

University of Arizona Water Resources Research Center, Annual Report 2017

Appendix B

Section 1 – WRRC Grants Received

Title	Sponsor
Arizona Project WET Expansion in the Phoenix AMA	Arizona Department of Water Resources
Arizona Project WET -Tucson Active Management Area (AMA) Intergovernmental Agreement	Arizona Department of Water Resources
Recharge the Rain: Community Resilience Through STEM Education	Watershed Management Group
State Water Resources Research Institute Program	U.S. Geological Survey, National Institutes for Water Resources (NIWR)

Section 2 – WRRC 104b Water Research Grants

Title	University	Amount
2016		
Sunlight-driven Reactive Oxygen Species Production for Natural Attenuation of Wastewater Trace Organic Compounds	University of Arizona	\$9,999.00
Recycled Water for Agriculture: On-farm Demonstration and Evaluation	University of Arizona	\$10,000
2017		
Impact of Projected Climate Changes on Mountain-block Recharge Processes	University of Arizona	\$10,000
Might Recycled Wastewater Solve the Rising Problem of Toxin-producing Algae?	University of Arizona	\$9,463.00

Section 3 - WRRC Media Appearances

DATE	TITLE	OUTLET	URL
2017	Living River: Santa Cruz, Ancient River, Urban River	Short film produced by the Sonoran Institute and Pima County Flood Control	
January 17, 2017	Interviews on Agua Dulce project proposed by Tucson Water	The Voice KVOI 1030AM	
February 2017	Lake Havasu Water Festival	HavasuNews	http://www.havasunews.com/news/water-fest-wets-appetite-for-learning/article_6e9f8bf0-fa56-11e6-8dd9-3fab0b4d9bd9.html
February 2017	Peoria Water Festival	YouTube	https://www.youtube.com/watch?v=XI2Yb0dr5bc
February 2, 2017	Super Bowl “Super Flush”...Super Myth??	CALS Cooperative Extension	https://extension.arizona.edu/super-bowl-super-flushsuper-myth

February 9, 2017	Interview on Super bowl's super flush	KGUN9 News	
February 14, 2017	Water key issue at Farm Home Ranch Day (David Sowders)	Eastern Arizona Courier	http://www.eacourier.com/news/water-key-issue-at-farm-home-ranch-day/article_6eff00d0-efe3-11e6-b00a-2fbed0f763a5.html
March 12, 2017	GWP welcomes Water Resource Research Center (Ken Showers)	Eastern Arizona Courier	http://www.eacourier.com/copper_era/news/gwp-welcomes-water-resource-research-center/article_7576cc1a-06bb-11e7-9171-672bbf071bd6.html
March 29, 2017	Water experts in AZ consider impact of EPA executive order (Bud Foster)	KOLD News Now	http://m.tucsonnewsnow.com/tucsonnewsnow/db_330662/contentdetail.htm?full=true&contentguid=ep7EASyd&pn=&ps=#display
March 31, 2017	Arizona Ag & Water: Water conference at the University of Arizona dives deep into issues facing irrigated agriculture	Arizona Water News (ADWR)	http://www.azwater.gov/azdwr/ADWR_News/WaterConferenceatUofA.htm
April 4, 2017	Arizona's Looming Ag Water Shortage: A Farmer's Perspective by Dan Thelander (Julie Murphree)	The Voice-Arizona Farm Bureau	http://info.azfb.org/blog/arizonas-looming-ag-water-shortage-a-farmers-perspective
April 8, 2017	To save water, some Arizona farms temporarily cut production (Tony Davis)	Arizona Daily Star	http://tucson.com/news/science/environment/to-save-water-some-farms-temporarily-cut-production/article_71ae6921-6076-5fb2-af65-00b679f824b4.html
April 12, 2017	Conference: Sustainable water management	ASU Morrison Institute for Public Policy Newsletter	
April 13, 2017	Arizona Agriculture is Primary, Not Secondary (Julie Murphree)	The Voice-Arizona Farm Bureau	http://info.azfb.org/blog/arizona-agriculture-is-primary-not-secondary
April 15, 2017	UA Judaic studies center explores water scarcity (Religion and Faith Briefs)	Arizona Daily Star	
April 25, 2017	No Time to Waste: Diverse Problems, New Climate Solutions (Meg Charlton)	VICE Impact	https://impact.vice.com/en_us/article/no-time-to-waste-diverse-problems-new-climate-solutions
May 2017	Southern Gila Water Festival	Silver Belt	https://silverbelt.com/article/water-festival-at-copper-rim
May 3, 2017	68 volunteers teach fourth-grade students about water conservation (Richard H Dyer)	Apache Junction Independent	http://apachejunctionindependent.com/news/68-volunteers-teach-fourth-grade-students-about-water-conservation/
May, 2017	An Overview of the Role of Desalination in Israel's Water Supply Portfolio	Municipal Water Leader 3(5) from Water Strategies LLC	http://waterstrategies.com/052017-international-1.html
May 7, 2017	Arizona farmers expand water conservation, crop options amid drought (Cary Blake)	Western Farm Press	http://www.westernfarmpress.com/water/arizona-farmers-expand-water-conservation-crop-options-amid-drought
May 9, 2017	Extension experts' advice for graduates	CALS Cooperative Extension Website	
May 11, 2017	Real people, affected by real-world water policy, gather to talk about dealing with it	Arizona Water News (ADWR)	https://azwater.wordpress.com/2017/05/11/real-people-affected-by-real-world-water-policy-gather-to-talk-about-dealing-with-it/
May 19, 2017	Impending global water crisis will change how you live, The Property Man (Bob Massi)	Fox Business Network	http://video.foxbusiness.com/v/5441437192001/?playlist_id=5384422954001
May 25, 2017	CAP Featured on Fox Business Network	CAP News email newsletter	
June 1, 2017	World Water Congress Report (identified in photo)	Arizona Water News (ADWR)	https://new.azwater.gov/news/articles/2017-01-06-0

June 15, 2017	Take That to the Bank: How Arizona Plans Its Water Use	UA News	https://uanews.arizona.edu/story/take-bank-how-arizona-plans-its-water-use
June 16, 2017	How Arizona plans its water use (Reprint of UA News story)	phys.org website	https://phys.org/news/2017-06-arizona.html
June 19, 2017	Interview on water banking Arroyo with Thomas Perumean	KTAR radio 92.3	https://ktar.com/arizona-news/
June 22, 2017	How Arizona plans its water use (Link to phys.org story)	Brown and Caldwell's BC Water News West	http://www.bcwaternews.com/m/west/062217.html
June 26, 2017	Raising Awareness about 'Water Banking,' Mainstay of Arizona Water Strategy	KUAZ radio 89.1 (Arizona Public Media)	https://news.azpm.org/p/news-articles/2017/6/26/113031-raising-awareness-about-water-banking-mainstay-of-arizona-water-strategy/?google_editors_picks=true
June 29, 2017	Why 'water banking' is critical to Arizona (Link to KUAZ story)	Brown and Caldwell's BC Water News West	http://www.bcwaternews.com/m/west/062917.html
July 3, 2017	Why 'water banking' is critical to Arizona (Link to KUAZ story)	Brown and Caldwell's BC Water News Top Stories	http://www.bcwaternews.com/m/weekend/2017/TOP/062517.html
July 12-18, 2017	Arizona Water Storage: Insurance at a cost (William Rockwell)	Daily Wildcat	http://www.wildcat.arizona.edu/article/2017/07/arizonas-faucet-water-storage-in-the-desert
July 26, 2017	Arizona Teachers Dive In and Learn More About STEM (Faith Schwartz)	UA News	https://uanews.arizona.edu/story/arizona-teachers-dive-and-learn-more-about-stem?utm_source=uanow&utm_medium=email&utm_campaign=
July 28, 2017	Water documentary at PB library	Beach & Bay Press	
August 1, 2017	Stanfield counselor dives in to learn more about STEM (Faith Schwartz)	Casa Grande Dispatch	http://www.pinalcentral.com/casa_grande_dispatch/area_news/stanfield-counselor-dives-in-to-learn-more-about-stem/article_5cc253c9-6b87-56bd-a8ad-28c4595cc771.html
August 2017	Turning Students Into Water Stewards (Craig Mandli)	Treatment Plant Operator	http://www.tpomag.com/editorial/2017/08/turning_students_into_water_stewards
August 2017	Arizona Water Festivals (Interview)	The Fill	http://www.budgetdumster.com/blog/arizona-project-wet/
August 2, 2017	Upgrades to the Agua Nueva Wastewater Treatment Plant and the impacts on the Santa Cruz River	Youtube	https://www.youtube.com/watch?v=8Y1KcNdZfdw&feature=youtu.be
August 2, 2017	Groundwater Galore! 1) Transboundary Aquifer Assessment Program; 2) Texas Transborder Aquifers; 3) Review; & 4) MARVI!	Waterwired	http://aquadoc.typepad.com/waterwired/2017/08/sharon-speaks-transboundary-aquifer-treats-texas-too.html?utm_source=feedburner&utm_medium=email&utm_campaign=Feed%3A+typepad%2FFdoQ+%28WaterWired%29
August 4, 2017	Campus Sustainability Spotlight: Arizona Project WET (DJ Johnson)	Budgetdumpsters.com	http://www.budgetdumster.com/blog/arizona-project-wet/
August 4, 2017	Arizona Teachers Learn about STEM, More, to Share with Students (Faith Schwartz)	UA Cooperative Extension Website	https://extension.arizona.edu/arizona-teachers-learn-about-stem-more-share-students
August 8, 2017	Tucson Water Festival Featured in August Issue of Treatment Plant Operator Magazine	NewsNet Daily Digest	
September, 2017	The Cooperative Framework for the Transboundary Aquifer Assessment Program: A Model for Collaborative Transborder Studies (Reprint from AWR)	International Water Association Update	http://www.iwra.org/wp-content/uploads/2017/09/IWRASeptNews_web-1.pdf

September 2017	Payson Water Festival	Payson Roundup	http://www.paysonroundup.com/education/fourth-graders-learn-about-water-teamwork-atwater-festival/article_9e0c0049-c227-51a9-a548-975074a2e9f1.html
September 2017	Flagstaff Water Festival	Area-Info	https://area-info.net/fourth-graders-learn-from-community-members-at-the-Flagstaff-waterfestival-on-september-14-2017
September 27, 2017	State of the Watershed Forum a Success (Ken Showers)	Eastern Arizona Courier	http://www.eacourier.com/copper_era/news/state-of-the-watershed-forum-a-success/article_0af631c2-a0b3-11e7-84b4-035f823992b8.html
October 2017	Litchfield Water Festival	West Valley View	https://www.westvalleyview.com/community/water-festival-teaches-students-the-resource-simportance/article_a6a8c12e-b383-11e7-93dd-97fd3264b6e2.html
October 2017	Verde Valley Water Festival	YouTube	https://www.youtube.com/watch?v=zELSDLiM_I
October 18, 2017	Hardscrabble Presents “A New Map of Cobre Valley”	Copper Country News	https://coppercountrynews.com/article/hardscrabble-presents-a-new-map-of-cobre-valley
October 20, 2017	Nations connect, learn at ‘Wicked Water Problems’ conference in Israel (Sharon Megdal)	Arizona Jewish Post	
October 26, 2017	‘Beyond the Mirage’ Water Documentary Wins Regional Emmy	UA News	https://uanews.arizona.edu/story/beyond-mirage-water-documentary-wins-regional-emmy
November 1, 2017	Water Policy: Challenges & Solutions - Live Blog Interview	Mrs. Green’s World, Down to Earth Weekly Segment	https://www.mrsgreensworld.com/2017/11/01/water-policy-challenges-solutions-2/
November 12, 2017	Expert panel affirms safety of Flagstaff’s reclaimed wastewater	Arizona Daily Sun	http://azdailysun.com/news/local/expert-panel-affirms-safety-of-flagstaff-s-reclaimed-wastewater/article_cf8c8867-74c1-5946-a2ec-68702b56fc4c.html
November 15, 2017	Sustaining the future of food: How UA is working toward sustainable agricultural practices	University of Arizona Daily Wildcat	http://www.wildcat.arizona.edu/article/2017/11/sustainable-ag

Section 4 - WRRC Brown Bag Seminars

Date	Title	Speaker	Presentation
January 19, 2017	Tim Thomure	Director, Tucson Water	“Agua Dulce”
February 24, 2017	Grant Davis	General Manager, Sonoma County Water Agency	“Implementing California’s Sustainable Groundwater Management Act and Other Innovative Water Solutions”
March 8, 2017	Merri Lisa Trujillo	Film Producer/Director	“Written on Water”
April 7, 2017	Alexandra Campbell-Ferrari	Executive Director, The Center for Water Security and Cooperation	“Getting to Water Security”
April 13, 2017	Adam Hutchinson	Recharge Planning Manager at Orange County Water District	“Transforming Wastewater to Drinking Water: How Two Agencies Collaborated to Build the World’s Largest Indirect Potable Reuse Project”

April 19, 2017	Candice Rupprecht	Tucson Water and Mary Allen, Pima County Waste Water Reclamation	"The Financial Benefits of Water Conservation: The Tucson Story"
April 26, 2017	Ian Pepper	Professor, Co-Director, WEST Center	"Plugging into WEST: Researchers, Industry, and Arizonans Benefit by Connecting with the UA Water and Energy Sustainable Technology Center"
May 8, 2017	Kelly Mott Lacroix, Ph.D.	Hydrologist, U.S. Forest Service	"The Role of National Forest Lands in Improving Watershed Health through the Watershed Condition Framework"
June 16, 2017	Doron Markel	Israeli Water Authority	"Preserving Lake Kinneret (the Sea of Galilee) as a Strategic Regional Water Resource in a Changing Climate"
August 29, 2017	Mark Apel	Area Extension Agent, University of Arizona Cooperative Extension	"Sustainability in the High Atlas Mountains of Morocco – Facing the Impacts of Climate Change"
September 18, 2017	Jessica Asbill-Case	Water Resources Program Manager, Bureau of Reclamation	"Grants Offered by Reclamation through the WaterSMART Program"
October 2, 2017	Clive Lipchin	Arava Institute	"TransBasin—Transboundary Water Basin Management Project"
October 9, 2017	Dave Wegner	Senior Scientific Consultant, Jacobs Engineering	"Adaptive Management in Water Resources"
October 17, 2017	Paul Brierley	Executive Director, Yuma Center of Excellence for Desert Agriculture	"Yuma Agriculture and the Yuma Center of Excellence for Desert Agriculture"
October 25, 2017	Lisa Atkins	Arizona State Land Commissioner	"State Land 101"
November 14, 2017	Andrew Craddock	Analyst, Water Supply Program, Central Arizona Groundwater Replenishment District	"YMIDD/CAGRD Pilot Rotational Following Program, Good for Business, Good Water Management"
December 6, 2017	Meghan Smart	Environmental Scientist, Arizona Department of Environmental Quality	"Camo, Hose Clamps, and Pixels: Arizona's Approach for Low-cost Intermittent Stream Monitoring"

Section 5 - WRRC Co-Sponsored Events

Date	Title	Co-Sponsors
March 20, 2017	"Voice of the Valley" film screening and panel discussion, "Water Issues in the Jordan Valley and Beyond";	Center for Middle Eastern Studies, Arizona Center for Judaic Studies, and Udall Center for Studies in Public Policy
April 21st, 2017	"Paya: The Water Story of the Paiute" film screening and panel discussion	UA School of Geography and Development, the Indigenous Peoples Law and Policy (IPLP) program, the Native American Law Student Association (NALSA), and the University of Arizona Environmental Law Society.

September 14, 2017	“Transboundary Integrative Basin Planning: Master Plans for the Kidron/Elnar and the Yarqon/Eluja”	Liora Meron, Architect; School of Natural Resources and Environment. “Transboundary Integrative Basin Planning: Master Plans for the Kidron/Elnar and the Yarqon/Eluja”
October 2, 2017,	“Water, Wastewater, and Energy Solutions for Off-grid Bedouin, Palestinian, and Jordanian Communities”,	presentation by Clive Lipchin, Director, Center for Transboundary Water Management at the Arava Institute; UA Center for Middle Eastern Studies and Arizona Center for Judaic Studies.

Section 6 - WRRC Publications (By First Author)

Diaz, K.S.; V.I. Rich; J.E. McLain, 2017, Searching for antibiotic resistance genes in a pristine arctic wetland, *Journal of Contemporary Water Research and Education*, Volume 160, pp. 40-53.

Hullinger, A.; K.E. Mott Lacroix; S.B. Megdal, 2017, Conserve2Enhance: Helping Communities Take Action for Water and the Environment, *The Solutions Journal*, Volume 8 Issue 2. Available at: <https://www.thesolutionsjournal.com/article/conservetw-enhance-helping-communities-take-action-water-environment/>

Joe, V.M.; C.M. Rock; J.E. McLain, 2017, Compost tea 101: What every organic gardener should know, Arizona Cooperative Extension Publication.

Lacroix, K.E.; E. Tapia; A. Springer, 2017, Environmental flows in the desert rivers of the United States and Mexico: Synthesis of available data and gap analysis, *Journal of Arid Environments*, Volume 140, pp. 67-78. Available at: <http://dx.doi.org/10.1016/j.jaridenv.2017.01.011> and <https://authors.elsevier.com/a/1UX24Vu7-iGNC>

McLain, J.E.; C. Gerba; and C.M. Rock, In Press, Environmental antibiotic resistance associated with land application of biosolids, *Antimicrobial Resistance in Wastewater Treatment Processes*, Keen, P., R. Fugère (Eds.) Wiley-Blackwell, Hoboken, N.J., USA.

Megdal, S.B., 2017, Book Review, *Groundwater*, Volume 55 Issue 5, pp. 701-702. Available at: <http://onlinelibrary.wiley.com/doi/10.1111/gwat.12572/full>

Megdal, S.B., 2017, Bridging Through Water, *Arizona Water Resource*, Volume 25 Issue 1, pp. 12-13. Available at: <https://wrcc.arizona.edu/bridging-through-water>

Megdal, S.B., 2017, A Spring Full of Productive Activity!, *Arizona Water Resource*, Volume 25 Issue 2, pp. 11-12. Available at: <https://wrcc.arizona.edu/public-policy-spring-full-productive-activity>

Megdal, S.B.; S. Eden; E. Shamir, 2017, Water Governance, Stakeholder Engagement, and Sustainable Water Resources Management, Editorial paper for Special Issue of the Same Title, *Water*, Volume 9 Issue 3, pp. 190-197.

Megdal, S.B.; S. Eden; E. Shamir, 2017, Water Governance, Stakeholder Engagement, and Sustainable Water Resources Management, MDPI, Basel, Switzerland, Special Issue Book.

Megdal, S.B.; A.K. Gerlak; L.Y. Huang; N. Delano; G. Varady; J.D. Petersen-Perlman, 2017, Innovative Approaches to Collaborative Groundwater Governance in the United States: Case Studies from Three High-growth Regions in the Sun Belt, *Environmental Management*, Volume 59 Issue 5, pp. 718-735. Available at: <http://link.springer.com/article/10.1007/s00267-017-0830-7>

Neyestani, M.; E. Dickenson; J.E. McLain; C.M. Rock; D. Gerrity, 2017, Solids retention time and antibiotic concentrations as selective pressures for the proliferation of antibiotic resistance during wastewater treatment, *Environmental Science: Water Research and Technology*, Volume 3, pp. 883-896.

Neyestani, M.; E. Dickenson; J.E. McLain; E. Robleto; C.M. Rock; D. Gerrity, 2017, Impact of solids retention time on trace organic compound attenuation and bacterial resistance to trimethoprim and sulfamethoxazole, *Chemosphere*, Volume 182, pp. 149-158.

Schwartz, K. L., H. Thomas-Hilburn and M.A. Stoll, 2017, Riparian Exploration STEM Unit, Arizona Project WET.

Schwartz, K. L., H. Thomas-Hilburn and M.A. Stoll, 2017, Rainwater Harvesting STEM Unit, Arizona Project WET.

Schwartz, K. L., H. Thomas-Hilburn and M.A. Stoll, 2017, School Water Audit STEM Unit, Arizona Project WET.

Silber-Coats, N.; S. Eden, 2017, Arizona Water Banking, Recharge, and Recovery, Arroyo, Water Resources Research Center, University of Arizona, Tucson, AZ, 16 pg.

Weinkam, G.; E. Tapia; S. Eden; A. Springer, 2017, Desert Flows Methodology Guidebook, Determining and Establishing Water Flows for Riparian Ecosystems in the Deserts of the U.S. and Mexico, Water Resources Research Center, University of Arizona, Tucson, Arizona, 40 pg. Available at: <https://wrcc.arizona.edu/publications/guide-books/desert-flows-methodology-guidebook>

Section 7 - WRRC Presentations (By Chronological Order)

January, 2017, Kerry L. Schwartz, Rethinking Rivers, the Water Cycle and the Human Connection: A Systems Thinking Case Study. Lecture, SWES Research Colloquium. UA Campus, Tucson, AZ.

January, 2017, Kerry L. Schwartz, Arizona Project WET's Aqua STEM Program Systems Thinking STEM Units. Presentation, Laveen School District Principals Meeting, Laveen, AZ

January 17, 2017, Grant Weinkam, Introduction to "A Guide for Landowners on the Upper Gila River". Presentation, Rancher Roundup Event with U of A Cooperative Extension, Safford, AZ.

January 23, 2017, Grant Weinkam, Contamination and Remediation: Past, Present, and Future of Soil and Water Pollution in the United States. Presentation, USDA Arid Lands Agricultural Research Center, Maricopa, AZ.

January 24, 2017, Jacob Petersen-Perlman, Hydropolitical Resilience in Transboundary River Basins. Lecture, ENR2 S495, University of Arizona, Tucson, AZ.

January 27, 2017, Jean McLain, The realities of recycled water. Is it safe and sustainable? Is it drinkable? Lecture, ENVS 596B, University of Arizona, Tucson, AZ.

February 1, 2017, Jean McLain, How to construct an effective presentation: it's not as hard as you think. Lecture, NVS696A: Topics in Soil, Water and Environmental Science, University of Arizona, Tucson, AZ.

February 1, 2017, Sharon Megdal, The WRRC and water issues in our region, Pima County Development Services Brown Bag. Presentation, Tucson, AZ.

February 5, 2017, Sharon Megdal, Beyond the Mirage and its Connection to Water Management in Israel. Presentation, Temple Emanu-El Adult Education Academy, Tucson, AZ.

February 2017, Kerry L. Schwartz, Water STEM Education for Osborn School District. Presentation, Osborn Principals Meeting, Phoenix, AZ.

February 2017, Kerry L. Schwartz, Water Resources in Tucson Arizona. Presentation, Docent Training, Tohono Chul Park, Tucson, AZ.

February 15, 2017, Jean McLain, C.M. Rock, and G. Lopez, ddPCR droplet generator, thermocycler, and plate reader. Presentation, Environment, and Energy Solutions (WEES) Funding and Equipment Opportunities, University of Arizona Water, Tucson, AZ.

February, 15, 2017, Sharon Megdal, Water, Environmental, and Energy Solutions Program (WEES) Funding and Equipment Opportunities. Speaker and Moderator, University of Arizona, Tucson, AZ.

February 15, 2017, Sharon Megdal, The WRRC and water issues in our region, Undergraduate Biology Research Program. Panelist, University of Arizona, Tucson, AZ.

February 17, 2017, Sharon Megdal, The Role of Recharge in Meeting Water Policy Objectives in Arizona USA, Briefing for water officials from Sonora, MX. Briefing, Delivered via Go-to-Meeting.

February 24, 2017, Grant Weinkam, Water Quality and Contamination Issues in Human and Environmental Systems. Lecture, Osher Lifelong Learning Institute at the University of Arizona (OLLI-UA), Green Valley, AZ

February 28, 2017, Sharon Megdal, Briefing to staff of Arizona's federal elected officials. Washington, D.C.

February 28, 2017, Sharon Megdal, Engaging in global water policy dialogues. Presentation, NIWR Annual Meeting, Washington, D.C.

February 28, 2017, Sharon Megdal, Meeting with one US Senator and one US Representative. Washington, D.C.

February 28, 2017, Sharon Megdal, Update on NIWR-UCOWR Partnership. Presentation, NIWR Annual Meeting, Washington, D.C.

March 3, 2017, Jean McLain, Water recycling 101: what every Arizonan should know as we move into our water future. Lecture, Osher Lifelong Learning (OLLI-UA) Institute at the University of Arizona, Green Valley, AZ.

March 6, 2017, Sharon Megdal, Beyond the Mirage and Water Management in Israel and the Tucson Region. Presentation, Saddlebrooke Israel Friendship Club, Saddlebrooke Community, AZ.

March 10, 2017, Sharon Megdal, Desalination in Arizona's Water Management Portfolio – An International Perspective. Panelist, Leaders Roundtable Luncheon on the Future of Desalination, ASU Kyl Center, Phoenix, AZ.

March 2017, Kerry L. Schwartz, Arizona Water Resources: Groundwater - the Hidden Part of the Hydrologic Cycle. Lecture, Osher Lifelong Learning Institute at the University of Arizona (OLLI-UA), Green Valley, AZ.

March 19-20, Jean McLain, Long-term memories and impact of the Faculty Fellowship to Israel. Presentation, Jewish National Foundation Donors Meeting, Paradise Valley, AZ.

March 20, Sharon Megdal, Water in the Jordal Valley Film. Panelist, Haury Anthropology Bldg., Tucson, AZ.

March 24, 2017, Susanna Eden, What's "Beyond the Mirage" film screening and Q&A. Speaker, Osher Lifelong Learning Institute at the University of Arizona (OLLI-UA), Green Valley, AZ.
March 29, 2017, Susanna Eden, The Water Resources & Climate Assessment Tool [WARCAT] for the Santa Cruz Active Management Area. Speaker, Santa Cruz River Research Days IX, Tucson, AZ.
March 29, 2017, Sharon Megdal, Alternatives to Permanent Fallowing of Agricultural Land: What's Feasible for Colorado River Lower Basin States? Presentation, DoubleTree - Reid Park, Tucson, AZ.
April 6, 2017, Jean McLain, EPA-approved methods for identification of E. coli to monitor water quality. Presentation, Water Monitoring Roundtable, The Center for Produce Safety, Irvine, CA.
April 9, 2017, Jacob Petersen-Perlman, Hydropolitical Resilience in Transboundary River Basins. Lecture, ENR2 S495, University of Arizona, Tucson, AZ.
April 19, 2017, Sharon Megdal, Israel's Shared Borders and Shared Waters: Water as a Bridge and a Barrier. Lecture, Arizona Center for Judaic Studies Lecture Series, University of Arizona, Tucson, AZ.
April 19, 2017, Sharon Megdal, Israel's Shared Borders and Shared Waters: Water as a Bridge and a Barrier. Panelist, Arizona Center for Judaic Studies Lecture Series, University of Arizona, Tucson, AZ.
April 24, 2017, Sharon Megdal, Lower Santa Cruz River Basin Study. Facilitator, Meeting of the External Stakeholder Group, Tucson, AZ.
April 26, 2017, Sharon Megdal, "Beyond the Mirage": A Look at Our Region's Water Management Successes and Challenges. Presentation, Tucson Rotary, Tucson, AZ.
April 28-29, 2017, Sharon Megdal, Global Freshwater Issues and Desalination. Panelist and Participant, ASU Origins Project, The Coming Water Wars...and how to avoid them, Arizona State University, Tempe, AZ.
May 5, 2017, Grant Weinkam, Water RAPIDS Program at the U of A: For a better understanding of the complexity and diversity of water challenges experienced by Arizona communities. Presentation, Arizona Water Association Annual Conference, Phoenix, AZ.
May 7, 2017, Sharon Megdal, Bridging Through Water – Israel as an Innovator in Water Management and Technology. Lecture, Gertrude and Fred Rosen Memorial Lecture, Weintraub Israel Center and Tucson Jewish Community Center, Tucson, AZ.
May 11, 2017, Sharon Megdal, International Relevance of Arizona Water Management. Presentation, HDR Arizona Municipal Utilities Leadership Institute Forum, Show Low, AZ.
May 2017, Kerry L. Schwartz, Arizona Water Resources: Groundwater - the Hidden Part of the Hydrologic Cycle. Lecture, Osher Lifelong Learning Institute at the University of Arizona (OLLI-UA), Tucson, AZ.
May 17, 2017, Sharon Megdal, Groundwater Governance and Management in the U.S. Webinar, American Water Resources Association.
May 29, 2017, Sharon Megdal, Special Session on the OECD Water Governance Initiative. Panelist, World Water Congress XVI, Cancun, MX.
May 30, 2017, Sharon Megdal, High-level panel on Shared Waters of North America. Panel Moderator, Part 3 of three-part Special Session on Shared Waters of North America, World Water Congress XVI, Cancun, Mexico.
May 30, 2017, Sharon Megdal, The Joint Cooperative Framework for the Transboundary Aquifer Assessment Program. Presentation, Part 2 of three-part Special Session on Shared Waters of North America, World Water Congress XVI, Cancun, Mexico.
May 31, 2017, Sharon Megdal, Water Policy and Governance. Session Chair and Rapporteur, Regular Session 18, World Water Congress XVI, Cancun, MX.
June 13, 2017, Sharon Megdal, Groundwater utilization trends by Central Arizona agriculture and results of state groundwater surveys. Presentation, UCOWR Annual Conference, Ft. Collins, CO.
June 13, 2017, Sharon Megdal, Opening plenary session. Moderator, UCOWR Annual Conference, Ft. Collins, CO.
June 14, 2017, Sharon Megdal, Challenges and Opportunities Associated With Two Graduate Interdisciplinary Programs at the University of Arizona. Presentation, UCOWR Annual Conference, Ft. Collins, CO.
June 14, 2017, Sharon Megdal, Challenges of Interdisciplinary Graduate and Undergraduate Programs in Water Resources. Presentation, UCOWR Annual Conference, Ft. Collins, CO.
June 14, 2014, 2017, Sharon Megdal, Luncheon plenary session. Moderator, UCOWR Annual Conference, Ft. Collins, CO.
June 14, 2017, Jacob Petersen-Perlman, Additional Dialogue on the US-Mexico Transboundary Aquifer Assessment Program: Past, present, and future. Presentation, UCOWR Annual Conference, Ft. Collins, CO.
June 22, 2017, Jean McLain, Mine spills and antibiotic resistance: what is the connection? Presentation, 2nd Annual Conference on Environmental Conditions of the Animas and San Juan Watersheds, with Emphasis on Gold King Mine and Other Mine Waste Issues, Farmington, NM.

July 25, 2017, 2017, Jean McLain, Identification of acute hepatopancreatic necrosis disease (AHPND) in black tiger shrimp (*Penaeus monodon*), Pacific white shrimp (*Penaeus vannamei*), and fresh water shrimp (*Macrobrachium rosenbergii*). Presentation, World Aquaculture Society APA 17, Kuala Lumpur, Malaysia.

July 28, 2017, Sharon Megdal, Everyone is a Water Stakeholder: A Call for Water Stewardship. Presentation, First National Leadership Women Conference, Dallas, TX.

August 1, 2017, Sharon Megdal, "Beyond the Mirage" Screening and Discussion. Speaker, hosted by the Bureau of Reclamation, Pacific Beach Public Library, San Diego, CA.

August 30, 2017, Jean McLain, How to construct an effective presentation: it's not as hard as you think. Lecture, ENV5696a: Topics in Soil, Water and Environmental Science, University of Arizona, Tucson, AZ.

September 10, 2017, Jean McLain, Agricultural Reuse. Session Moderator, University of Arizona, Tucson, AZ.

September 10, 2017, Sharon Megdal, "Beyond the Mirage" Screening and Discussion. Moderator, Cutting-Edge Solutions to Wicked Water Problems, Joint Conference of the American Water Resources Association and The Water Research Center at Tel Aviv University, Tel Aviv, Israel.

September 11, 2017, Sharon Megdal, Opening and Closing Plenary Sessions, Moderator, Cutting-Edge Solutions to Wicked Water Problems, Joint Conference of the American Water Resources Association and The Water Research Center at Tel Aviv University, Tel Aviv, Israel.

September 11, 2017, Sharon Megdal, Reuse of Grey Water for Non-domestic Uses in Jordan. Presentation, Cutting-Edge Solutions to Wicked Water Problems, Joint Conference of the American Water Resources Association and The Water Research Center at Tel Aviv University, Tel Aviv, Israel.

September 11, 2017, Sharon Megdal, The Cooperative Framework for the U.S.-Mexico Transboundary Aquifer Assessment Program: A Model for Collaborative Transborder Studies. Presentation, Cutting-Edge Solutions to Wicked Water Problems, Joint conference of the American Water Resources Association and The Water Research Center at Tel Aviv University, Tel Aviv, Israel.

September 11, 2017, Jacob Petersen-Perlman, Subsidiarity in International Water Resources Cooperation: A Path Forward? Speaker, 2017 International Conference: Cutting-Edge Solutions to Wicked Water Problems, Tel Aviv University, Tel Aviv, Israel.

September 12, 2017, Susanna Eden, Water Harvesting Assessment Toolbox: Project, Product, and Lessons Learned. Presentation, 14th Biennial Conference of Science and Management on the Colorado Plateau and Southwest Region, Flagstaff, AZ.

September 12, 2017, Jean McLain, Teaching harvested rainwater microbiology in Arizona communities: lessons learned. Presentation, 14th Biennial Conference of Science and Management on the Colorado Plateau and Southwest Region, Flagstaff, AZ.

September 12, 2017, Sharon Megdal, From scarcity to abundance: New perceptions about water value. Panelist, WATEC 2017, Tel Aviv, Israel.

September 2017, Kerry L. Schwartz, Project WET USA Network STEM Strategy. Presentation, Project WET Foundation Board Retreat, Bozeman, MT.

September 2017, Kerry L. Schwartz, Arizona Project WET Programs: Partnering with Tucson Water. Presentation, APW-Tucson Annual Meeting, Tucson, AZ.

September 24, 2017, Susanna Eden, Water Harvesting Basics. Presentation, Cooperative Extension Water Resources Information Workshop, Miami, AZ.

September 24, 2017, Susanna Eden, Water Resources Assessment Report for Cobre Valley, AZ. Co-Presenter, Cooperative Extension Water Resources Information Workshop, Miami, AZ.

September 25, 2017, Susanna Eden, Water Resources Assessment Report for Cobre Valley, AZ. Co-Presenter, Miami Town Council Meeting, Miami, AZ.

September 29, 2017, Jacob Petersen-Perlman, State-Level Groundwater Governance and Management in the United States: Results of a survey funded by the Ground Water Research and Education Foundation (GWREF), Webinar.

October 2, 2017, Jean McLain, Are we spreading antibiotic resistance in the environment with recycled wastewater? Separating the knowns from the unknowns. Presentation, WEFTEC (Water Environment Federation Annual Conference), Chicago, IL.

October 2017, Kerry L. Schwartz, Best Instructional Practices for Activating Learning. Presentation, Water Ways: Smithsonian Institute's Rural Water Exhibit Development Initiative, Arizona Humanities Council, Amerind Foundation, AZ.

October 2017, Kerry L. Schwartz, Best Instructional Practices for STEM Education. Presentation, STEM Community of Practice - Chandler, Chandler Maker Space, Chandler, AZ.

October 19, 2017, Jacob-Petersen-Perlman, Groundwater Quality Management and Governance at the State Level, Webinar.

October 20, 2017, Sharon Megdal, Wicked Water Problems and the International Relevance of Arizona Water Management. Presentation, Water Issues in Southern Arizona forum, Southern Arizona Water Users Association (SAWUA), Tucson, AZ.

October 25, 2017, Jacob Petersen-Perlman, The Transboundary Aquifer Assessment Program - Assessing Arizona's Shared Groundwater Resources. Presentation, Arizona Planning Association Meeting, Fort McDowell, AZ.
November 6, 2017, Sharon Megdal, Perspectives on Water Scarcity and Abundance. Speaker, Lightning Plenary Session, American Water Resources Association Annual Conference, Portland, OR.
November 8, 2017, Sharon Megdal, Developing meaningful partnerships at home and abroad: The importance of networking, communicating, and volunteering. Presentation, American Water Resources Association Annual Conference, Portland, OR.
November 2017, Kerry L. Schwartz, A Model for Activating Learning at a Wetland/Riparian Area through Corporate Mentorship. Presentation, Wildlife Habitat Council Annual Conference, Baltimore, MD
November 30, 2017, Sharon Megdal, Update on the Transboundary Aquifer Assessment Program. Speaker, Environment & Water Committee, Arizona-Mexico Commission, Puerto Peñasco, Sonora, MX.
December 10, 2017, Sharon Megdal, Water as a Bridge and a Barrier to Resolving Israeli-Palestinian Conflicts. Presentation, Harvard Club of Tucson, Tucson, AZ.

Section 8 - Arizona Project Wet Presentations

Date	Title	Presenter/ Contact	Location / School	Attendance (if available)
January 3, 2017	Mystery Box Presentation	Sara Krznarich	Verrado Middle School, Buckeye, AZ	120
January 11, 2017	Mystery Box Presentation	Sara Krznarich	Copper King School, Phoenix, AZ	55
January 12, 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Dietz K-8, Tucson, AZ	58
January 13, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Robison Elementary , Tucson, AZ	56
January 17, 2017	Meyond the Mirage Adult Presentation	Julie Hasty	Centerra Mirage STEM Academy, Goodyear, AZ	18
January 19, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Hudlow Elementary, Tucson, AZ	50
January 23, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Borman Elementary, Tucson, AZ	75
January 24, 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Dodge Middle School, Tucson, AZ	130
January 25, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	CE Rose Elementary , Tucson, AZ	117
January 26, 2017	Anthem Annual STEAM Night, GW Model Presentation	Michelle Ly	Anthem School, Anthem, AZ	87
January 27, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	A. M. Ochoa Elementary School, Tucson, AZ	27
January 27, 2017	6th Grade Groundwater Presentation	Barbara Owens	Sunnyslope MS, Phoenix, AZ	90
January 28, 2017	Connect to STEM 2017, Incredible Journey Presentation	Michelle Ly	UofA School of Medicine, Phoenix, AZ	173
January 30, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Laguna Elementary, Tucson, AZ	50
January 30, 2017	Riparian Presentation	Barbara Owens	Sunnyslope MS, Phoenix, AZ	90
January 30, 2017	Riparian Presentation	Sara Krznarich	Verrado Middle School, Buckeye, AZ	128
January 30, 2017	Riparian Presentation	Barbara Owens	Sunnyslope School, Phoenix, AZ	90

January 30, 2017	Riparian Presentation	Sara Krznarich	Verrado Middle School, Buckeye, AZ	128
January 31, 2017	Riparian Presentation	Sara Krznarich	Verrado Middle School, Buckeye, AZ	128
January 31, 2017	Riparian Presentation	Sara Krznarich	Verrado Middle School, Buckeye, AZ	128
February 1, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Laguna Elementary , Tucson, AZ	59
February 2, 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Magee Middle School, Tucson, AZ	171
February 6, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Ochoa Elementary , Tucson, AZ	35
February 7, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Peter Howell Elementary, Tucson, AZ	54
February 9, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Roadrunner Elementary, Tucson, AZ	61
February 11, 2017	Casa Grande Museum Water	Chuck Dugan	Casa Grande Museum, Casa Grande, AZ	4
February 12, 2017	Cottonwood Elem In Class Visit	Chuck Dugan	Cottonwood Elementary, Casa Grande, AZ	25
February 13, 2017	High School Groundwater Presentation	Betsy Wilkening	CDO High School, Tucson, AZ	90
February 13, 2017	Cottonwood Elem In Class Visit	Chuck Dugan	Cottonwood Elementary, Casa Grande, AZ	25
February 14, 2017	Cottonwood Elem In Class Visit	Chuck Dugan	Cottonwood Elementary, Casa Grande, AZ	25
February 15, 2017	Cholla Elem In Class Visit	Chuck Dugan	Cholla Elementary, Casa Grande, AZ	25
February 16, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Hendricks Elementary, Tucson, AZ	55
February 16, 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Walter Douglas Elementary, Tucson, AZ	56
February 16, 2017	Cholla Elem In Class Visit	Chuck Dugan	Cholla Elementary, Casa Grande, AZ	25
February 17, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Homer Davis Elementary, Tucson, AZ	61
February 17, 2017	Cholla Elem In Class Visit	Chuck Dugan	Cholla Elementary, Casa Grande, AZ	25
February 18, 2017	Mesquite Elem In Class Visit	Chuck Dugan	Mesquite Elementary, Casa Grande, AZ	25
February 19, 2017	Mesquite Elem In Class Visit	Chuck Dugan	Mesquite Elementary, Casa Grande, AZ	25
February 20, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Homer Davis Elementary School , Tucson, AZ	67
February 20, 2017	Mesquite Elem In Class Visit	Chuck Dugan	Mesquite Elementary, Casa Grande, AZ	25
February 21, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Sam Hughes Elementary, Tucson, AZ	49
February 21, 2017	Desert Willow Elem In Class Visit	Chuck Dugan	Desert Willow Elementary, Casa Grande, AZ	25
February 22, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Peter Howell Elementary , Tucson, AZ	57

February 22, 2017	Desert Willow Elem In Class Visit	Chuck Dugan	Desert Willow Elementary, Casa Grande, AZ	25
February 23, 2017	Desert Willow Elem In Class Visit	Chuck Dugan	Desert Willow Elementary, Casa Grande, AZ	15
February 24, 2017	Gavilan Peak Science Expo, Watershed Model Presentation	Michelle Ly	Gavilan Peak School, Anthem, AZ	224
February 24, 2017	Desert Willow Elem In Class Visit	Chuck Dugan	Desert Willow Elementary, Casa Grande, AZ	25
February 25, 2017	Mesa Sci-Tech Expo, Watershed Model Presentation	Michelle Ly	Skyline High School, Mesa, AZ	183
February 25, 2017	Saguaro Elem In Class Visit	Chuck Dugan	Saguaro Elementary, Casa Grande, AZ	25
February 26, 2017	Saguaro Elem In Class Visit	Chuck Dugan	Saguaro Elementary, Casa Grande, AZ	25
February 27, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Hendricks Elementary , Tucson, AZ	63
February 27, 2017	Mystery Box Presentation	Barbara Owens	Sunnyslope MS, Phoenix, AZ	90
February 27, 2017	Saguaro Elem In Class Visit	Chuck Dugan	Saguaro Elementary, Casa Grande, AZ	25
February 28, 2017	Ironwood Elem In Class Visit	Chuck Dugan	Ironwood Elementary, Casa Grande, AZ	25
March 1, 2017	Ironwood Elem In Class Visit	Chuck Dugan	Ironwood Elementary, Casa Grande, AZ	25
March 2, 2017	STEM Night, Incredible Journey Presentation	Michelle Ly	Bridges Elementary, Gilbert, AZ	78
March 2, 2017	Ironwood Elem In Class Visit	Chuck Dugan	Ironwood Elementary, Casa Grande, AZ	25
March 2, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Craycroft Elementary, Tucson, AZ	122
March 3, 2017	Evergreen Elem In Class Visit	Chuck Dugan	Evergreen Elementary, Casa Grande, AZ	25
March 4, 2017	Roosevelt STEAM Festival, GW Model Presentation	Michelle Ly	South Mountain Community College, Phoenix, AZ	144
March 4, 2017	Evergreen Elem In Class Visit	Chuck Dugan	Evergreen Elementary, Casa Grande, AZ	25
March 5, 2017	Evergreen Elem In Class Visit	Chuck Dugan	Evergreen Elementary, Casa Grande, AZ	25
March 6, 2017	Palo Verde Elem In Class Visit	Chuck Dugan	Palo Verde Elementary, Casa Grande, AZ	25
March 7, 2017	Palo Verde Elem In Class Visit	Chuck Dugan	Palo Verde Elementary, Casa Grande, AZ	25
March 7, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Cavett Elementary, Tucson, AZ	33
March 8, 2017	Palo Verde Elem In Class Visit	Chuck Dugan	Palo Verde Elementary, Casa Grande, AZ	25
March 8, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Sam Hughes , Tucson, AZ	55
March 9, 2017	Palo Verde Elem In Class Visit	Chuck Dugan	Palo Verde Elementary, Casa Grande, AZ	12
March 10, 2017	McCartney Ranch Elem In Class Visit	Chuck Dugan	McCartney Ranch Elementary, Casa Grande, AZ	25

March 10, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Craycroft Day 1 , Tucson, AZ	87
March 11, 2017	McCartney Ranch Elem In Class Visit	Chuck Dugan	McCartney Ranch Elementary, Casa Grande, AZ	25
March 12, 2017	McCartney Ranch Elem In Class Visit	Chuck Dugan	McCartney Ranch Elementary, Casa Grande, AZ	25
March 13, 2017	McCartney Ranch Elem In Class Visit	Chuck Dugan	McCartney Ranch Elementary, Casa Grande, AZ	25
March 13, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Cavett Elementary , Tucson, AZ	37
March 14, 2017	McCartney Ranch Elem In Class Visit	Chuck Dugan	McCartney Ranch Elementary, Casa Grande, AZ	25
March 14, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Anna Henry Elemenatary School, Tucson, AZ	54
March 14, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Walter Douglas Elementary, Tucson, AZ	70
March 16, 2017	Rainwater Harvesting Activity	Sara Krznarich	Royal Palm School, Phoenix, AZ	78
March 16, 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Gridley Middle school, Tucson, AZ	122
March 17, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Walter Douglas Elementary , Tucson, AZ	84
March 21, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Rio Vista Elementary, Tucson, AZ	83
March 21, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Castlehill Country Day School, Tucson, AZ	13
March 22, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Rio Vista Elementary , Tucson, AZ	79
March 23, 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Castlehill Country Day School, Tucson, AZ	4
March 24, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Homeschool , Tucson, AZ	46
March 25, 2017	UofA Cooperative Extension Office Spring Fling, Watershed & Branching out Presentation	Michelle Ly	Phoenix, AZ	48
March 27, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Castle Hill Country Day School , Tucson, AZ	18
March 28, 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Rivera Elementary, Tucson, AZ	80
March 29, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	St Michael's, Tucson, AZ	36
March 30, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Roskruge K-8, Tucson, AZ	42
April 3, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Craycroft Day 2 , Tucson, AZ	61
April 4, 2017	Riparian Presentation	Barbara Owens	Copper Creek Elementary, Glendale, AZ	60
April 6, 2017	Riparian Presentation	Barbara Owens	Copper Creek Elementary, Glendale, AZ	60
April 6, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Meyers Ganoung Elementary, Tucson, AZ	63
April 7, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Myers-Ganoung , Tucson, AZ	81

April 10, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Roadrunner , Tucson, AZ	65
April 11, 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Copper Point, Tucson, AZ	21
April 17, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Warren Elementary , Tucson, AZ	44
April 18, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Soleng Tom Elementary, Tucson, AZ	64
April 19, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Soleng Tom Elementary , Tucson, AZ	88
April 20, 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Doolen Middle School, Tucson, AZ	79
April 21, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Henry Elementary , Tucson, AZ	72
April 26, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Borman Elementary, Tucson, AZ	78
April 27, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Vesey Elementary, Tucson, AZ	115
May 1, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Hudlow Elementary, Tucson, AZ	60
May 5, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Vesey #1 Elementary, Tucson, AZ	83
May 9, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Wheeler Elementary, Tucson, AZ	61
May 12, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Vesey #2 Elementary, Tucson, AZ	69
May 15, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Wheeler Elementary, Tucson, AZ	80
May 17, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	St. Michael's Elementary, Tucson, AZ	48
May 19, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Roskruge Elementary, Tucson, AZ	53
May 22, 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Roskruge K-8 School, Tucson, AZ	125
August 31, 2017	Arizona SciTech Festival, Groundwater Presentation	Sara Krznarich, Julie Hasty	Mesa Arts Center, Mesa, AZ	450
September 5, 2017	Groundwater Flow Model	Sandra Hurlbut	Copper Trails E.S, Avondale	140
September 12 2017	Middle School Groundwater Presentation	Betsy Wilkening	Valencia Middle School, Tucson, AZ	140
September 12 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Valencia Middle School, Tucson, AZ	140
September 14 2017	Groundwater Flow Model	Sandra Hurlbut	Desert Mirage E.S. Glendale	70
September 14 2017	Middle School Groundwater Presentation	Betsy Wilkening	Paulo Freire Freedom School, Tucson, AZ	23
September 14 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Paulo Freire Freedom School, Tucson, AZ	23
September 15 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Agua Caliente Elementary, Tucson, AZ	16
September 18 2017	Rainwater Harvesting Activity	Sandra Hurlbut	Copper Trails E.S, Avondale	140

September 19 2017	Groundwater Flow Model	Sandra Hurlbut	Canyon Valley H.S. Mesa	85
September 19 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Highland Free School, Tucson, AZ	21
September 19 2017	Other HS Groundwater Presentation	Betsy Wilkening	Flowing Wells High School, Tucson, AZ	134
September 20 2017	Water in the Environment	Sandra Hurlbut	Sunset Heights E.S. - Peoria	124
September 20 2017	Riparian Presentation	Sandra Hurlbut	Sunset Hieghts	124
September 21 2017	Groundwater Flow Model	Sandra Hurlbut	Orangewood E.S. -Phoenix	36
September 21 2017	Water in the Environment	Sandra Hurlbut	Orangewood E.S. -Phoenix	36
September 21 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Van Buskirk Elementary, Tucson, AZ	52
September 21 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Miller Elementary School, Tucson, AZ	101
September 21 2017	Riparian Presentation	Sandra Hurlbut	Orangewood	36
September 27 2017	Groundwater Flow Model	Sandra Hurlbut	Verrado Middle School, Buckeye, AZ	136
September 27 2017	Middle School Groundwater Presentation	Betsy Wilkening	Miles Exploratory Learning Center, Tucson, AZ	95
September 27 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Miles Exploratory Learning Center, Tucson, AZ	95
September 28 2017	Groundwater Flow Model	Sandra Hurlbut	Verrado Middle School, Buckeye, AZ	128
September 29 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Van Buskirk Elementary, Tucson, AZ	59
October 2, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Miller Elementary School, Tucson, AZ	110
October 5, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Manzo Elementary, Tucson, AZ	37
October 5, 2017	Middle School Groundwater Presentation	Betsy Wilkening	Dodge Middle School, Tucson, AZ	140
October 5, 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Dodge Middle School, Tucson, AZ	140
October 10, 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Laguna Elementary, Tucson, AZ	50
October 17, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Banks elementary, Tucson, AZ	54
October 19, 2017	Groundwater Flow Model	Sandra Hurlbut	Sunnyslope	81
October 23, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Vesey Elementary Day 1, Tucson, AZ	67
October 23, 2017	Riparian Presentation	Sandra Hurlbut	Sunnyslope	99
October 24, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Robins Elementary, Tucson, AZ	63
October 24, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Tully Elementary, Tucson, AZ	50

October 24, 2017	Riparian Presentation	Sandra Hurlbut	Dysart High	150
October 26, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Vesey Elementary Day 2, Tucson, AZ	61
October 27, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Hollinger K-8, Tucson, AZ	59
November 3, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Adventure School, Tucson, AZ	20
November 3, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Maxwell K-8, Tucson, AZ	52
November 6, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Vesey Elementary day 1, Tucson, AZ	88
November 7, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Vesey Elementary day 2, Tucson, AZ	68
November 7, 2017	Groundwater Flow Model	Sandra Hurlbut	Lone Mountain	35
November 8, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Tully Elementary, Tucson, AZ	61
November 9, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Manzo Elementary, Tucson, AZ	60
November 13, 2017	Groundwater Flow Model	Sandra Hurlbut	Liberty Traditional	23
November 13, 2017	Groundwater Flow Model	Sandra Hurlbut	Liberty Traditional	22
November 14, 2017	Mystery Box Presentation	Sandra Hurlbut	Verrado Middle School, Buckeye, AZ	128
November 15, 2017	Mystery Box Presentation	Sandra Hurlbut	Verrado Middle School, Buckeye, AZ	132
November 20, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Robins K-8 , Tucson, AZ	77
November 21, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Erickson Elementary, Tucson, AZ	54
November 21, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Henry Elementary, Tucson, AZ	67
November 22, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Safford K-8 Magnet School, Tucson, AZ	33
November 27, 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Utterback Magnet Middle School, Tucson, AZ	90
November 28, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Hollinger K-8 , Tucson, AZ	77
November 29, 2017	Groundwater Flow Model	Sandra Hurlbut	Copper Creek E.S.	56
November 30, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Maxwell K-8, Tucson, AZ	75
November 30, 2017	Groundwater Flow Model	Sandra Hurlbut	Copper Creek E.S.	54
December 4, 2017	Groundwater Flow Model	Sandra Hurlbut	Canyon Valley	69
December 1, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Sam Hughes Elementary , Tucson, AZ	52
December 5, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Fruchthendler Elementary , Tucson, AZ	50
December 5, 2017	3rd Grade Groundwater Presentation	Betsy Wilkening	Kellond Elementary , Tucson, AZ	80

December 8, 2017	6th Grade Groundwater Presentation	Betsy Wilkening	Walter Douglas Elementary , Tucson, AZ	82
December 1, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Banks Elementary , Tucson, AZ	62
December 4, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Henry Elementary , Tucson, AZ	90
December 6, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Kellond Elementary , Tucson, AZ	93
December 11, 2017	Sweetwater Wetlands Water Festival	Betsy Wilkening	Erickson Elementary , Tucson, AZ	59
December 18, 2018	Sweetwater Wetlands Water Festival	Betsy Wilkening	Safford Elementary , Tucson, AZ	47
December 20, 2018	3rd Grade Groundwater Presentation	Betsy Wilkening	Sewell Elementary, Tucson, AZ	59

Section 9 - Arizona Project Wet Events

Date	Title	Presenter/Contact	Location / School	Attendance (if available)
January 6, 2017	Amerischools Mystery Boc	Betsy Wilkening	1150 N Country Club Rd, Tucson, AZ 85716	24
January 10, 2017	Indoor Wchool Water Audit	Julie Hasty	Copper Creek School, Glendale, AZ	120
January 11, 2017	SWWL Boy Scout Troop 206 - Wetland Tour	Betsy Wilkening	2511 W Sweetwater Dr, Tucson, AZ 85745	11
January 13, 2017	Water Scene Investigation	Betsy Wilkening	Basis Tucson North, Tucson, AZ	31
January 13, 2017	Gilbert Water Scene Investigation	Pam Justice	Bridges Elementary, Gilbert, AZ	65
January 13, 2017	Indoor Wchool Water Audit	Sara Krznarich	Copper King School, Phoenix, AZ	55
January 17, 2017	Water Scene Investigation	Betsy Wilkening	Khalsa Montessori, Tucson, AZ	25
January 17, 2017	Gilbert Water Scene Investigation	Pam Justice	Challenger Basic School, Gilbert, AZ	34
January 17, 2017	Gilbert Water Scene Investigation	Pam Justice	Challenger Basic School, Gilbert, AZ	34
January 18, 2017	Living River Field Trip	Betsy Wilkening	7548 N Silverbell Rd, Tucson, AZ 85743	75
January 18, 2017	Expanding your Horizons - Sahuarita MS	Betsy Wilkening	350 W Sahuarita Rd, Sahuarita, AZ 85629	22
January 19, 2017	STEM Expo: Senita Valley	Betsy Wilkening	10750 E Bilby Rd, Tucson, AZ 85747	204
January 19, 2017	Gilbert Water Scene Investigation	Pam Justice	Islands Elementary, Gilbert, AZ	21
January 23, 2017	Gilbert Water Scene Investigation	Pam Justice	Higley Traditional Acad, Gilbert, AZ	97
January 26, 2017	Ted Walker Youth Day, Old Tucson	Betsy Wilkening	201 Kinney Rd, Tucson, AZ 85735	784
January 27, 2017	Gilbert Water Scene Investigation	Pam Justice	Power Ranch Elementary Gilbert, AZ	79

January 28, 2017	Expanding Your Horizon, Amphi Middle School	Betsy Wilkening	315 E Prince Rd, Tucson, AZ 85705	73
January 30, 2017	Water Scene Investigation	Betsy Wilkening	CDO High School, Tucson, AZ	75
January 31, 2017	Pump It Up- L. W. Cross Middle School	Betsy Wilkening	1000 W Chapala Dr, Tucson, AZ 85704	31
January 31, 2017	STEM Night at Walter Douglas	Betsy Wilkening	3302 N Flowing Wells Rd, Tucson, AZ 85705	57
February 2, 2017	Riparian Field Day (Copper King)	Sara Krznarich	Rio Salado Riparian Area, Phoenix, AZ	44
February 3, 2017	Discovery Program Field Trip	Betsy Wilkening	Amphi High School, Tucson, AZ	25
February 4, 2017	SciTech Festival at the Children's Museum	Betsy Wilkening	200 S 6th Ave, Tucson, AZ 85701	545
February 7, 2017	Pump it Up: Cross MS	Betsy Wilkening	1000 W Chapala Dr, Tucson, AZ 85704	31
February 8, 2017	Discovery Program Field Trip	Betsy Wilkening	Amphi High School, Tucson, AZ	41
February 8, 2017	Peoria Water Festival	Sara Krznarich	Peoria, AZ	913
February 10, 2017	Riparian Field Day (Sunnyslope)	Barbara Owens	Rio Salado Riparian Area, Phoenix, AZ	124
February 10, 2017	Pump It Up! Day 1: Walter Douglas Elementary	Betsy Wilkening	3302 N Flowing Wells Rd, Tucson, AZ 85705	88
February 13, 2017	AOP Water Treatment Facility Tour	Betsy Wilkening	1102 W Irvington Rd, Tucson, AZ 85706	20
February 14, 2017	Irrigation Audit	Betsy Wilkening	CDO High School, Tucson, AZ	62
February 14, 2017	Irrigation Audit	Betsy Wilkening	CDO High School , Tucson, AZ	62
February 15, 2017	Tucson Water -AOP Water Treatment Facility Tour	Betsy Wilkening	1103 W Irvington Rd, Tucson, AZ 85706	12
February 15, 2017	Irrigation Audit	Betsy Wilkening	CDO High School, Tucson, AZ	27
February 15, 2017	Irrigation Audit	Betsy Wilkening	CDO High School , Tucson, AZ	27
February 16, 2017	AOP Field Trip	Betsy Wilkening	1104 W Irvington Rd, Tucson, AZ 85706	17
February 16, 2017	Scitech STEMtacular Festival at Sahuarita Middle School	Betsy Wilkening	350 W Sahuarita Rd, Sahuarita, AZ 85629	645
February 16, 2017	Casa Grande Water Festival	Chuck Dugan	Casa Grande, AZ	1019
February 16, 2017	Casa Grande Water Festival	Chuck Dugan	Casa Grande, AZ	994
February 17, 2017	Rainwater Harvesting Activity	Barbara Owens	Sunnyslope MS, Phoenix, AZ	90
February 18, 2017	Engineering Event at Park Mall	Betsy Wilkening	5870 E Broadway Blvd, Tucson, AZ 85711	118
February 21, 2017	Rainwater Harvesting Activity	Barbara Owens	Orangewood Elementary, Phoenix, AZ	32
February 23, 2017	Lake Havasu Water Festival	Pam Justice	Lake Havasu, AZ	545
February 28, 2017	San Tan Valley Water Festival	Julie Hasty	San Tan, AZ	91

March 3, 2017	Sahuarita/Green Valley Water Festival	Barbara Owens	Sahuarita, AZ	681
March 4, 2017	Tucson Meet your Birds	Betsy Wilkening	2511 W Sweetwater Dr, Tucson, AZ 85745	50
March 8, 2017	Gilbert Water Festival	Julie Hasty	Gilbert, AZ	1025
March 9, 2017	AOP Tour	Betsy Wilkening	1104 W Irvington Rd, Tucson, AZ 85706	17
March 9, 2017	Water Scene Investigation	Betsy Wilkening	Thornsdale Elementary School, Tucson, AZ	21
March 9, 2017	Discovery Program Field Trip	Betsy Wilkening	Rivera Elementary, Tucson, AZ	76
March 9, 2017	Gilbert Water Festival	Julie Hasty	Gilbert, AZ	1026
March 10, 2017	Career Day at Challenger Middle School	Betsy Wilkening	100 E Elvira Rd, Tucson, AZ 85756	42
March 10, 2017	AOP Tour	Betsy Wilkening	1104 W Irvington Rd, Tucson, AZ 85706	8
March 11, 2017	Tucson Festival of the Books	Betsy Wilkening	The University of Arizona, 1601 E University Blvd, Tucson, AZ 85719	1177
March 12, 2017	Tucson Festival of Books, Day 2	Betsy Wilkening	The University of Arizona, 1601 E University Blvd, Tucson, AZ 85720	870
March 14, 2017	Littleton Water Festival	Pam Justice	Avondale, AZ	738
March 15, 2017	Indoor Wchool Water Audit	Barbara Owens	Sunnyslope School, Phoenix, AZ	75
March 20, 2017	Pump it Up - Walter Douglas Day 2	Betsy Wilkening	3302 N Flowing Wells Rd, Tucson, AZ 85705	91
March 21, 2017	Brett Tarver Water Festival	Pam Justice	Phoenix, AZ	320
March 22, 2017	Riparian Field Day (Verrado)	Sara Krznarich	Hassayampa River Preserve, Wickenburg, AZ	166
March 23, 2017	Donaldson STEM Night	Betsy Wilkening	2040 W Omar Dr, Tucson, AZ 85704	132
March 23, 2017	Riparian Field Day (Verrado)	Sara Krznarich	Hassayampa River Preserve, Wickenburg, AZ	169
March 24, 2017	Riparian Field Day (Copper Trails)	Sara Krznarich	Hassayampa River Preserve, Wickenburg, AZ	131
March 26, 2017	Hebrew Academy's STEAM Festival	Betsy Wilkening	3888 E River Rd, Tucson, AZ 85718	268
March 31, 2017	Tucson/Amphi Water Festival	Barbara Owens	Tucson, AZ	929
March 31, 2017	Future Innovator SARSEF Fair	Betsy Wilkening	260 S Church Ave, Tucson, AZ 85701	120
April 8, 2017	Living River Celebration at Wheeler Taft Library	Betsy Wilkening	7800 N Schisler Dr, Tucson, AZ 85743	130
April 12, 2017	Bathroom Faucet - Audit	Betsy Wilkening	Tortolita Middle School, Tucson, AZ	91

April 13, 2017	Discovery Program Field Trip	Betsy Wilkening	Copper Point Elementary, Tucson, AZ	27
April 14, 2017	Bathroom Faucet - Audit	Betsy Wilkening	Tortolita Middle School, Tucson, AZ	30
April 18, 2017	Bathroom Faucet - Calculations	Betsy Wilkening	Tortolita Middle School, Tucson, AZ	88
April 19, 2017	Chandler Water Scene Investigation	Pam Justice	Anderson Jr High, Chandler, AZ	118
April 20, 2017	Math/Science Night Lemans Academy of Excellence	Betsy Wilkening	7720 N. Silverbell Rd. Tucson, AZ 85743	219
April 20, 2017	Geico Earth Day	Betsy Wilkening	GEICO Insurance Agent, 3255 E Speedway Blvd, Tucson, AZ 85716	321
April 22, 2017	Biosphere 2: earth day Celebration	Betsy Wilkening	32540 S Biosphere Rd, Oracle, AZ 85739	128
April 24, 2017	Bathroom Faucet - Audit	Betsy Wilkening	Tucson Magnet High School , Tucson, AZ	78
April 24, 2017	Bathroom Faucet - Audit	Betsy Wilkening	Tucson Magnet High School , Tucson, AZ	78
April 25, 2017	Water Scene Investigation	Betsy Wilkening	Doolen Middle School, Tucson, AZ	70
April 27, 2017	Apache Junction Water Festival	Chuck Dugan	Apache Junction, AZ	466
April 27, 2017	Bathroom Faucet - Audit	Betsy Wilkening	Sunnyside High School, Tucson, AZ	162
April 28, 2017	Robinson's K8 Earth Day Carnival	Betsy Wilkening	2745 E 18th St, Tucson, AZ 85716	110
April 28, 2017	Water Scene Investigation	Betsy Wilkening	Tucson High School, Tucson, AZ	59
May 1, 2017	Pump It Up with Coronado MS - UA Mall	Betsy Wilkening	3401 E Wilds Rd, Tucson, AZ 85739	34
May 2, 2017	Pump it Up - Day 1: Amphi HS	Betsy Wilkening	125 W Yavapai Rd, Tucson, AZ 85705	122
May 3, 2017	Tucson Water AOP Water Treatment Facility Tour	Betsy Wilkening	1104 W Irvington Rd, Tucson, AZ 85706	15
May 3, 2017	Bathroom Faucet - Audit	Betsy Wilkening	Mansfeld Middle School, Tucson, AZ	61
May 4, 2017	Pump it Up - Day 2 - Amphi HS	Betsy Wilkening	125 W Yavapai Rd, Tucson, AZ 85705	123
May 4, 2017	Southern Gila County Water Festival	Sara Krznarich	Southern Gila County, AZ	266
May 5, 2017	AOP Plant Tour - Sunnyside	Betsy Wilkening	1104 W Irvington Rd, Tucson, AZ 85706	59
May 8, 2017	Discovery Program Field Trip	Betsy Wilkening	Gridley Middle School, Tucson, AZ	55
May 10, 2017	Discovery Program Field Trip	Betsy Wilkening	Gridley Middle School, Tucson, AZ	55
May 16, 2017	Bathroom Faucet - Audit	Betsy Wilkening	Mansfeld Middle School , Tucson, AZ	30
May 22, 2017	Santa Rita High School Eagle Jam	Betsy Wilkening	3951 S Pantano Rd, Tucson, AZ 85730	67

June 21, 2017	STEM Lesson: Kindercare	Betsy Wilkening	8425 E Old Spanish Trail, Tucson, AZ 85710	11
July 6, 2017	Sacaton Water Festival	Sara Krznarich	Sacaton, AZ	121
July 6, 2017	Watershed: Flandrau Summer Camp	Betsy Wilkening	1601 E University Blvd, Tucson, AZ 85719	21
July 15, 2017	Ward 4 Back to School Bash	Betsy Wilkening	8123 E Poinciana Dr, Tucson, AZ 85730	654
July 23, 2017	STEM Sunday - Children's Museum	Betsy Wilkening	200 S 6th Ave, Tucson, AZ 85701	39
July 28, 2017	NW YMCA Summer Camp	Betsy Wilkening	7770 N Shannon Rd, Tucson, AZ 85741	91
July 29, 2017	Ready Set School Event: Santa Rosa Neighborhood Event	Betsy Wilkening	1080 S 10th Ave, Tucson, AZ 85713	210
August 13, 2017	STEM Sunday - Children's Museum	Betsy Wilkening	200 S 6th Ave, Tucson, AZ 85701	27
August 19, 2017	ASDM Teacher Night	Betsy Wilkening	2021 N Kinney Rd, Tucson, AZ 85743	152
September 8, 2017	Bathroom Faucet - Audit	Betsy Wilkening	Butterfield Elementary, Tucson, AZ	85
September 12, 2017	Discovery Program Field Trip	Betsy Wilkening	Florence HS, Florence, AZ	32
September 14, 2017	Flagstaff Water Festival	Sara Krznarich	Flagstaff, AZ	1089
September 14-15, 2017	Gilbert Water Scene Investigation	Pam Justice	San Tan Elementary	55
September 18, 2017	Rainwater Harvesting Activity	Sandra Hurlbut	Copper Trails	
September 22, 2017	Science Night at Ventana Vista	Betsy Wilkening	6085 N Kolb Rd, Tucson, AZ 85750	112
September 22, 2017	WSI-Introductory Lesson	Betsy Wilkening	Butterfield Elementary, Tucson, AZ	73
September 22, 2017	Maricopa WF Volunteer Training	Chuck Dugan	Global Water-Maricopa	6
September 25, 2017	Gilbert Water Scene Investigation	Pam Justice	Neely Traditional Academy	105
September 25, 2017	Maricopa WF Volunteer Training	Chuck Dugan	UA Extension Office - Casa Grande	6
September 26, 2017	Gilbert Water Scene Investigation	Pam Justice	Neely Traditional Academy	105
September 26, 2017	Payson Water Festival	Julie Hasty	Green Valley Park	284
September 28, 2017	Maricopa Water Festival	Chuck Dugan	Maricopa Agricultural Center	511
September 28, 2017	Bathroom Faucet - Audit	Betsy Wilkening	STAR Academy, Tucson, AZ	17
September 29, 2017	WSI-Calculations Lesson, Data Entry Lesson	Betsy Wilkening	Butterfield Elementary, Tucson, AZ	72
October 2, 2017	Glaciers & Climate Stories -Drachman K-8 School	Betsy Wilkening	1085 S 10th Ave, Tucson, AZ 85701	23
October 3, 2017	Bathroom Faucet - Calculations	Betsy Wilkening	STAR Academy, Tucson, AZ	16

October 5, 2017	Verde Valley Water Festival	Sara Krznarich	Dead Horse Ranch State Park	596
October 6, 2017	Pump It Up Day 1 - Walter Douglas	Betsy Wilkening	3302 N Flowing Wells Rd, Tucson, AZ 85705	92
October 6, 2017	Living River of Words Field Trip - Presidio School - Crossroads Park	Betsy Wilkening	7548 N Silverbell Rd, Tucson, AZ 85743	35
October 7, 2017	Kids safety expo - Home Depot	Betsy Wilkening	7677 E Broadway Blvd, Tucson, AZ 85710	197
October 13, 2017	Tucson Meet Yourself	Betsy Wilkening	44 N Stone Ave, Tucson, AZ 85701	122
October 14, 2017	Tucson Meet Yourself	Betsy Wilkening	44 N Stone Ave, Tucson, AZ 85701	220
October 15, 2017	Tucson Meet Yourself	Betsy Wilkening	44 N Stone Ave, Tucson, AZ 85701	68
October 16, 2017	SWAP Bathroom Faucet - Audit	Betsy Wilkening	Gale Elementary, Tucson, AZ	19
October 19, 2017	Aqua STEM Rainwater Harvesting Lesson Changemaker HS	Betsy Wilkening	1300 S Belvedere Ave, Tucson, AZ 85711	32
October 19-20, 2017	Litchfield Water Festival	Sara Krznarich	Goodyear Community Park	1510
October 20, 2017	SWAP Irrigation Audit	Betsy Wilkening	Butterfield Elementary, Tucson, AZ	84
October 23, 2017	Living River - Borton @ Crossroads at Silverbell District Park	Betsy Wilkening	700 E 22nd St, Tucson, AZ 85713	56
October 24, 2017	Living River - Borton	Betsy Wilkening	700 E 22nd St, Tucson, AZ 85713	56
October 25, 2017	Construction Career Day at Tucson Rodeo Grounds	Betsy Wilkening	4823 S 6th Ave, Tucson, AZ 85714	25
October 25, 2017	SWAP Irrigation Audit	Betsy Wilkening	Academy of Tucson Middle School, Tucson, AZ	55
October 26, 2017	Construction Career Day 2	Betsy Wilkening	4824 S 6th Ave, Tucson, AZ 85714	40
October 26, 2017	Flowing Wells Jr High - Math/Science Night	Betsy Wilkening	4545 N la Cholla Blvd, Tucson, AZ 85705	225
October 26, 2017	Living River - Walter Douglas	Betsy Wilkening	3302 N Flowing Wells Rd, Tucson, AZ 85705	97
October 26, 2017	Watershed Lesson Highland Free School	Betsy Wilkening	510 S Highland Ave, Tucson, AZ 85719	25
October 26 2017	Roosevelt Water Festival	Julie Hasty	El Reposo Park	919
October 27, 2017	Pump it Up Day 2 - Walter Douglas	Betsy Wilkening	3302 N Flowing Wells Rd, Tucson, AZ 85705	78
October 29, 2017	Cyclovia	Betsy Wilkening	5115 S 12th Ave, Tucson, AZ 85706, USA	80
October 30, 2017	SWAP Bathroom Faucet - Audit	Betsy Wilkening	Academy of Tucson MS, Tucson, AZ	48
November 2, 2017	Yuma Water Festival	Sara Krznarich	Yuma Quartermaster Depot State Historic Park	741

November 3, 2017	Chandler Water Festival	Julie Hasty	Tumbleweed Park	1124
November 4, 2017	Marana Earth Festival	Betsy Wilkening	6401 Marana Center Blvd, Tucson, AZ 85742	195
November 4, 2017	Pumpkin Smash festival - Las Milpitas Farm	Betsy Wilkening	2405 S Cottonwood Ln, Tucson, AZ 85713	81
November 7, 2017	Living River - Tucson High	Betsy Wilkening	400 N 2nd Ave, Tucson, AZ 85705	52
November 8, 2017	Living River - Tucson High	Betsy Wilkening	400 N 2nd Ave, Tucson, AZ 85705	47
November 8, 2017	Field Days	Sandra Hurlbut	Rio Salado	40
November 9, 2017	Field Days	Sandra Hurlbut	Rio Salado	87
November 9, 2017	Living River - Flowing Wells HS	Betsy Wilkening	3725 N Flowing Wells Rd, Tucson, AZ 85705	32
November 11, 2017	Green Valley Pecan Festival	Betsy Wilkening	1625 E Sahuarita Rd., Sahuarita, AZ 85629	530
November 13, 2017	Discovery Program Field Trip	Betsy Wilkening	Florence HS, Florence, AZ	27
November 14, 2017	SWAP Bathroom Faucet - Calculations	Betsy Wilkening	Academy of Tucson, Tucson, AZ	48
November 15, 2017	Living River - De Grazia Elementary	Betsy Wilkening	5051 W Overton Rd, Tucson, AZ 85742	40
November 15, 2017	Women In Science & Engineering, Sahuarita Middle School	Betsy Wilkening	350 W Sahuarita Rd, Sahuarita, AZ 85629	28
November 16, 2017	Rainwater Harvesting Activity	Sandra Hurlbut	Sunnyslope	96
November 16, 2017	Gilbert Water Scene Investigation	Pam Justice	Finley Farms Elementary	62
November 16, 2017	Butterfield Elementary STEAM Night	Betsy Wilkening	3400 W Massingale Rd, Tucson, AZ 85741	105
November 16, 2017	Estes Elementary STEM Night	Betsy Wilkening	11280 W Grier Rd, Marana, AZ 85658	48
November 16, 2017	Marana Water Festival	Betsy Wilkening	Marana, AZ	776
November 17, 2017	AZ STEM Adventure @ PCC North West Campus	Betsy Wilkening	7600 North Shannon Road, Tucson, AZ 85709	418
November 18, 2017	Family Festival in the Park (Reid Park)	Betsy Wilkening	900 S Randolph Way, Tucson, AZ 85716	347
November 18, 2017	Florence Water Festival Training	Chuck Dugan	Florence High School	10
November 21, 2017	Living River-De Grazia Elementary	Betsy Wilkening	5051 W Overton Rd, Tucson, AZ 85742	37
November 21, 2017	Florence Water Festival Training	Chuck Dugan	Parkside at Merrill Ranch	4
November 25, 2017	Florence Water Festival Training	Chuck Dugan	Casa Grande Extension	4
November 28, 2017	Florence Water Festival Training	Chuck Dugan/Nicole Kallman	Florence High School	10
November 30, 2017	Stem night: Mansfield	Betsy Wilkening	1300 E 6th St, Tucson, AZ 85719	7
November 30, 2017	Living River - Agua Caliente Park Sewell	Betsy Wilkening	425 N Sahuara Ave, Tucson, AZ 85711	57

November 30, 2017	Florence Water Festival	Chuck Dugan	Anthem Fields	493
December 8, 2017	Gilbert Water Scene Investigation	Pam Justice	Islands Elementary 245 S McQueen Rd., Gilbert, AZ 852331	26
December 19, 2017	Gilbert Water Scene Investigation	Pam Justice	Spectrum Elementary School 2846 Spectrum Way, Gilbert, AZ 85295, USA	91

Section 10 - Arizona Project Wet Volunteer Training

Date	Title	Presenter/Contact	Location / School	Attendance (if available)
February 2, 2017	Peoria WF Volunteer Training	Sara Krznarich	Peoria Public Safety Admin Building, Peoria, AZ	31
February 14, 2017	Casa Grande Water Festival Vonunteer Training	Chuck Dugan	Casa Grande Extension, Casa Grande, AZ	10
February 15, 2017	Tohono Chul docent training	Kerry Schwartz	Tohono Chul Park, Tucson, AZ	26
February 22, 2017	Water Festival training UA Students for Sustainability	Kerry Schwartz, Dee Fife	WRRC, Tucson, AZ	13
February 22, 2017	Lake Havasu WF Volunteer Training	Barbara Owens, Pam Justice	Lake Havasu Police Dept, LH, AZ	29
February 22, 2017	Lake Havasu WF Volunteer Training for ASU students	Barbara Owens, Pam Justice	ASU Lake Havasu campus, LH, AZ	18
March 2, 2017	Sahuarita Student Training for Water Festival	Barbara Owens, Pam Justice	Sahuarita Middle School	17
March 2, 2017	Sahuarita adult Training for Water Festival	Barbara Owens, Pam Justice	Sahuarita Police Dept	15
March 2, 2017	Gilbert WF Volunteer Training	Julie Hasty, Sara Krznarich	SW Regional Library, Gilbert, AZ	34
March 6, 2017	Littleton WF Volunteer Training	Pam Justice	City of Avondale Municipal Operations Service Center	9
March 30, 2017	Tucson WF Volunteer Training	Kerry Schwartz, Dee Fife	WRRC, Tucson, AZ	17
April 13, 2017	Apache Junction WF Volunteer Training	Sara Krznarich	Apache Junction MultiGenerational Center	13
May 3, 2017	Southern Gila WF Volunteer Training	Sara Krznarich	Bullion Plaza, Miami, AZ	17
June 30, 2017	Sacaton WF Volunteer Training	Sara Krznarich	ASU, Tempe, AZ	54
September 5, 2017	Flagstaff Volunteer Training - NAU students	Sara Krznarich	NAU	28
September 21, 2017	Payson Volunteer Training	Julie Hasty	Green Valley Park, Payson, AZ	7
September 27, 2017	Verde Valley Volunteer Training	Sara Krznarich	Yavapai County Cottonwood Annex	20

October 23, 2017	Roosevelt Volunteer Training	Julie Hasty	U of A Maricopa County Cooperative Exxtension	12
October 30, 2017	Chandler Volunteer Training	Julie Hasty	Chandler Recreation Center	17
November 1, 2017	Yuma Volunteer Training	Sara Krznarich	Yuma Quartermaster Depot State Historic Park	
November 9, 2017	Marana Volunteer Training	Betsy Wilkening, Chuck Dugan	Marana Water Department, Marana, AZ	12

Section 11 - Arizona Project Wet Workshops

Date	Title	Presenter/Contact	Location / School	Attendance (if available)
Jan 18, Feb 1 and Feb 15, 2017	Littleton Water Festival Teacher Workshop	Pam Justice, Barbara Owens	Collier Elementary, Avondale, AZ	29
January 21, 2017	Lake Havasu Water Festival Teacher Workshop	Pam Justice, Barbara Owens	Lake Havasu School District office	11
January 24, 2017	Gilbert Water Festival Teacher Workshop	Julie Hasty, Sara Krznarich	Gilbert Public Schools Dist Offices, Gilbert, AZ	28
March 23, 2017	Tucson Water Festival Teacher Workshop	Kerry Schwartz, Dee Fife	Amphi PD Center, Tucson, AZ	16
April 13, 2017	Apache Junction Water Festival Teacher Workshop	Julie Hasty	AJ Multigenerational Center, Apache Junction, AZ	3
March 21-22, 2017	Recharge the Rain Teacher Workshop	Kerry Schwartz, Betsy Wilkening, Holly Thomas-Hilburn	WRRRC	15
June 22, 2017	Summer Institute for Nature and Place-Based Early Childhood Education	Holly Thomas Hilburn	Prescott, AZ	24
February 15, 2017	Tohono Chul Docent Training	Kerry Schwartz	Tucson, AZ	26
May 6, 2017	2016 STEM Academy Follow-up	Kerry Schwartz, Betsy Wilkening	Tucson, AZ	13
June 5-9, 2017	2017 Tucson STEM Academy	Betsy Wilkening, Holly Thomas-Hilburn	Tucson, AZ	20
June 13-15, 2017	STEMAZing	Kerry Schwartz, Dee Fife	Tucson, AZ	21
June 26-30, 2017	Recharge the Rain - Summer	Kerry Schwartz, Betsy Wilkening	Tucson, AZ	15
July 18-21, 2017	Underwater Robotics & Engineering Design	Betsy Wilkening, Mary Ann Stoll	Tucson, AZ	20
July 27, 2017	Litchfield Teacher Workshop	Sara Krznarich	Western Sky Middle School, Goodyear, AZ	12
August 12, 2017	Flagstaff Teacher Workshop	Sara Krznarich	Flagstaff Unified School District Office, Flagstaff, AZ	10
August 26, 2017	Chandler Teacher Workshop (8 Florence teachers)	Julie Hasty	Chandler Techshop, Chandler, AZ	17

August 29, 2017	Payson Teacher Workshop	Julie Hasty	Julia Randall Elementary School, Payson, AZ	9
September 7, 2017	Verde Valley Teacher Workshop	Sara Krznarich	Yavapai County Annex Office - Cottonwood	3
September 12-14, 2017	Maricopa/ Casa Grande Teacher Workshop	Chuck Dugan	CG Elem District Office, Maricopa Water Festivals	18
September 16, 2017	Yuma Teacher Workshop	Sara Krznarich	City of Yuma Public Works	18
September 30, 2017	Roosevelt Teacher Workshop	Julie Hasty	U of A Maricopa County Extension Office	6
October 12-13, 2017	Living River Academy	Holly Thomas Hilburn, Betsy Wilkening	Wheeler Taft Library, Marana, AZ and WRRC Tucson, AZ	10
October 24, 2017	Marana Sahuarita Teacher Workshop	Sara Krznarich	Amphitheatre Public Schools	14
November 8, 2017	Peoria Teacher Workshop	Sara Krznarich	Peoria Unified School District	12
11/17-11/18/18	Recharge the Rain Fall Academy	Kerry Schwartz, Betsy Wilkening	Watershed Management Group, Tucson, AZ	12

Section 12 - WRRC Students

UNDERGRADUATES

Gudvangen, Emily; Pre Physiology; BS; May 2017

Murphy, Brendon; Computer Science / Japanese; BS; December 2017

Potteiger, Samuel; Environmental Hydrology and Water Resources; BS

James, Emily; Public Health; BS; May 2017

Campos-Alvarez, Max; Hydrology and Water Resources; BS; May 2017

Aleman, Miriam; Environmental Sciences; BS; May 2017

Kennedy, Ryan; Ecohydrology from U of Nevada, Reno; BS

Wilkening, Patrick; Computer Science; BS; May 2017

Dejno, Morgan; Pre-Physiology; BS

Dew, Taylor; Environmental and Water Resource Economics; BA

Flynn, Brian; Political Science / Literacy, Learning and Leadership; BA

Gray, Erin; Computer Science, Environ Hydrology and Water Resources; BS; May 2017

Kroll, Bethanie; Natural Resources; BS

Martinez, Hiram; Public Health; BS

Richard, Danielle; Biology / Public Health / Spanish; BS / BA; May 2018

Rik, Rickii; Natural Resources; BS

Rosenthal, Zoe; Microbiology; BS

Rytersk , Meghan; Biosystems Engineering; BS

Shanley, Louis; Geosciences; BS; May 2018

Spacek, Ryan; Natural Resources; BS

GRADUATES

Amaro-Silva, Joaquin; Public Health; MPH; May 2017

Atwood, Joel; Hydrology; MS; May 2018

Baxter, Jessica; Water, Society, and Policy; MS

Gander, Ashley; Ecology and Evolutionary Biology; MS

Golden, Jake; Water, Society and Policy; May 2018

Kembitzky, Alexander; Law; JD

Kennett, Bailey; Water, Society and Policy; MS; May 2017

Lahmers, Timothy; Hydrometeorology; PhD

Lynch, Robert; Soil, Water and Environmental Science; MS; May 2018

Nelson, Craig; Water, Society and Policy; MS; May 2017

Randall, Sarah; Water, Society and Policy; MS; May 2017

Sanchez, (Rodrigo) Andres; Hydrology; PhD; May 2018

Tapia, Elia; Arid Lands Resource Sciences; MS / PhD; May 2014 /

Vimont, Ethan; Soil, Water and Environmental Science; MS; May 2017