

October 2008 Newsletter

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Viewpoint: October Reflections

This last weekend I was again in Flagstaff, relaxing after the ramping-up for the highly successful AHS-AIPG-3IPCG meeting the previous weekend, enjoying the last of the summer days in the Northland. As the late afternoon shadows lengthened through the pines, I reflected on how enjoyable the Symposium turned out, with excellent technical papers, great workshops, and memorable field trips. We had nearly 400 people register for the joint meeting. I met people from Turkey, Switzerland, Spain, and Germany, and geologists and hydrologists from many states here. Everyone who attended the Monday night dinner event saw a wonderful performance from the Hopi dancers, and for the entire audience to get up and dance around the room was certainly a first for AHS. A wide variety of vendors had excellent traffic flow in a modern conference center filled with light and a view of the San Francisco Peaks. Even the food was good.

AHS owes a lot of people many thanks for their hard work. Barbara Murphy did a great job as General Chair, and Aregai Tecele and Dave Best were superb as the meeting's Co-Chairmen. The staff from the American Institute of Professional Geologists, led by Bill Siok, did a great job, once again proving the value of a cooperative effort. But I want to especially thank the AHS Flagstaff Chapter for planning this event all year and putting in so many hours in bringing it to a successful conclusion. In particular I want to thank Dana Downs-Heimes, Margot Truini, Erin Young, Boris Poff, Paul Whitefield, and Charlie Schlinger. Despite its size, Flagstaff is a mighty chapter indeed, and deserves our respect and gratitude for yet another Annual Symposium that will not be forgotten.

As the credit markets and financial liquidity freeze up (or melt down, depending on what temperature you like for your metaphors), I am reminded that water is a resource that is in constant demand. Water professionals also remain in constant demand, and while adverse economic tides may slow down our work load for a while, we will definitely stay employed, particularly in the semi-arid Southwest. The Arizona Hydrological Society continues to fulfill its mission, and

in so doing serves water professionals. The success of the recent Annual Symposium in Flagstaff provides proof of the vitality of our organization.

Alan Dulaney,

AHS Corporate Board President, 2008

Phoenix Chapter

- October Dinner Meeting Announcement
- Zuni Basin Fossil Field Trip
- Herman Bouwer Intern Experience 2008
- Nominations Sought!
- Symposium 2009
- Events Calendar

October Dinner Meeting Announcement

Our next dinner meeting will be held October 14th when Dr. Brian Wahlin from WEST Consultants will discuss his unsteady HEC-RAS canal operation simulator. Please join us Oct. 14th at El Penasco at Mill & Broadway in Tempe. Hope to see you there! Location: El Penasco Mexican Kitchen, 19 E. Broadway Road, Tempe, AZ 85282 Speaker: Dr. Brian Wahlin, WEST Consultants – HEC-RAS unsteady flow canal simulation tool.

Chapter Board Meeting: 5:00 PM – 5:40 PM Happy Hour & Dinner: 5:45 PM – 7:00 PM Dinner Speaker: 7:00 PM – 8:00 PM

Cost: \$15 member, \$20 non-member, \$5 student

RSVP with Beth Proffitt at bproffitt@caslab.com or 602-437-0330.

Zuni Basin Fossil Field Trip, Oct. 10-12, near Springerville, AZ

The Phoenix Chapter along with assistance from Erin Young, Fluid Solutions, & Richard Brose, Four Corners Environmental, of the Flagstaff Chapter are coordinating a field trip to a very unique spot in northeastern Arizona to examine real life dinosaur fossils! Our tour guide will be Doug Wolfe, Renaissance Environmental Management, L.L.C.

The trip is planned over the weekend of Oct. 11 – 12. Remember its four hours to Springerville and then an hour of so of dirt to get to the site. So interested participants will probably need to leave early afternoon on Friday to get to Springerville for the early Sat. departure. Folks can plan to stay in Springerville at Reeds Lodge on Friday and Saturday and return home on Sunday evening. The room rate we've been offered is very reasonable, running between \$45 and \$63 per night depending on the room type. Yes, camping is cheaper but is logistically more complicated and slows us down a lot based on Doug's

experience. However, you're welcome to meet us at Reeds Lodge Sat. for an 8:30 am departure.

The field excursion itself will take place on Saturday and Sunday. We've decided to let individuals figure out their own food logistics, but we encourage cooperative efforts. Lunch will be on the road but breakfast and dinner can be rounded up in the Springerville area. The sites are at 7000 feet or so and very remote. People need to be in pretty good shape (probably no problem for this group.) We will limit the number of vehicles to 2 or 3. We investigated renting vans, but the cost is pretty high. So, if an interested party has a 4WD suburban or large crew cab, please let us know!

People will need to know there can be no private collecting. The sites are permitted Federal property. We will have to have people sign a statement accepting these conditions and agreeing to keep the sites confidential. We basically say the field vehicles leave from Reeds each morning about 8:30 to the site. If not on the bus, please enjoy beautiful downtown Springerville. Doug says you will see why this is necessary if you come. We will see dinosaur bones, fossil trees etc in the field and trackways and explore some promising territory.

Ted Lehman plans to arrange a carpool from Tempe Friday afternoon Oct. 10 for interested parties in the Phoenix and/or Tucson areas. He has room for two or three others. Erin and Richard will also be leaving from the Flagstaff area. Contact them for additional details.

Persons interest in the field trip in the Phoenix or Tucson areas should contact Ted Lehman or those in the Flagstaff area contact Erin Young (eyoung@flusol.com).

Thanks again to Doug Wolfe for volunteering to share this great field experience with AHS.

Field Trip to Global Water Center, Operations Control Center, and Water Recycling Facility, Saturday Nov. 15, 2008, 9 – 10:30 am

Please join us for a guided tour of the Global Water Resources state-of-the-art Global Water Center in Maricopa, Arizona. Global Water Resources is an Arizona-based water utility known for its leadership in water conservation through recycling and reuse. The Global Water Center is the first Leadership in Energy and Environmental Design (LEED®) Silver Certified utility facility in Pinal County. Ultimately, the Global Water Center will serve over 100,000 homes, care for over 300,000 customers, and create over 100 jobs for the city of Maricopa. Currently, the Center educates thousands on the benefits of water recycling and has hosted both local and international conferences on long-term water sustainability. Along with those exceedingly positive effects, perhaps the most notable impact is what the Center does not do... It does not use one drop of drinkable water to flush toilets, water plants and grass, or fill a water feature. The Center uses 80% less drinkable water than a traditionally constructed building of the same size. It does not consume nearly as much power as a typical building. Taking maximum advantage of natural light and high-efficiency heating and AC, the Center uses only two-thirds the electricity of an average

commercial structure. It does however, have countertops, concrete form walls, ceiling tiles, carpet, asphalt paving, and metal parking canopies all constructed from recycled materials. And at least 50% of construction, demolition and land clearing waste was recycled or salvaged, effectively diverting it from landfills.



Contact Ted Lehman at ted@jefuller.com or 480-222-5709 if you are interested in attending. He will be organizing a carpool from his office in south Tempe (8400 S. Kyrene Road) for interested persons. The tour starts at the Global Water Center at 9 am, so we'll plan to leave Tempe about 8:15 am to make sure we arrive with time to meet our tour hosts. You are also welcome to meet us at the Global Water Center. Hope to see you there!

Herman Bouwer Intern Experience 2008

My name is Cheri Topel and I was selected as the 2008 Arizona Hydrological Society (Phoenix Chapter) Herman Bouwer Internship Scholarship recipient. I had the opportunity to intern with state agencies and consulting companies. I chose to rotate two weeks with each of the following: ADWR, AMEC Earth & Environmental, Layne Christensen Company, and ADEQ. I was invited to the Surface Water Seminar at ADWR hosted by the Phoenix AHS Chapter. I also attended the 40 hour HazWOPER training at ASU Polytechnic and MSHA training.

I had very full days at ADWR and my contact, Dave Christiana, scheduled me in the following units/departments: WQARF, Assured Water Supply, Recharge/Surface Water, Modeling, Notice of Intent, GIS, Information Services, Phoenix AMA, and Community Water Planning/Drought Planning. I also had the opportunity to attend a Local Drought Impact Group meeting in Maricopa, which provided me with the states preparedness to drought. I would like to thank the staff at ADWR for sharing with me their time, knowledge, daily activities/meeting with clients, and their insight to water issues within the state. The staff was very committed to helping its clients and very skilled in their area of expertise. I also found that my Environmental Technology Management and Geology degrees were invaluable in understanding the regulatory and scientific information that was presented at ADWR during the week.

My second week at ADWR was with the Geophysics Unit. Brian Conway let me join the staff for a field trip to Green Valley, where we did RTK surveys to monitor ground subsidence. I appreciated this field project because I have a special interest in subsidence and fissure formation due to excessive groundwater withdrawal. I also did gravimetric surveys and microgravity base ties in the Phoenix area, which is used to monitor long term trends.

I was invited to the 2008 Arizona-Mexico Commission Summer Plenary (Water Committee Sessions) by Placido dos Santos, Associate Director at the Arizona Water Institute. It was a privilege to attend the meeting and learn the issues, objectives and see the cooperation between Arizona and Sonora in regards to important water issues facing both regions.

I interned at AMEC Earth & Environmental in Tempe, under the guidance of Emily Stevenson in the Water Resources Division. While at AMEC, I attended a Phase I ESA in Yuma, which I enjoyed immensely and I would like the opportunity to work in the environmental field doing site assessments in the future. I also had the pleasure of helping Emily with the project report that followed. I spent time in the Materials Testing Lab doing soil testing and was shown the sample analysis procedures in the Asbestos Testing Lab. A civil engineering project for a water treatment facility was explained to me, which gave me a new point of view from an engineer's perspective. The remainder of the time was spent working on well production reports and summaries, borehole geophysics data and zonal groundwater quality analytical data (which was great fun). I enjoyed assisting with the report writing that follows the data collection on site and I found the AMEC staff to be highly proficient and professional.



The best learning experience was with Layne Christensen Company in Chandler. I was under the guidance of Rod Michael, field supervisor and drilling professional, dedicated to achieving the very finest work from his drilling crews. During the first week I was at a mineral site in Buckeye. There the Layne Fontana crew was vertical core drilling for verification of feldspar and quartz, which is used as a raw material in stucco, and for mapping the granite pluton on site. I also spent three days at a mine site in SE Arizona. This is a very geological complex area and the Fontana crew was angle drilling using the CS 1000 drill rig, which is capable of drilling 1000 feet with a high quality core and is used for identifying and verifying mineralized vein structures. The core samples were absolutely amazing and were analyzed on site for silver mineralization, which occurs in manganese oxide veins along fractured and faulting zones in this area, and then the cores were logged, split and sent for assay. This site was so intriguing that I am going to continue to follow their progress and would like to visit this site again in the future!

My second week at Layne started with a well abandonment and a new well that was in the process of acquiring step rate aquifer test data. I also was at a site in Mesa, there Layne's crew was drilling to identify new locations that contain clean gravel for use in construction materials. This type of drilling was a new experience for me because the geologic samples are continuously returned up the center of the inner barrel and are not contaminated with drilling muds. I also

spent a day in Avondale, where reverse circulation was used to drill a pilot hole for a water well under production, and to check the lithology of the hole, to obtain zonal sampling and complete deviation surveys to check the well casing. Layne also hosted a Water Operator Training Seminar, which I attended in Green Valley/Sahuarita.

I found Layne's drilling teams to be skilled professionals, who are efficient and capable, highly proficient, extremely hard working, reliable, and amiable. Everything on the drill sites went extremely well and after this experience, I would like to work with Layne's crews in the future, as a geologist on site.

I would like to extend a very special thank you to everyone at Layne Christensen Company, especially James Stephens and Jim Hausladen. This was Layne's first experience participating with the AHS Herman Bouwer Internship program and I am especially appreciative because they exceeded all my expectations, and went above and beyond to make my two weeks a memorable and remarkable experience. I really can't thank them enough for sponsoring me. I would also like to extend a very special thank you to Rod Michael, Juan Duenas, Cesar Sandoval, Armando Zamora, Pablo Mancilla, and Martin Quinones.

My final two weeks were with ADEQ in the TMDL unit and my contact was Jason Sutter. During this time I read many standards and reports and I also went on a field trip to Alum Gulch, there discharge and cross sectional measurements were taken at specific sites along the stream. The auto-samplers were also checked; samples are collected and analyzed to see if load reductions are being met and if water quality standards have been attained. I attended a Water Quality Improvement Grant Meeting in Tucson, which is a collaboration with Master Watershed Stewards, NEMO and ADEQ. I also spent time in the lab cataloging aquatic macroinvertebrates, which are indicators of water quality. Urban lake samples were prepared and analyzed for e-coli then the lab samples were packed and delivered to the testing lab for further analysis. Thanks to everyone in the TMDL/Surface Water and the Grants & Outreach Units, the staffs were very professional and highly dedicated to monitoring and supporting impaired water bodies in order to help meet water quality standards and protecting water resources in the state.

Thank you to Dave Christiana, Placido dos Santos, Brian Conway, and Paul Ivanich at ADWR; Ed Latimer, Emily Stevenson, Tim Ostapuk, Priscilla Acuna, and Emily Corkery at AMEC; Steven Cox, Alan Brown, Scott Davis, Francisco Montecinos, Joe Crow, Evan Friedman, Lisa Champagne, Mike Droz, and Meredith Smith; Jason Sutter, Colin Breslin, Susan Determann, Darren Sversvold, Rebecca Followill, and Patti Spindler at ADEQ.

Special thanks to Steve Acquafredda for all his help getting me started and making the initial contacts with my hosts. Also, thanks to Emily Stevenson, Barrett Halterman, Josh Coyan, and Steve Acquafredda for believing in my abilities and selecting me as the 2008 Herman Bouwer Intern Scholarship recipient, it was an honor. I would also like to extend a special thank you to Vicki Mills, who shared her internship experiences with me last year and inspired me to apply this year.

Last Call for Nominations for Chapter Officers for 2009

Last call for nominations for chapter board member nominations is this month. I need to finalize the slate of candidates by October 24th to ready the ballots for distribution.

The Phoenix Chapter is still seeking nominations for all offices of the Chapter Board for 2009. A couple of folks have come forward, but we need additional bodies. We have many long serving board members looking for a bit of relief! We also have the additional demands of the Symposium in 2009 in addition to our other various chapter activities including organizing and shepherding the monthly dinner meetings, administering the Bouwer internship, judging the spring science and engineering fair, and lots more.

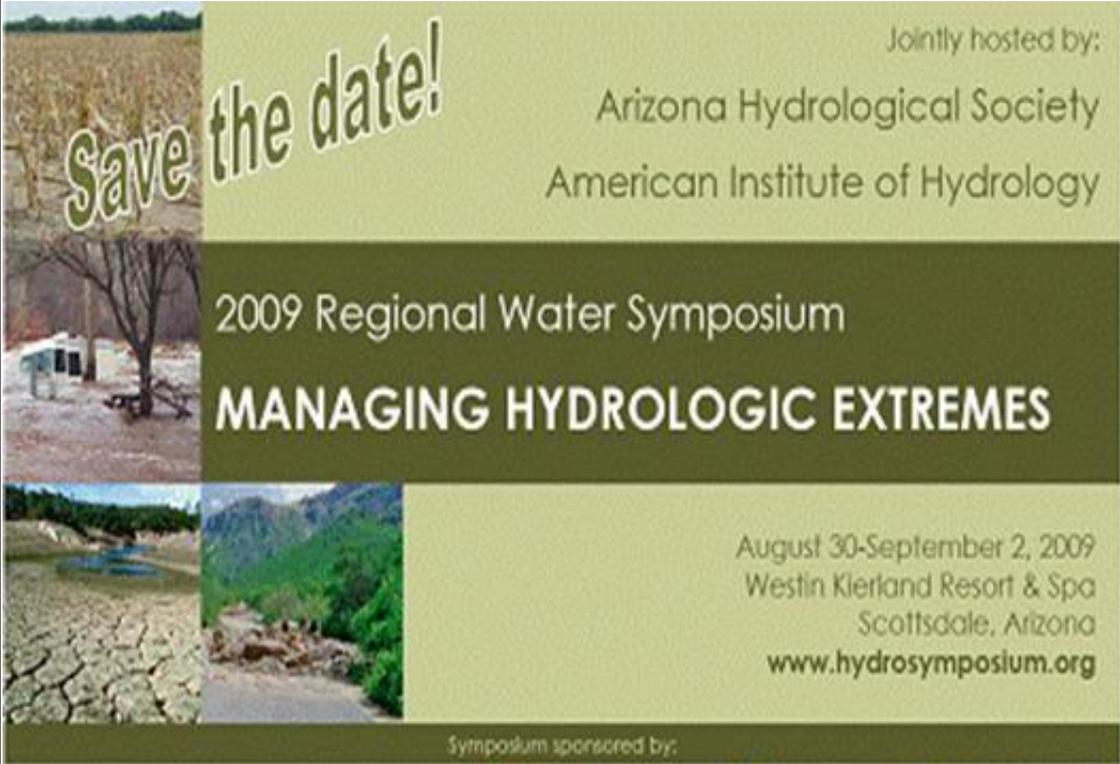
Offices on the Board include President, Vice President, Treasurer, Secretary, two Chapter Board positions, and one open Corporate Board position. There are no special requirements of board membership except you must be an AHS member (if you're not, that's easily rectified!) and have a willingness to provide input and give something back to the Society. The Chapter Board normally meets monthly except Aug. & Sept. in advance of the chapter dinner meetings. Board members can expect to spend about 4 to 8 hours a month preparing for and participating in board meetings and other chapter activities. The Chapter President and Corporate Board members also meet quarterly with the Corporate Board members from Tucson and Flagstaff. Those meetings are held for four hours on Saturdays – once in Flagstaff (July), once in Tucson (Jan.) and twice in Phoenix (April & Oct.). Participation in the Chapter Board is a great way to learn more about the Society and help chart our path forward. Nominations can be made to current Chapter President, Ted Lehman, at ted@jefuller.com or 480-222-5709. I look forward to hearing from you! Please, I'm begging you! For the third time!

2009 AHS Annual Symposium Sponsors Sought

Now that the 2008 Symposium is in the books, it's time to get serious about the 2009 Annual Symposium. The event, "Managing Hydrologic Extremes", will be held at The Westin Kierland Resort & Spa August 30 through September 2,, 2009 in Scottsdale. The event will be a joint symposium with the 2009 national conference of the American Institute of Hydrology (AIH). Thanks to our volunteers we already have six sponsors! –

- Freeport McMoRan,
- ACS,
- Clear Creek Associates,
- Columbia Analytical Services,
- EEC,
- SAHRA.

If you are interested in getting your name out early and let everyone know you are supporting another outstanding AHS event, please contact Mike Hulst, EEC, at 602-248-7702 or mhulst@eecphx.com or Ted Lehman and ask for a sponsorship package. More information will be available soon at our website,



Save the date!

Jointly hosted by:
Arizona Hydrological Society
American Institute of Hydrology

2009 Regional Water Symposium
MANAGING HYDROLOGIC EXTREMES

August 30-September 2, 2009
Westin Kierland Resort & Spa
Scottsdale, Arizona
www.hydrosymposium.org

Symposium sponsored by:



Planning for 2009 Symposium continues, Oct. 7th at JEF Tempe

Planning for the 2009 AHS Symposium continues and we will be meeting regularly to hammer out details of program, speakers, sponsorship, marketing, proceedings, workshops, field trips, etc. The next planning meeting is scheduled for Tuesday, Oct. 7th at 5 PM at the Tempe offices of JE Fuller (8400 S. Kyrene Road, #201). If you are interested in helping with the planning process or just listening in, please contact Ted Lehman at ted@jefuller.com or 480-222-5709, Lee-Anna Walker at LeeAnna.Walker@arcadis-us.com, Christie O'Day at coday@acstempe.com or 480-894-5477 or Keith Ross at keithr@hgcinc.com or 480-421-1501. We'd love to have you and we can really use your help.

Event Calendar

- October 7 – Symposium Planning Committee Meeting, 5 PM, JEF Tempe
- Weekend of Oct. 10-12, Zuni Basin fossil field trip, Doug Wolfe, Renaissance Environmental Management, L.L.C., leader, Springerville, AZ
- October 14 – Dr. Brian Wahlin, WEST Consultants, Unsteady HEC-RAS canal training simulation tool, El Penasco, Mill & Broadway, Tempe
- November 15 – Field Trip to Global Water Center, Maricopa, AZ, 9-10:30 am.
- November 18 – Third Tuesday meeting to avoid Veteran's Day – Matt Beversdorf, ADWR, ADWR Groundwater Data web application, check out the Beta version now:
http://arcims.azwater.gov/gwsi_web93/SearchGWSI.aspx
- December 9 – Jolene Tallsalt Robertson, Navajo Nation, water resource

projects in the Navajo Nation

- Aug. 30- Sept. 2, 2009 – Managing Hydrologic Extremes, Joint Symposium of AHS & AIH, Westin Kierland Resort & Spa, Scottsdale, AZ

Tucson Chapter

1. Tucson Chapter Presidents Note
2. October Meeting Announcement
3. SAHRA News
4. HWR New
5. WRRC News
6. HydroNews
7. Call for Nominations for Chapter officers – 2009
8. Presentation Abstract, University of Arizona, HWR Seminar Series, Oct 8.

A Note from the Tucson Chapter President

The Tucson Chapter segment of the newsletter is currently undergoing a “remodeling.” Essentially, the new goal of the newsletter is to be a one-stop-shop for all Hydrology related news and events – associated with AHS, and the Tucson Region. As such, look for notices of speaker events held at many of the Hydrology focused agencies we have in Tucson, including the Water Resources Research Center, SAHRA, the Hydrology Department...and, of course, AHS sponsored events. We are also including a new section, called Tucson HydroNews, which seeks to consolidate Hydrology related news articles that affect the Tucson region into one place. If we have missed any item of importance, or for general feedback, please contact me at jgawad@elmontgomery.com, or call me at 520-881-4912. Thank you.

Jeff Gawad, Tucson Chapter President

Tucson Chapter Meeting Announcements

October, Tucson Water Plan

Ralph Marra and Wally Wilson, Tucson Water, will be speaking to the Tucson Chapter on Oct 14 at Montgomery and Associates, 1550 E Prince Rd. Marra and Wilson will jointly present Tucson Water's 2008 Update to Water Plan:2000-2050. This plan strongly emphasizes maximizing flexibility to manage resource-planning.

The social hour is at 6:00 pm and the presentation will start at 6:30 pm.

November, Deborah Tosline, United States Bureau of Reclamation

Details to be announced.

October Events at SAHRA (Sustainability of semi-Arid Hydrology and Riparian Areas)

SAHRA's 8th annual meeting will be held Oct. 16-17 at Biosphere 2.

This year's meeting will have a largely internal focus aimed at sharing science results from the last eight years, final planning related to completing SAHRA's signature products, and discussion of post-NSF efforts that build on SAHRA's legacy.

All students who are receiving SAHRA support are encouraged to present posters, with abstracts due Sept. 15.

The meeting will kick off with a reception and dinner at Biosphere 2 on October 15.

» Registration is via the SAHRA website.

<http://www.sahra.arizona.edu/cgi-bin/news/news.pl?ID=37>

Hydrology and Water Resources October Seminar Schedule

Oct. 1st, 2008 – Christine Shoemaker, of Cornell University in Ithaca, NY - “Uncertainty Analysis and Optimization of Computationally Expensive Environmental Models.”

Oct. 8th, 2008 - Nick Melcher, Executive Director of the Arizona Hydrological Society and United States Geological Survey (retired) – “Communicating Science to Policy-makers.”

Oct. 15th, 2008 – No Seminar

Oct. 22nd, 2008 – To Be Announced

Oct. 29th, 2008 – Francina Dominquez, of SAHRA; title of talk To Be Announced

For more information, please visit the Hydrology and Water Resources website

<http://hwr.arizona.edu/calendar/Seminars/Seminars%202008/HWR%20-%20Fall%202007%20Schedule%20-%202.htm>

WRRC Brown Bag Seminars: October & November 2008 Schedule

Information for additional seminars can be found on the WRRC web site:
www.cals.arizona.edu/azwater

All seminars and events are held at the Sol Resnick Conference Room, Water Resources Research Center, 350 N. Campbell Ave., Tucson, AZ

Monday, October 6

Title: Water Management Strategies for Heritage Landscapes - a case study

Speaker: Peter Symes, Senior Curator, Horticulture Royal Botanic Gardens, South Yarra, Australia

Time: Noon - 1:30

Mr. Symes will cover both annexes of the Royal Botanic Gardens for interest: RBG Melbourne and RBG Cranbourne, but focus on Melbourne. The talk will cover some history and background of the Gardens, then move into what has been done, and then the outlook and issues facing the Botanic Gardens such as alternative water supplies, climate change and landscape succession.

Friday, October 24

Title: Predicting Demand for Direct Delivery of CAP Water: A Spatial Economic Perspective

Speaker: Taylor Shipman, Montgomery & Associates

Time: Noon - 1:30

Friday, November 14

Title: Tucson Water's Clearwater Program - Present and Future

Speaker: Wally Wilson, Tucson Water

Time: Noon - 1:30

Tucson HydroNews

Oro Valley Water Rates Likely to Rise

By Lourdes Medrano, Arizona Daily Star
Tucson, Arizona | Published: 09.25.2008

The Oro Valley Town Council last week approved a notice of intent that paves the way for increases in water rates. A study session on the proposed rates is scheduled for Oct. 8 at 5:30 p.m. in Town Hall, 11000 N. La Cañada Drive. The council will hold a public hearing during its Nov. 8 regular 6 p.m. session, when it will consider adopting new rates that could include water conservation fees.

<http://www.azstarnet.com/allheadlines/258797.php>

Council Approves Graywater Regulations

By Rob O'Dell, Arizona Daily Star
Tucson, Arizona | Published: 09.24.2008

All new homes built in Tucson after mid-2010 will need to include plumbing for a graywater system, the City Council voted unanimously Tuesday. The new rules require plumbing — also called stub outs — for graywater systems for all new homes that are issued permits after June 1, 2010. The regulations affect only new construction, not existing houses, unless the homeowner builds an addition with a new bedroom, bathroom and kitchen. A newly constructed guesthouse on an existing property would need the graywater plumbing.

<http://www.azstarnet.com/allheadlines/259086.php>

Audit Sides with Pima Staffers on Water Regulations

By Tony Davis, Arizona Daily Star
Tucson, Arizona | Published: 09.22.2008

Pima County staffers did nothing wrong in their handling of federal Clean Water Act regulation of county road, flood-control and sewer projects, County Administrator Chuck Huckelberry says in a new report. The report was ordered

by the Board of Supervisors after a series of internal county memos suggested staffers opposed U.S. efforts to regulate the building of county projects along rivers and washes and to declare the Santa Cruz River navigable.

Environmental groups, in particular, said the county was trying to push federal agencies into loosening controls over these projects — in direct contradiction to the county's land-saving Sonoran Desert Conservation Plan. Huckelberry wrote in his audit report that the staff did not violate any Board of Supervisors policies. Far from trying to oppose federal regulation, the staff was seeking speedy and clear federal decisions, he said. The staff was pushing for "simple and quick . . . determinations in order to proceed rationally and reasonably with county public works projects," he said. The staff never discussed trying to avoid saving land or endangered species to compensate for the projects' environmental effects, he wrote.

<http://www.azstarnet.com/allheadlines/258679.php>

Water Co-op gets \$200K State Loan

By Brian J. Pedersen, Arizona Daily Star
Tucson, Arizona | Published: 09.18.2008

A small water company that serves 330 homes near Picture Rocks has been awarded a \$200,000 loan from the state to help remove arsenic from its water supply. On Aug. 14 the board of directors of the Water Infrastructure Finance Authority of Arizona voted to give a low-interest loan to the Rancho del Conejo Community Water Co-Op. The loan will help the co-op with the design, construction and installation of an arsenic remediation system, said the finance authority's chairman, Steve Owens.

<http://www.azstarnet.com/allheadlines/257838.php>

Plane Crash Kills U.S. Border-Water-Issues Panelist

STAFF AND WIRE

Tucson, Arizona | Published: 09.18.2008

City officials in Nogales, Ariz., are mourning the death of the commissioner of the U.S. Section of the International Boundary Water Commission, Carlos Marin, who died in a plane crash this week along with three others. Marin visited Nogales on a semiregular basis to work with the city on storm-water and wastewater issues. He was in Nogales in late July to assess if a barrier that had been built in a tunnel beneath Nogales was in Mexico and if it was the cause of flooding in Mexico. Marin, Arturo Herrera, commissioner of the Mexican side of the commission, and two others were aboard a plane that had been missing since Monday when it took off from El Paso to check out flooding on the Rio Grande. The International Boundary and Water Commission said that all four people were found dead in the plane's wreckage Wednesday by the U.S. Border Patrol in a rugged section of the Sierra Madre Mountains in Mexico, about 20 miles northwest of Presidio.

<http://www.azstarnet.com/allheadlines/258147.php>

Call for Nominations for Chapter Officers for 2009

Last call for nominations for chapter board member nominations is this month. The slate of candidates needs to be finalized by October 24th to ready the ballots for distribution.

The Tucson Chapter is still seeking nominations for all offices of the Chapter Board for 2009.

Offices on the Board include President, Vice President, Treasurer, Secretary, two Chapter Board positions, and one open Corporate Board position. There are no special requirements of board membership except you must be an AHS member and have a willingness to provide input and give something back to the Society. The Chapter Board normally meets as needed throughout the year, usually every other month. Board members can expect to spend about 4 to 8 hours a month preparing for and participating in board meetings and other chapter activities. The Chapter President and Corporate Board members also meet quarterly with the Corporate Board members from Tucson and Flagstaff. Those meetings are held for four hours on Saturdays – once in Flagstaff (July), once in Tucson (Jan.) and twice in Phoenix (April & Oct.). Participation in the Chapter Board is a great way to learn more about the Society and help chart our path forward. Nominations can be made by contacting the current Chapter President, Jeff Gawad, at jgawad@elmontgomery.com or 520-881-4912. Thank you.

Presentation Abstract for the U of A HWR Seminar Series, Oct 8, 2008

Communicating Science to Policy-makers

Traditionally, scientists and policy-makers have had serious difficulties communicating effectively. This communication problem can limit policy-makers access to the science needed for the development of sound public policy. Scientists and policy-makers work in vastly different environments and their occupations have very different priorities and objectives. As a result, scientists and policy-makers tend to process information and view the world in very different ways. These diverse views create misunderstandings and cause difficulties in communicating effectively. Decisions on critical issues are often made without access to the best scientific understanding. This communication problem also serves to limit the relevancy of scientific findings and can eventually result in weakened support for science among policy-makers. Clearly it is incumbent on all scientists and policy-makers to find better ways to communicate in order to produce the best science-based public policy. This presentation will provide some ideas regarding the basis for these different viewpoints and provide some ideas to better communicate scientific understanding to policy-makers and to the general public.
4PM Marshall Room 531

Nick Melcher
Executive Director, Arizona Hydrological Society,
USGS Retired

Flagstaff Chapter

Very Successful 2008 Symposium

Together with the planning staff from the American Institute of Professional Geologists, and the Planning Committee chairpersons Barbara Murphy, David Best, and Aregai Tecle, the Flagstaff chapter is pleased to announce the completion of another very successful Symposium, held in Flagstaff on September 20-24. The event attracted almost 400 geoscientists from all over the world. Technical sessions and luncheons were held at the brand new beautiful Flagstaff High Country Conference Center. Symposium field trips were a huge attraction and included trips to the Grand Canyon, Fossil Creek, the Jerome mining district, Sedona, Meteor Crater, Sunset Crater and Wupatki, and Montezuma Well Castle and Tuzigoot.



Clear waters of Fossil Creek visited as part of an AHS/AIPG Symposium field trip.

Other highlights of the symposium included a warm welcome by Ms. Sara Presler, Flagstaff Mayor and a presentation by Mr. Soroosh Sorooshian on the predictability of the global climate system. Mr. Bruce Aiken, Flagstaff artist and former National Park Service employee, who resided within Grand Canyon for more than 30 years, provided a wonderful lunch-time talk on the joys of living and raising a family in paradise, the challenges of managing one of the world's more unique water delivery systems, and the opportunity to develop his skills as an artist. Lively evening entertainment was provided by performing artists from the Hopi Tribe and included Native American music, song and dance.



Grand Canyon artist and former Roaring Springs resident Bruce Aiken

Conference workshops included Instructions for Technical Writing, Water Education, Project WET, GIS I Introduction to ArcGIS for the Earth Scientist and GIS II, Introduction to ArcHydro, Important Areas of Law, and a special workshop for students which presented valuable information for their first steps in the profession and the future.

During the luncheon on Monday, AHS scholarship and internship awards were presented. AHS Scholarship Award winners included Ms. Candice Atkins, University of Arizona, Mr. Fernando Alday, University of Arizona, and Ms. Karen Koestner, Northern Arizona University. The Leonard Halpenny Internship Scholar was awarded to Ms. Amy Lynn and the Herman Bouwer Internship Award was presented to M. Cheri Topel. In addition, Ms. Vicki Campo presented the 2008 Central Arizona Project scholarship awards to three students. AIPG awards were presented during the Tuesday evening dinner event at the Museum of Northern Arizona.

Joining AIPG for this event provided attendees the opportunity to mingle with geoscientists from all over the world. Launching this event with AIPG also enabled AHS to learn from professional conference planners! An event of this size required hard work and long hours for all on the planning committee and we wish to thank everyone for their dedication and tireless efforts which contributed to the overwhelming success of the 2008 symposium. Phoenix Chapter, you've a tough act to follow!



2008 Planning Committee Members (from left) Dana Downs-Heimes, Boris Poff, Margot Truini, Aregai Tecele (AHS Vice Chairman) Alan Dulaney (AHS President), Barbara Murphy (General Chairperson), David Best (AIPG Vice Chairman) and Erin Young.

Planning Committee Members not shown: Kelvin Buchanan, Robert Font, Virginia McLemore, David Palmer, Pam Palmer, William Siok , Gail Siok, Lee Allison, Don Bills, Oliver Bonham, Bruce Broster, Vicky Campo, Mike Conway, Wendy Davidson, Cathy Duran, Larry Fellows, Joey Fiore, Mike Geddis, Bill Greenslade, Brad Hill, Mike Hulst, David Kirchner, Paul Lindberg, Steve Maslansky, Christie O'Day, Manuel Regueiro, Charlie Schlinger, Abe Springer, Dan St. Germain, Paul Whitefield and John Williams.

Zuni Basin Fossil Field Trip, Oct. 10-12, near Springerville, AZ

The Phoenix Chapter along with assistance Flagstaff Chapter members, Erin Young, Fluid Solutions, & Richard Brose, Four Corners Environmental, of the Flagstaff Chapter are coordinating a field trip to a very unique spot in northeastern Arizona to examine real life dinosaur fossils! Our tour guide will be Doug Wolfe, Renaissance Environmental Management, L.L.C.

The trip is planned over the weekend of Oct. 11 – 12. Remember its four hours to Springerville and then an hour of so of dirt to get to the site. So interested participants will probably need to leave early afternoon on Friday to get to Springerville for the early Sat. departure. Folks can plan to stay in Springerville at Reeds Lodge on Friday and Saturday and return home on Sunday evening. The room rate we've been offered is very reasonable, running between \$45 and \$63 per night depending on the room type. Yes, camping is cheaper but is logistically more complicated and slows us down a lot based on Doug's experience. However, you're welcome to meet us at Reeds Lodge Sat. for an 8:30 am departure. (For more details see the Phoenix Chapter Section)

Announcement

Arizona State University, School of Sustainability

Arizona State University is proud to be the home of the nation's first School of Sustainability, located on the Tempe campus. Students who choose to pursue a degree in sustainability are asked to select a primary challenge area for their focus of study and one of those challenge areas is water. Our students and faculty share the Arizona Hydrological Society's concern with the responsible use, management, and preservation of water resources.

An important aspect of our school is our internship program. The School of Sustainability is committed to providing meaningful internships to help prepare our students for their post-graduate careers and our students are eager to apply knowledge gained in the classroom to real-world settings. Our internships are:

- Either paid or unpaid
- Part-time in the spring and fall (a minimum of 135 hours in a 16-week semester)
- Geared toward either undergraduate or graduate students
- Available for academic credit

If your business or organization is interested in providing an internship opportunity to a School of Sustainability student, please contact the internship coordinator, Amy Lively at amy.lively@asu.edu. For more information about the School of Sustainability, please visit our web site at:

<http://schoolofsustainability.asu.edu/>

For more information about the Arizona Hydrological Society, or to view current job listings and announcements, please visit our web site at:

<http://www.azhydrosoc.org/>