., Leader, University of Arizona Food Safety Consortium Annual Meeting, Omni Tucson Resort, Tucson, AZ.
- October 18, 2013, Megdal, Sharon B., Water Banks: Using managed aquifer recharge to meet water policy objectives, ISMAR8, 8th International Symposium on Managed Aquifer Recharge, Megdal, Sharon B., Peter Dillon (presenting), and Kenneth Seasholes, Beijing, China.
- October 22, 2013, Megdal, Sharon B., Keynote Presentation, Useful Lessons from Transboundary Water Efforts along the United States-Mexico Border, WATEC 2013, Tel Aviv, Israel.
- October 28, 2013, McLain, Jean E., Antibiotic Resistance in Agricultural Environments: A call to action, Interview with Libby's Luncheonette Radio Program, WCHE 1520AM, Westchester, PA.
- October 28, 2013, Mott Lacroix, Kelly, Exploring Environmental Flow Needs and Responses in Arizona: The Environmental Water Demands Database, Pima Association of Governments, Watershed Subcommittee Meeting, Tucson, AZ.
- November 3, 2013, McLain, Jean E., Invited Participant, Ninja Communications Science: Becoming the Messenger Workshop, Tampa Convention Center, Tampa, FL.
- November 5, 2013, Megdal, Sharon B., Andrea Gerlak and Robert G. Varady, Session Organizer and Moderator, Groundwater Governance in the U.S. - Results of a survey of the 50 States, American Water Resources Association Annual Water Resources Conference, Portland, OR.
- November 5, 2013, McLain, Jean E., and Lisa Durso, Daniel Snow, Antibiotic resistance in agricultural environments: A call to action, ASA-CSSA-SSSA Annual International Agronomy Meetings, Tampa, FL.
- November 5, 2013, Mott Lacroix, Kelly, and Candice Rupprecht, Water Experts Open House, Clarkdale Public Meeting, Clarkdale, AZ.
- November 13, 2013, Megdal, Sharon B., Water Policies of Israel and Arizona: Lessons learned and outstanding challenges, Heartbeat of Israel Community Lecture Series, Tucson, AZ.

November 13, 2013, Mott Lacroix, Kelly, Exploring Environmental Flow Needs and Responses in Arizona: The environmental water demands database, Environmental Research Grad Blitz, Tucson, AZ.

November 14, 2013, Megdal, Sharon B., Water Cooperation along the United States-Mexico Border, Why Cooperate? An Interdisciplinary Panel sponsored by the University of Arizona Honors College and the National Endowment for the Humanities, University of Arizona, Tucson, AZ.

November 20, 2013, Eden, Susanna, Groundwater, Climate and Stakeholder Engagement Objectives, Update and Schedule, GCASE Milestone Workshop 2, Tucson, AZ.

November 20, 2013, Megdal, Sharon B., Presentation and workshop host, Update on the Transboundary Aquifer Assessment Program: Santa Cruz and San Pedro Aquifers, Groundwater, Climate and Stakeholder Engagement, Workshop, Water Resources Research Center, Tucson, AZ.

November 21, 2013, Megdal, Sharon B. with Eylon Shamir, Incorporating Climate Information and Stakeholder Engagement in Groundwater Resources Planning and Management, , National Webinar sponsored by NOAA-SARP et al.

November 22, 2013, Megdal, Sharon B., Presentation and Roundtable Moderator, Water Policies of Israel and Arizona, Water Innovation and Technology Commercialization Roundtable, WRRRC Tucson, AZ.

December 4, 2013, Mott Lacroix, Kelly, Calculating and Considering Water for Riparian and Aquatic Ecosystems in Arizona, Webinar for the Desert LCC: Critical Management Question 1 Team (Riparian Issues).

December 4, 2013, Mott Lacroix, Kelly, Calculating and Considering Water for Riparian and Aquatic Ecosystems in Arizona, Pima County Regional Flood Control District Monthly Brown Bag, Tucson, AZ.

December 10, 2013, Megdal, Sharon B., The Role and Programs of the Water Resources Research Center, Verde Valley Ditch Associations/ Companies Meeting, Cottonwood, AZ.

December 19, 2013, Eden, Susanna, Groundwater, Climate and Stakeholder Engagement for Water Resources Planning and Management, International Boundary and Water Commission, Southeast Arizona Citizens Forum, Tucson, AZ.

Section 7-Arizona Project WET Presentations

January 7, 2013, Ramaswamy, Sushmita, Water Savers Mystery Box Presentation, Copper Creek Elementary School, Glendale, AZ.

January 10, 2013, Justice, Pamela, Central Arizona College Water Festival, Coolidge, AZ.

January 15, 2013, Ramaswamy, Sushmita, Water Savers Mystery Box, Finley Farms Elementary School, Gilbert, AZ.

January 16, 2013, Justice, Pamela, Envirothon Training, Dugas, AZ.

January 18, 2013, Justice, Pamela, Central Arizona College Water Festival, Coolidge, AZ.

January 29, 2013, Sleeper, Tina, Mini-Water Festival Presentation, Coolidge, AZ.

February 13, 2013, Schwartz, Kerry, Tohono Chul Docents Presentation, Tohono Chul Park, Tucson, AZ.

February 20, 2013, Ramaswamy, Sushmita, Groundwater Flow Model Presentation, Tonopah High School, Tonopah, AZ.

April 13, 2013, Schwartz, Kerry, Presentation with GK12 Engineering Fellows, WRRRC, Tucson, AZ

May 2, 2013, Sleeper, Tina, Mini-Water Festival Presentation, Coolidge, AZ.

May 3, 2013, Sleeper, Tina, Mini-Water Festival Presentation, Coolidge, AZ.

June 18, 2013, Justice, Pamela, Water Cycle Presentation to Project NICE, Maricopa County Extension Office, Phoenix, AZ.

June 20, 2013, Schwartz, Kerry, Presentation with GK12 Teachers, Tucson, AZ.

July 16, 2013, Sleeper, Tina, Globe-Miami Water Festival Presentation to the Gila County Board of Supervisors, Gila County Courthouse, Globe, AZ.

July 16, 2013, Sleeper, Tina, Globe-Miami Water Festival Presentation to Potential Globe-Miami AWF Committee, Gila County Cooperative Extension, Globe, AZ.

August 7, 2013, Sleeper, Tina, Arizona Water Festival Presentation to Globe Rotary, Demarco's, Globe, AZ.

August 15, 2013, Sleeper, Tina, Arizona Water Festival Presentation to Gila County School Administrators, Gila County Education Agency Training Room, Globe, AZ.

August 15, 2013, Oakes, Tara, Groundwater Flow Model Presentation, Youngker High School, Buckeye, AZ.

August 17, 2013, Thomas-Hilburn, Holly, Facilitator, WIP 2013-2014 Teacher Cohort Academy, Maricopa County Extension Office, Phoenix, AZ.

August 21, 2013, Oakes, Tara, Groundwater Flow Model Presentation, Arlington Elementary School, Arlington, AZ.

August 22, 2013, Oakes, Tara, Groundwater Flow Model Presentation, Copper Creek Elementary School, Glendale, AZ.

August 27, 2013, Oakes, Tara, Groundwater Flow Model Presentation, Arlington Elementary School, Arlington, AZ.

August 28, 2013, Sleeper, Tina, Arizona Water Festival Presentation to ACDEHSA County Supervisors Association, County Supervisors Association Building, Phoenix, AZ.

August 28, 2013, Stewart, Tish, Groundwater Flow Model Presentation, Campo Verde High School, Gilbert, AZ.

August 29, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Youngker High School, Buckeye, AZ.

August 29, 2013, Stewart, Tish, Groundwater Flow Model Presentation, Campo Verde High School, Gilbert, AZ.

September 3, 2013, Oakes, Tara, Groundwater Flow Model Presentation, Liberty Traditional Charter School, Phoenix, AZ.

September 4, 2013, Oakes, Tara, Groundwater Flow Model Presentation, Copper Trails Elementary School, Goodyear, AZ.

September 5, 2013, Sleeper, Tina, Flagstaff Water Festival Volunteer Training, Northern Arizona University, Flagstaff, AZ.

September 6, 2013, Oakes, Tara, Groundwater Flow Model Presentation, Park Meadows Elementary, Glendale, AZ.

September 10, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Arlington Elementary School, Arlington, AZ.

September 11, 2013, Stewart, Tish, Groundwater Flow Model Presentation, Bright Beginnings School, Chandler, AZ.

September 12, 2013, Oakes, Tara, Groundwater Flow Model Presentation, Orangedale Elementary, Phoenix, AZ.

September 12, 2013, Stewart, Tish, Groundwater Flow Model Presentation, Champion Schools, Phoenix, AZ.

September 19, 2013, Wilkening, Betsy, Groundwater Flow Model Presentation, Tucson, AZ.

September 19, 2013, Oakes, Tara, Groundwater Flow Model Presentation, Ingleside Middle School, Phoenix, AZ.

September 20, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Liberty Traditional Charter School, Phoenix, AZ.

September 24, 2013, Oakes, Tara, Groundwater Flow Model Presentation, Mountainside Middle School, Scottsdale, AZ.

September 25, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Park Meadows Elementary, Glendale, AZ.

September 26, 2013, Oakes, Tara, Groundwater Flow Model Presentation, Verrado Middle School, Buckeye, AZ.

September 27, 2013, Oakes, Tara, Groundwater Flow Model Presentation, Western Valley Middle School, Phoenix, AZ.

September 30, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Mountainside Middle School, Scottsdale, AZ.

October 1, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Copper Trails Elementary School, Goodyear, AZ.

October 1, 2013, Stewart, Tish, Groundwater Flow Model Presentation, Arizona State University Preparatory Middle School, Phoenix, AZ.

October 2, 2013, Schwartz, Kerry, "Do you know your urban water address--and why it matters?" Water Smart Innovations Conference, Las Vegas, NV.

October 2, 2013, Stewart, Tish, Groundwater Flow Model Presentation, Summit Schools of Ahwatukee, Phoenix, AZ.

October 3, 2013, Wilkening, Betsy, Groundwater Flow Model Presentation, Tucson, AZ.

October 3, 2013, Downing, Jenny, Groundwater Flow Model Presentation, Cactus Middle School, Casa Grande, AZ.

October 4, 2013, Downing, Jenny, Groundwater Flow Model Presentation, Casa Grande Middle School, Casa Grande, AZ.

October 9, 2013, Oakes, Tara, Groundwater Flow Model Presentation, Norterra Canyon School, Phoenix, AZ.

October 11, 2013, Wilkening, Betsy, To the Poles & Beyond, Arizona Science Teachers Association Conference, Grand Canyon University, Phoenix, AZ.

October 11, 2013, Schwartz, Kerry, The Water Investigations Program: Using Water as an Integrating Context for STEM in the Classroom, Arizona Science Teachers Association Conference, Grand Canyon University, Phoenix, AZ.

October 11, 2013, Wilkening, Betsy, Facilitator, School Water Audit Training for Tucson Water Educators, WRRRC, Tucson, AZ.

October 11, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Western Valley Middle School, Phoenix, AZ.

October 12, 2013, Wilkening, Betsy and Kerry Schwartz, Agents of Change: Integrating common core with unique hands-on science projects, Arizona Science Teachers Association Conference, Grand Canyon University, Phoenix, AZ.

October 12, 2013, Sleeper, Tina, Water Education Invigorates Classroom Learning with Common Core and STEM, Arizona Science Teachers Association Conference, Grand Canyon University, Phoenix, AZ.

October 12, 2013, Stoll, Mary Ann, Tired of Lecturing? Let the Students Take Charge!, Arizona Science Teachers Association Conference, Grand Canyon University, Phoenix, AZ.

October 15, 2013, Oakes, Tara, Groundwater Flow Model Presentation, Griffith Elementary School, Phoenix AZ.

October 24, 2013, Oakes, Tara, Groundwater Flow Model Presentation, Copper King Elementary School, Phoenix, AZ.

October 25, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Ryan Elementary School, Chandler, AZ.

October 29, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Campo Verde High School, Gilbert, AZ.

October 31, 2013, Morris, Sam and Tara Oakes, Groundwater Flow Model Presentation, Rogers Ranch Elementary School, Laveen, AZ.

November 2, 2013, Oakes, Tara, The Water Investigation Program presented to Master Watershed Stewards, Rio Salado Habitat Restoration Area, Phoenix, AZ.

November 6, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, TG Barr Elementary School, Phoenix, AZ.

November 7, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Ingleside Middle School, Phoenix, AZ.

November 9, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Verrado Middle School, Buckeye, AZ.

November 14, 2013, Justice, Pamela, Groundwater Presentation to the Master Watershed Stewards, Maricopa County Extension Office, Phoenix, AZ.

November 15, 2013, Oakes Tara, Groundwater Flow Model Presentation, Central High School, Phoenix, AZ.

November 18, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Copper King Elementary School, Phoenix, AZ.

November 25, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Tempe High School, Tempe, AZ.

November 26, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Central High School, Phoenix, AZ.

December 2, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Copper Creek Elementary School, Glendale, AZ.

December 5, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Orangedale Elementary, Phoenix, AZ.

December 6, 2013, Oakes, Tara, Water Savers Mystery Box Presentation, Griffith Elementary School, Phoenix, AZ.

December 10, 2013, Schwartz, Kerry, Engaging the Community in Wise and Purposeful Use of Water, Arizona Hydrological Society Tucson monthly meeting, Montgomery and Associates Office, Tucson, AZ.

University of Arizona Students/Americrops Member Presentations

As part of Arizona Project WET's Tucson Education Program, 16 University of Arizona students and three Americorps Members gave presentations:

224 presentations as part of a Sweetwater Wetlands Water Festival, engaging 723 adults and 3393 4th grade students, totaling 448 face-time man hours.

151 3rd Grade Groundwater Presentations, engaging 156 adults and 3667 students, totaling 302 face-time man hours.

49 6th Grade Groundwater Presentations, engaging 28 adults and 1178 students, totaling 102 face-time man hours

Section 8-APW Workshops

January 13, 2013, Stoll, Mary Ann and Pamela Justice, Facilitators, Session 2 of Earn Your Water Wings with Scottsdale School District, Gilbert Schools District Office, Gilbert, AZ.

January 16, 2013, Schwartz, Kerry and Holly Thomas-Hilburn, Facilitators, WIP 2012-2013 Teacher Cohort Academy, Phoenix, AZ.

January 26, 2013, Schwartz, Kerry, Facilitator, NASA Earth Camp for Educators 2013 Academy, Arizona-Sonora Desert Museum, Tucson, AZ.

February 2, 2013, Sleeper, Tina, Facilitator, Gilbert Water Festival Teacher Workshop, Gilbert District Office, Gilbert, AZ.

February 9, 2013, Schwartz, Kerry, Facilitator, Project WET 2.0 Guide Workshop, Cochise County Cooperative Extension Office, Sierra Vista, AZ.

February 9, 2013, Stoll, Mary Ann and Pamela Justice, Facilitators, Session 1 of 2013 Chandler Flow of H2O Academy, Environmental Education Center, Chandler, AZ.

February 11, 2013, Sleeper, Tina and Kerry Schwartz, Facilitators, Gilbert Water Festival Volunteer Training, Gilbert, AZ.

February 11, 2013, Sleeper, Tina, Facilitator, Gilbert Water Festival Volunteer Training, Crossroads Park, Gilbert, AZ.

February 12, 2013, Sleeper, Tina, Facilitator, Tucson Water Festival Teacher Workshop, Amphitheater District Office, Tucson, AZ.

February 13, 2013, Schwartz, Kerry, Facilitator, NASA Earth Camp for Educators 2013 Academy, Tucson, AZ.

February 22, 2013, Sleeper, Tina, Facilitator, Tucson Water Festival Volunteer Training, WRRRC, Tucson, AZ.

February 23, 2013, Schwartz, Kerry, Mary Ann Stoll, and Pamela Justice, Facilitators, Session 3 of Earn Your Water Wings with Scottsdale School District, Southeast Regional Library, Gilbert, AZ.

March 2, 2013, Schwartz, Kerry and Holly Thomas-Hilburn, Facilitators, WIP 2012-2013 Teacher Cohort Academy, Central Arizona College, Coolidge, AZ.

March 12, 2013, Schwartz, Kerry, Mary Ann Stoll, and Pamela Justice, Facilitators, Session 2 of 2013 Chandler Flow of H2O Academy, Environmental Education Center, Chandler, AZ.

March 13, 2013, Schwartz, Kerry, Mary Ann Stoll, and Pamela Justice, Facilitators, Session 3 of 2013 Chandler Flow of H2O Academy, Environmental Education Center, Chandler, AZ.

March 14, 2013, Schwartz, Kerry, Mary Ann Stoll, and Pamela Justice, Facilitators, Session 4 of 2013 Chandler Flow of H2O Academy, Environmental Education Center, Chandler, AZ.

March 30, 2013, Schwartz, Kerry, Facilitator, NASA Earth Camp for Educators 2013, Christopher Columbus Park and the Planetary Science Institute, Tucson, AZ.

April 13, 2013, Justice, Pamela, Facilitator, Session 4 of Earn Your Water Wings with Scottsdale School District, Scottsdale, AZ.

April 23, 2013, Sleeper, Tina, Facilitator, Student Agriculture Day Water Festival Lesson Training, Window Rock, AZ.

April 30, 2013, Sleeper, Tina, Facilitator, Nogales Water Festival High School Students Training, Nogales, AZ.

May 4, 2013, Schwartz, Kerry, Facilitator, NASA Earth Camp for Educators 2013 Academy, Tucson, AZ.

May 28-May 29, 2013, Schwartz, Kerry, Facilitator, NASA Earth Camp for Educators 2013 Academy, Mt. Lemmon Sky Center, Tucson, AZ.

May 30, 2013, Schwartz, Kerry, Mary Ann Stoll, and Pamela Justice, Facilitators, Session 5 of Earn Your Water Wings with Scottsdale School District, Gilbert Schools District Office, Gilbert, AZ.

June 4-June 5, 2013, Schwartz, Kerry, Mary Ann Stoll and Pamela Justice, Facilitators, Sessions 5 and 6 of 2013 Chandler Flow of H₂O Academy, Environmental Education Center, Chandler, AZ.

June 10-June 13, 2013, Schwartz, Kerry, Facilitator, NASA Earth Camp for Educators 2013 Academy, Tucson, AZ.

June 17-June 20, 2013, Wilkening, Betsy and Kerry Schwartz, Facilitators, Tucson STEM Academy 4-day teacher workshop, Tucson, AZ.

June 25-June 27, 2013, Thomas-Hilburn, Holly and Kerry Schwartz, Facilitators, Water Investigations Program 2013-2014 Teacher Cohort Academy, Phoenix, AZ.

July 10-July 11, 2013, Schwartz, Kerry, Facilitator, 2013 Advanced Water Education Workshop, ASU Decision Center for a Desert City, Tempe, AZ.

July 12, 2013, Schwartz, Kerry, Facilitator, Biosphere 2 STEM Education for 4th-6th Grade Teachers Workshop, Biosphere 2, Tucson, AZ.

August 17, 2013, Schwartz, Kerry, Facilitator, NASA Earth Camp for Educators 2013 Academy, Tucson, AZ.

August 24, 2013, Schwartz, Kerry, Facilitator, FOSS Kit Workshop Day 1, Tucson, AZ.

August 24, 2013, Sleeper, Tina, Facilitator, Chandler Water Festival Teacher Workshop, Chandler, AZ.

September 3, 2013, Sleeper, Tina, Facilitator, Verde Valley Water Festival Teacher Workshop, Dead Horse Ranch State Park, Cottonwood, AZ.

September 7, 2013, Schwartz, Kerry, Facilitator, FOSS Kit Workshop Day 2, Education Research Lab, Tucson, AZ.

September 7, 2013, Sleeper, Tina, Facilitator, Flagstaff Water Festival Teacher Workshop, Flagstaff Unified District Office, Flagstaff, AZ.

September 13, 2013, Stoll, Mary Ann and Pamela Justice, Facilitators, West Valley STEM Academy, Day 1, Peoria, AZ

September 14, 2013, Wilkening, Betsy, Facilitator, Arizona Project WET, Tucson Water Educator Training, WRRRC, Tucson, AZ.

September 14, 2013, Sleeper, Tina, Facilitator, Yuma Water Festival Teacher Workshop, Yuma, AZ.

September 14, 2013, Thomas-Hilburn, Holly, Facilitator, WIP 2013-2014 Teacher Cohort Academy, Maricopa County Extension Office, Phoenix, AZ.

September 19, 2013, Schwartz, Kerry, Facilitator Arizona Hydrological Society Symposium Teacher Workshop, Tucson, AZ.

September 24, 2013, Stoll, Mary Ann and Pamela Justice , West Valley STEM Academy, Day 2, Peoria, AZ.

September 25, 2013, Sleeper, Tina, Facilitator, Flagstaff Water Festival Volunteer Training, Flagstaff, AZ.

September 30, 2013, Sleeper, Tina, Facilitator, Payson Water Festival Volunteer Training, Payson Unified School District Office, Payson, AZ.

September 30-October 2, 2013, Stoll, Mary Ann and Pamela Justice, Facilitators, 2013-2014 Chandler Academy, Day 1, 2 & 3 of 6, Environmental Education Center, Chandler, AZ.

October 8, 2013, Wilkening, Betsy, Facilitator, School Water Audit Training for Tucson Water Educators, WRRRC, Tucson, AZ.

October 12, 2013, Wilkening, Betsy, Facilitator, Champions for Change and Water Conservation, Arizona Science Teachers Association Conference, Grand Canyon University, Phoenix, AZ.

October 17, 2013, Sleeper, Tina, Facilitator, Verde Valley Water Festival Volunteer Training, Camp Verde, AZ.

October 19, 2013, Stoll, Mary Ann and Pamela Justice, Facilitators, 2013-2014 Chandler Academy, Day 4 of 6, Environmental Education Center, Chandler, AZ.

October 19, 2013, Sleeper, Tina, Facilitator, Florence Water Festival Teacher Workshop, Florence, AZ.

October 28, 2013, Sleeper, Tina, Facilitator, Chandler Water Festival Volunteer Training, Tumbleweed Recreation Center, Chandler, AZ.

October 29, 2013, Justice, Pamela and Kerry Schwartz, Facilitators, West Valley STEM Academy Grades 1-5, Day 1, Avondale Elementary School, Avondale AZ.

October 29, 2013, Sleeper, Tina, Facilitator, Florence Water Festival Volunteer Training, Florence High School, Florence, AZ.

October 29-30, 2013, Sleeper, Tina, Facilitator, Chandler Water Festival Basha High School Students Training Part 1 & 2, Basha High School, Chandler, AZ.

November 2, 2013, Schwartz, Kerry, Facilitator, NASA Earth Camp for Educators 2013 Academy, Arizona-Sonora Desert Museum, Tucson, AZ.

November 4, 2013, Sleeper, Tina, Facilitator, Casa Grande Water Festival Teacher Workshop Part 1, Casa Grande Elementary District Office, Casa Grande, AZ.

November 5, 2013, Justice, Pamela and Kerry Schwartz, Facilitators, West Valley STEM Academy Grades 1-5, Day 2, Avondale Elementary School, Avondale, AZ.

November 12, 2013, Oakes, Tara, Facilitator, Outdoor Water Audit Training, Rogers Ranch Elementary School, Laveen, AZ.

November 14, 2013, Sleeper, Tina, Facilitator, Casa Grande Water Festival Teacher Workshop Part 2, Casa Grande Elementary District Office, Casa Grande, AZ.

November 19, 2013, Sleeper, Tina, Facilitator, Florence Water Festival Volunteer Training, Arizona State Prison Complex--Eyman, Florence, AZ.

November 19, 2013, Sleeper, Tina, Facilitator, Florence Water Festival Volunteer Training, Central Arizona Detention Center, Florence, AZ.

November 19, 2013, Sleeper, Tina, Facilitator, Florence Water Festival Volunteer Training, Johnson Utilities, San Tan Valley, AZ.

November 20, 2013, Sleeper, Tina, Facilitator, Yuma Water Festival Volunteer Training, Quartermaster Depot, Yuma, AZ.

Section 9-APW Program Events

January 17, 2013, Sleeper, Tina, Tara Oakes, and Holly Thomas-Hilburn, Facilitators, WIP Field Day with Monterey Park Elementary School, Hassayampa River Preserve, Wickenburg, AZ.

January 18, 2013, Sleeper, Tina, Tara Oakes, and Holly Thomas-Hilburn, Facilitators, Indoor School Water Audit, Copper Creek Elementary School, Glendale, AZ.

February 23, 2013, Sleeper, Tina, Coordinator, Phoenix Water Festival, Phoenix, AZ.

February 27, 2013, Oakes, Tara and Holly Thomas-Hilburn, Facilitators, WIP Field Day with Imagine Schools at Bell Canyon, Hassayampa River Preserve, Wickenburg, AZ.

February 28, 2013, Sleeper, Tina, Coordinator, Gilbert Water Festival, Gilbert, AZ.

March 6, 2013, Oakes, Tara and Holly Thomas-Hilburn, Facilitators, WIP Field day with Santan Junior High School, Hassayampa River Preserve, Wickenburg, AZ.

March 7, 2013, Oakes, Tara and Holly Thomas-Hilburn, Facilitators, WIP Field Day with Settler's Point Elementary, Rio Salado Habitat Restoration Area, Phoenix, AZ.

March 14, 2013, Oakes, Tara and Holly Thomas-Hilburn, Facilitators, WIP Field Day with Orangedale Academy, Hassayampa River Preserve, Wickenburg, AZ.

March 15, 2013, Oakes, Tara and Holly Thomas-Hilburn, Facilitators, WIP Field Day with Orangedale Academy, Hassayampa River Preserve, Wickenburg, AZ.

March 20, 2013, Oakes, Tara and Holly Thomas-Hilburn, Facilitators, WIP Field Day with Copper Creek Elementary, Hassayampa River Preserve, Wickenburg, AZ.

March 21, 2013, Oakes, Tara and Holly Thomas-Hilburn, Facilitators, WIP Field Day with Mountain Side Middle School, Hassayampa River Preserve, Wickenburg, AZ.

March 27, 2013, Oakes, Tara and Holly Thomas-Hilburn, Facilitators, WIP Field Day with Ryan Elementary School, Hassayampa River Preserve, Wickenburg, AZ.

March 28, 2013, Oakes, Tara and Holly Thomas-Hilburn, Facilitators, WIP Field Day with Payne Junior High School, Hassayampa River Preserve, Wickenburg, AZ.

March 29, 2013, Oakes, Tara and Holly Thomas-Hilburn, Facilitators, WIP Field Day with Bright Beginnings School, Hassayampa River Preserve, Wickenburg, AZ.

April 18, 2013, Oakes, Tara and Holly Thomas-Hilburn, Facilitators, WIP Field Day with Tempe High School, Rio Salado Habitat Restoration Area, Phoenix, AZ.

April 19, 2013, Oakes, Tara and Holly Thomas-Hilburn, Facilitators, WIP Field Day with Tonopah High School, Hassayampa River Preserve, Wickenburg, AZ.

April 24, 2013, Oakes, Tara and Holly Thomas-Hilburn, Facilitators, WIP Field Day with West Point Elementary School, Hassayampa River Preserve, Wickenburg, AZ.

April 24-April 25, 2013, Sleeper, Tina, Coordinator, Window Rock Water Festival, Window Rock, AZ.

April 25, 2013, Oakes, Tara and Holly Thomas-Hilburn, Facilitators, WIP Field Day with Roger's Ranch Elementary School, Hassayampa River Preserve, Wickenburg, AZ.

April 26, 2013, Oakes, Tara and Holly Thomas-Hilburn, Facilitators, WIP Field Day with ASU Preparatory Academy, Hassayampa River Preserve, Wickenburg, AZ.

April 30, 2013, Lynch, Tasha, Facilitator, Water Festival Lessons at a Central Arizona College field day, Coolidge, AZ.

May 2, 2013, Sleeper, Tina, Coordinator, Nogales Water Festival, Nogales, AZ.

May 3, 2013, Justice, Pamela, Tara Oakes and Holly Thomas-Hilburn, Facilitators, WIP Field Day with Finley Farms Elementary School, Hassayampa River Preserve, Wickenburg, AZ.

September 6, 2013, Stewart, Tish, Tara Oakes, and Holly Thomas-Hilburn, Facilitators, Indoor School Water Audit, Youngker High School, Buckeye, AZ.

September 13, 2013, Lynch, Tasha and Tara Oakes, Facilitators, WIP Mini-Field Day with Orangedale Elementary School, Rio Salado Habitat Restoration Area, Phoenix, AZ.

September 16, 2013, Oakes, Tara, Facilitator, Indoor School Water Audit, Youngker High School, Buckeye, AZ.

September 17, 2013, Oakes, Tara, Facilitator, Indoor School Water Audit, Arlington Elementary School, Arlington, AZ.

September 26, 2013, Sleeper, Tina, Coordinator, Flagstaff Water Festival, Foxglenn Park, Flagstaff, AZ.

October 3, 2013, Stewart, Tish and Tara Oakes, Facilitators, Indoor School Water Audit, Liberty Traditional Charter School, Phoenix, AZ.

October 4, 2013, Sleeper, Tina, Coordinator, 7th Annual Payson Water Festival, Green Valley Park, Payson, AZ.

October 10, 2013, Stoll, Mary Ann, Tara Oakes, and Sam Morris, Facilitators, Indoor School Water Audit, Park Meadows Elementary, Glendale, AZ.

October 10, 2013, Downing, Jenny, Facilitator, H2Olympics Activity at the Second Annual Family Science Night, Casa Grande, AZ.

October 22, 2013, Schwartz, Kerry, Oakes, Tara and Sam Morris, Facilitators, Indoor School Water Audit, Copper Trails Elementary School, Goodyear, AZ.

October 23, 2013, Schwartz, Kerry, Tara Oakes, and Sam Morris, Facilitators, Indoor School Water Audit, Western Valley Middle School, Phoenix, AZ.

October 24, 2013, Sleeper, Tina, Facilitator, Verde Valley Water Festival, Dead Horse Ranch State Park, Cottonwood, AZ.

November 1, 2013, Wilkening, Betsy, Scientific Mentor, Arizona Project WET's Water Investigations Program Field Day, Hassayampa River Preserve, Wickenburg, AZ.

November 1, 2013, Sleeper, Tina, Coordinator, Chandler Water Festival, Chandler, AZ.

November 1, 2013, Wilkening, Betsy, Sam Morris, Kerry Schwartz, and Tara Oakes, Facilitators, WIP Field Day with Youngker High School, Hassayampa River Preserve, Wickenburg, AZ.

November 4, 2013, Morris, Sam and Tara Oakes, Facilitators, Indoor School Water Audit, Navarette Elementary, Chandler, AZ.

November 5, 2013, Morris, Sam and Tara Oakes, Facilitators, Indoor School Water Audit, Bright Beginnings School, Chandler, AZ.

November 7-8 2013, Wilkening, Betsy, Presenter, Fun Fest TCC Water Activities All Day, Tucson Convention Center, Tucson, AZ.

November 12, 2013, Sleeper, Tina, Sam Morris, Pam Justice, Kerry Schwartz, and Tara Oakes, Facilitators, Indoor School Water Audit, Campo Verde High School, Gilbert, AZ.

November 13, 2013, Morris, Sam and Tara Oakes, Facilitators, Indoor School Water Audit, TG Barr Elementary School, Phoenix, AZ.

November 14, 2013, Morris, Sam and Tara Oakes, Facilitators, Indoor School Water Audit, Verrado Middle School, Buckeye, AZ.

November 19, 2013, Morris, Sam and Tara Oakes, Facilitators, Indoor School Water Audit, Mountain Side Middle School, Scottsdale, AZ.

November 20, 2013, Morris, Sam and Tara Oakes, Facilitator, Indoor School Water Audit, Ingleside Middle School, Phoenix, AZ.

November 21, 2013, Sleeper, Tina, Coordinator, 7th Annual Yuma Water Festival, Quartermaster Depot, Yuma, AZ.

November 21, 2013, Justice, Pamela, Sam Morris, and Tara Oakes, Facilitators, Indoor School Water Audit, Copper King Elementary School, Phoenix, AZ.

November 26, 2013, Sleeper, Tina, Coordinator, Florence Water Festival, Anthem Parkside at Merrill Ranch, Florence, AZ.

December 3, 2013, Sleeper, Tina, Sam Morris, Pam Justice, Kerry Schwartz, and Tara Oakes, Facilitators, Outdoor School Water Audit, Central High School, Phoenix, AZ.

December 4, 2013, Sleeper, Tina, Sam Morris, and Tara Oakes, Facilitators, Indoor School Water Audit, Tempe High School, Tempe, AZ.

December 10, 2013, Oakes, Tara, Facilitator, Indoor School Water Audit, Copper Creek Elementary School, Glendale, AZ.

December 12, 2013, Morris, Sam and Tara Oakes, Facilitators, Indoor School Water Audit, Orangedale Elementary, Phoenix, AZ.

Section 9-WSP Fellowships

TRIF STUDENT FELLOWSHIP RECIPIENTS, 2012/13					
Grads					
Joel Biederman	PhD	COS	HWR	Paul Brooks	Improved Predictive Tools for Water Availability Following Forest Disturbance
Jake Davis	PhD	COE	ChEE	Jim Baygents	Electrochemical Processes for Removing Dissolved Minerals from Potable Water
David Love	PhD	COS	Math	Güzin Bayraksan	A Data-Driven Method for Robust Water Allocation under Uncertainty
Zachary Sugg	PhD	SBS	SGD	Carl Bauer	Governing the Unseen: A comparative analysis of Arizona and Texas groundwater institutions
Undergrads					
Samantha McEntire	BS	COS	HWR	Martha Whitaker	Understanding Salinity Stress in Citrus
Adam Karczynski	BS	COS	HWR	Martha Whitaker & Marek Zreda	Determining Soil Hydraulic Conductivity from Cosmic-Ray Neutron Data
Yiming Zhang	BS	COE	ChEE	Dominic Gervasio	1) Microbial Fuel Cells and 2) Corrosion Testing of Water Delivery Pipelines for the Tucson City Water System
Stephanie Ruehl	BS	COE	ChEE	Bob Arnold	Use of Wastewater to Provide Nutrients for Algal Growth as Biofuel
TRIF STUDENT FELLOWSHIP RECIPIENTS, 2013/14					
Grads					
Gwen Woods	PhD	COE	ChEE/CEEM	Bob Arnold & Kevin Lansey	A Tool for Integrating Planning of Water Infrastructure
Kerton Victory	PhD	COPH	Public Health	Paloma Beamer	Risk Perception, Drinking Water Source and Quality in a Low-Income Latino Community Along the US-Mexico Border
Sonya Ziaja	PhD	SBS	Geography	Carl Bauer	Arizona's Water-Energy Nexus
Lily House Peters	PhD	SBS	Geography	Chris Scott	Scenario Planning for Future Water Demand in the Transboundary San Pedro Watershed: Incorporating Improved Spatial Data and Modeling
Carlos Carrillo	PhD	COS	Atmo Sci	Chris Castro	Generating a More Unified Perspective of the North American Monsoon Variability and Change: From the paleoclimate to climate change projection timescales

Corin Hammond	PhD	CALS	SWES	Jon Chorover	Phytostabilization of Mine Tailings: The impact of plant growth and irrigation on the fate of metal(loid) toxins in porewaters
Undergrads					
Jeremiah Taeger	BS	COE	ChEE	Eduardo Saez	Removal of Trace Organic Compounds from Waterwater Effluent for Aquifer Recharge
Manuel Vasquez	BS	COE	ChEE	Kim Ogden	Recycling Water: One step to making algal biofuels a reality

Section 10 -WRRC Students

Student Name	Major	Degree Sought	Date of Graduation
Armenta, Mariah	Geosciences / Geophysics	BS	May-15
Assimacopoulos, E.	Molecular & Cellular Biology	BS	May-15
Banister, Kathryn L.	Planning	MS	May-14
Bedoya, Bianka	Agribusiness Economics & Management / Agricultural Economics / Spanish	BS	May-15
Chan, David J.	Natural Resources / Watershed Management & Ecohydrology	MS	Aug-13
Chase, Jessica	Business Management	BS	May-14
Clark, Jennifer	Elementary Education	BA	May-14
Cleveland, Jenna	Planning	MS	Dec-13
Cusimano, Jeremy	Soil, Water & Environmental Science	MS	May-13
Dehn, Michael	Agricultural & Resource Economics	MS	Aug-13
Delano, Nathaniel	Water, Society & Policy	MS	May-15
Dewalt, Emily	Anthropology / Public Health	BS	May-15
Doung, Alanna	Law	JD	May-13
Driscoll, Jessica	Hydrology	MS	May-14
Edwards, Leah	Political Science / Public Health	BS	May-14
Fausel, Cassandra	Agricultural Education / Environmental Sciences / Environmental Science & Policy	MAE	Dec-13
Fosnot, Spencer L.	Molecular & Cellular Biology	BS	May-13
Fullerton, Christopher	Geography	MS	May-16
Garcia, Luisana	Elementary Education / Spanish	BA	May-15
Gonzales, Stephanie	Political Science / Latin American Studies	BA	May-13

Gudvangen, Emily	Pre-Physiology	BS	May-17
Hamilton, Jillian	Environmental & Water Resources Economics	BS	May-13
Hansen, Lisa	Criminal Justice Studies / Psychology	BS	May-14
Hapeman, Laura	Higher Education Administration / Education Technology	MAE	May-14
Huang, Ling-Yee	Water, Society & Policy	MS	May-15
Joe, Valerisa	Environmental Microbiology	MS	May-15
Jondall, Kelsea	Education	BA	May-14
Jones, Nicholas	History / Pre-Law Thematic / Thematic	BS	May-14
Khamsi, Tymon	Environmental Hydrology & Water Resources / Mathematics / Spanish	BS	May-13
Knerl, Angela	Natural Resources / Watershed Management & Ecohydrology	MS	May-14
Malott, Elissa	Microbiology	BS	Dec-13
McClain, Grace	Anthropology / Public Health	BS	May-13
McOمبر, Todd	Soil, Water & Environmental Science	MS	May-14
Mitchell, Katharine L.	Planning	MS	May-13
Mott Lacroix, Kelly	Arid Lands Resource Sciences / Watershed Management	PhD	Dec-14
Obergh, Victoria L.	Physiology	BS	May-13
Obergh, Victoria L.	Soil, Water & Environmental Science	MS	Dec-14
Pena, Bridgette G.	Molecular & Cellular Biology	BS	May-14
Picazzo, Martin A.	Management Information Systems	BS	May-14
Plesniak, Kelly M.	Agricultural Technology Management & Education	BA	May-13
Posegate, Ann	Soil, Water & Environmental Sciences / Journalism	MS	May-15
Prescott, Alexander	Geosciences / Mathematics	BS	May-15
Prietto, Jacob	Environmental Hydrology & Water Resources	MS	Aug-14
Radonic, Lucero	Anthropology	MS	May-14
Reidy, Christian	Chemistry		May-14
Reuter, Rochelle M.	Environmental Studies / General Business Administration	BS	May-13
Richards, Hunter	Agricultural & Resource Economics	MS	May-13
Schwerin, Kristen	Music	MS	May-15
Sittig, Julia	Natural Resources Studies	MS	Aug-14
Smith, Sarah E.	Creative Writing / Spanish	BA	May-14
Sprouse, Jason	Undecided, College of Arts and Letters	BS	May-17
Tuttle, Koiya	Soil, Water & Environmental Science	MS	Aug-13
Watanabe, Lisa A.	Studio Arts	BFA	May-14
Witte, Becky A.	Chemical Engineering / Engineering Management	MS	May-13

Section 11-Special Recognition for WRRRC Personnel and Programs

Sharon B. Megdal, Director of the UA Water Resources Research Center (WRRRC), was selected to a three-year term on the Board of Directors of the Western Rural Development Center (WRDC). Her term will begin January 2014 and run through December 2016.

Sharon B. Megdal was invited to serve on the National Water Resources Working Group of the Association of Public and Land-Grant Universities' Board on Agricultural Assembly (APLU-BAA) and its Policy Board of Directors.

Sharon B. Megdal joined the Arid Lands Resource Sciences GIDP Executive Committee, Fall 2013.

Jean E. McLain was awarded a fellowship to the Faculty Fellowship Summer Institute in Israel, sponsored by Media Watch International, May 25-June 4, 2013.

Jean E. McLain was appointed as a member of the Steering Committee for Arizona Potable Reuse.

Kelly Mott Lacroix was invited to join the advisory committee for Critical Management Question 1 (water and climate change) for the Bureau of Reclamation Desert Landscape Conservation Cooperative, June, 2013.

Arizona Project WET (APW) was named the winner of the 2013 Gold Award for a long publication from the Association of Natural Resources Extension Professionals for its Water Scene Investigation educational publication. APW also won a Silver Award in the Outstanding Team category for excellence in leadership, planning, designing, delivering and evaluating a high impact Arizona Cooperative Extension natural resources program.

Kerry Schwartz was asked to serve on the Teacher Recruitment, Preparation, Retention and Professional Development subcommittee of the University of Arizona STEM Center at Flandrau Science Center & Planetarium. She continues to advise Arizona State University's Decision Center for a Desert City on the next version of their Water Sim Model.

Kelly Mott Lacroix won the best research presentation at the 2013 UA Institute for the Environment Grad Blitz as well as won the award for best presentation linking science and society.

Alex Prescott, Program Assistant for APW, has been named a recipient of the UA Department of Hydrology and Water Resources' NASA Space Grant. The Department also recently named Prescott a UA Science Ambassador after a competitive selection process to evaluate excellence in academic, research and leadership. He will represent the Department at College of Science community outreach events. Prescott was also awarded the College of Science Dean's List with Distinction Award for 2012-2013.

Leah Edwards, undergraduate student, was named one of only 50 Udall Scholars by the Morris K. Udall and Stewart L. Udall Foundation, in a competition with hundreds of students across the nation.

Valerisa Joe, 2012 Summer Student Intern in the McLain Laboratory, was awarded second place in the student poster competition at the Hispanic Research Center Western Alliance to Expand Student Opportunities Meeting at Arizona State University, March 3-4, 2013, for her poster "Identifying Chicken Fecal Contamination in the Chesapeake Bay Using Quantitative PCR Assays."

Katie Bannister and Christopher Fullerton, graduate students, won the Kathryn B. Willock Library Research Award for their poster in the Graduate and Professional Student Council Student Showcase 2013, November, 2013.