THE ARIZONA HYDROLOGICAL SOCIETY ~October, 2007

NEWSLETTER



Viewpoint: Last Call

Did you ever lose track of the time and race frantically through the endless corridors of a large international airport, only to arrive at your gate and see the jetliner slowly being pushed out from the ramp? Did you ever waffle over a buying decision for a souvenir and run out to the parking lot, only to see the tour bus accelerate majestically onto the highway?

Have you registered yet for ISMAR6, the International Symposium on Managed Aquifer Recharge?

We're not going to see the likes of this Symposium in Arizona anytime in the next decade, probably the next two decades. Last time ISMAR was held in Berlin, and before that in Australia. To have this crown jewel of a recharge event held within easy reach of everyone in the Southwest is a true coup for AHS. If you work with recharge projects, if you work with adequate or assured water supply applications, if you work with cities to maintain a Designation of Assured or Adequate Water Supply, then you need to be there. Getting water back into the ground is a critical facet of water management—as a consultant or a water manager or a planner, you can't afford to miss this chance to hear how the recharge is handled here and in the rest of the world. Go right now to www.ismar2007.org and get registered!

2008 Annual Symposium in Flagstaff will be a joint effort between AHS and the American Institute of Professional Geologists—the field trips should be dynamite!

Alan Dulaney AHS President 2007



And speaking of conferences that are really worth attending, wasn't that a great Regional Symposium in

Tucson? Over 550 people showed up to hear presentations and panel discussions related to water resources and the sustainability of economic growth based on further development. That's a lot of new AHS members, and I encourage everyone who possibly can to go to your Chapter meetings in Phoenix, Tucson, or Flagstaff to meet your fellow members and hear timely presentations. It took a lot of work to pull off a Symposium that successful, and I want to congratulate the entire Planning Committee, headed by Gary Burchard and Betsy Woodhouse, for all their hard work. It looks like partnering with other organizations is the wave of the future for AHS. The

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ISMAR6

International Symposium on Managed Aquifer Recharge



ISMAR6: The Sixth Annual International Symposium on Managed Aquifer Recharge

October 28 – November 2, 2007 • Phoenix, Arizona, USA

You are invited to attend the 6th Biennial International Symposium on Managed Aquifer Recharge — the world's preeminent conference devoted entirely to aquifer recharge. This event is being organized by the Arizona Hydrological Society (AHS) in partnership with IAH, ASCE / EWRI, and UNESCO. It will be held in Phoenix, Arizona, a well-known research and development center for managed aquifer recharge.

The Program

This year's program includes 3 days of <u>technical and poster sessions</u>, an IAH-MAR plenary, four exciting <u>workshops</u>, a "meet and greet" reception, and two informative field trips to learn about innovative aquifer recharge projects in the <u>East Salt River Valley in the Phoenix area and in the Las Vegas Valley in Nevada.</u>

After the conference, you can take advantage of your time in the beautiful Southwest to join a <u>sightseeing tour</u>. Choose from the Grand Canyon, the Tucson / Sonoran Desert area, and the Sedona area.

Location & venue

ISMAR6 will be held at the Pointe South Mountain Resort in Phoenix, Arizona. You can enjoy a range of outdoor activities and world-class amenities amid abundant wildlife, picturesque sunsets, and inspirational landscapes.

In addition to the many activities associated with the conference, we have also just added a post conference field trip to **Las Vegas**, **Nevada** where participants will be able to see the many recharge facilities constructed by the Las Vegas Valley Water District. These include state-of-the-art ASR wells and water treatment infrastructure. The field trip will be on Saturday, November 3 from 9am to 4:30pm. To sign up, please contact Barbara Murphy at bmurphy@clearcreekassociates.com. You can view the details of the field trip to Las Vegas on the ISMAR6 website.

DO NOT MISS OUT ON THIS OPPORTUNITY TO PARTICIPATE IN AN INTERNATIONAL CONFERENCE IN OUR VERY OWN BACKYARD!

AHS Newsletter Articles

Anyone wishing to submit articles of interest to AHS members may do so by emailing your article to jgmerideth@aol.com. Deadline is the 15th of the month prior to publication.

The AHS Editorial team reserves the right to publish or not publish your article.

TUCSON CHAPTER NEWS

Tucson Chapter Meeting October 9th Social half-hour starts at 7:00 Speaker talk at 7:30

Offices of Errol L. Montgomery & Associates, Inc. 1550 E. Prince Road

Talk title: An Update of Tucson Water's Long Range Plan and "Decision H2O"

Tim Thomure is the Water Program Supervisor for Tucson Water's Resource Planning Group. He was one of the principal developers of *Water Plan: 2000-2050* and he is currently the Utility's Clearwater Program manager.

Tim studied physical geography at the University of Illinois and geological engineering at the South Dakota School of Mines and Technology. He is also currently pursuing a Master's of Engineering through the Arizona University Partnership.

Tim worked for five years as the environmental coordinator for two gold and silver mines in the Black Hills of South Dakota. He then came to the City of Tucson in 1999 to work with the City's Stormwater Quality Section. In 2000, he joined Tucson Water and his current focus areas are recharge development, Capital Improvement, and water resources planning.

Tucson Chapter Officers

President:

MARLA E ODOM ERROL L MONTGOMERY & ASSOC INC E-Mail: modom@elmontgomery.com

Vice President:

ROBERT MCGILL HYDROGEOPHYSICS E-Mail: rob@hydrogeophysics.com

Treasurer:

MIKE MAHAN AZ GEOLOGICAL SURVEY E-Mail: mike-mahan22@yahoo.com

Secretary:

DAN GUIDO ERROL L MONTGOMERY & ASSOC INC. E-Mail: dguido@elmontgomery.com

Student Representative:

AIDA ARIK University of AZ E-Mail aarik@hwr.arizona.edu

Corporate Board:

A MICHAEL GEDDIS WATER MANAGEMENT CONSULTANTS INC E-Mail: mgeddis@watermc.com

> NICK B MELCHER US GEOLOGICAL SURVEY E-Mail: nickpaulame@msn.com



Call for Chapter Board Nominations for 2008

The Tucson Chapter will be having its annual election of Officers soon and YOU are needed. The positions that need to be filled are: President, Vice President, Secretary, Treasurer, Chapter Directors and Student Representative.

If you would be interested in giving back to AHS in this capacity please contact: Marla Odom (520-881-4912 or modom@elmontgomery.com)

Time commitment is approximately 4 to 8 hours per month.

PHOENIX CHAPTER NEWS

Dinner Meeting Location MOVING!

Here's a big heads-up: We're changing the venue for the October 9th meeting from Uno's (great venue, expensive parking) to El Penasco Mexican Kitchen (good food, free parking). El Penasco is on the southeast corner of Mill and Broadway in Tempe, 19 E. Broadway Rd. They've got a nice size banquet room with a built in projector screen.

Our speaker will be Andy Laurenzi, Land and Water Policy Program Director of the Sonoran Institute and Phoenix office manager. Andy's prior experience includes serving as the Environmental Director of the Town of Marana, Arizona; and seventeen years with The Nature Conservancy in Arizona. During his tenure at TNC his duties ranged from Public Lands Protection Planner to Regional Conservation Manager for Southern Arizona. Andy oversaw the Conservancy's government relations and public policy activities and worked first hand on issues surrounding state trust land management for over a decade. Andy and his wife Valerie have two children, Adrian and Julia age 16 and 13. He loves to backpack, fish, and play racquetball.

Andy will speak on the <u>Sustainable Water Management Report</u>: Abstract: Growth across the arid West has brought many challenges, not the least of which is reconciling the water needs of current and future residents, agriculture and industry, and plants and wildlife with the preservation of the region's remaining rivers and streams. Through the generous support of the Nina Mason Pulliam Charitable Trust and Kenney Foundation, the Sonoran Institute convened a team of water experts in Arizona to discuss the issue of sustainable water management, focusing on three case study watersheds. This report is an outgrowth of those discussions.

Location: El Penasco Mexican Kitchen

19 E. Broadway Road Tempe, AZ 85282

Speaker: Andy Laurenzi, Sonoran Institute

Chapter Board Meeting: 4:30 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

All chapter members (and non-members) are welcome to attend the board meeting too!

Chapter Board Nominations for 2008

The Phoenix Chapter nominations for Chapter Board representatives for 2008 have been set (almost). However, we are still looking for a volunteer for the position of Secretary. The Secretary is responsible for taking minutes of the Chapter Board meetings and providing a summary of each month's dinner speaker's talk for use in the following month's newsletter. The position is a good way to learn about AHS and Phoenix chapter processes and activities. Please contact Chapter President nominee Ted Lehman at ted@jefuller.com or 480-222-5709 or Chapter VP nominee Mike Hulst, at mhulst@eecphx.com or 602-248-7702 if you are interested. We look forward to working with you next year! The rest of the nominees are Beth Proffitt for Treasurer, Alan Dulaney and Keith Ross for Corporate Board, and Jacob Miller and Kirk Creswick for Chapter Board. We'd like to thank all our board volunteers for stepping forward to help out the Phoenix Chapter (again in some cases) in 2008. Thank You!

Herman Bouwer Intern 2007 Experience

My name is Vicki Mills and I was selected as the Arizona Hydrological Society 2007 Herman Bouwer Intern Scholarship recipient. This provided me with the opportunity to receive my 40 hr HazWoPER training, and to work at several agencies and companies for the remaining 7 weeks. I chose to work for 3 weeks at Clear Creek & Associates, 2 weeks at ADWR in the Geophysics/ Survey Unit and 2 weeks with ADEQ with the WQARF and UST divisions.

I spent my first three weeks at Clear Creek & Associates, where I was provided with a variety of opportunities in environmental consulting and well development. My first week was spent learning about what is involved with working in environmental consulting. I gained a lot of practical experience doing everything from sampling wells to cleaning and repair of transducers. I was also given the chance to examine and sampled a new type of well called a FLUTe well. The next 2 weeks were spent learning about the process of production well construction. I was able to participate and observe in almost every stage of the process. Although nothing on the job sites ever seemed to go as planned I believe it was an excellent learning experience. These experiences gave me a better foundation for understanding the whole process.

(Continued on page 5)

Phoenix Chapter continued

(Continued from page 4)

My 2 weeks at ADEQ was a mix of both office and field work. While in the office

I summarized Proposed Purchase Agreements, learned about Phase I, II & III site assessments, and did sensitivity testing on different variables on the equation for soil gas vapors concentrations. My field time was mainly spent with the UST division at different sites monitoring various remediation activities and collecting samples. My time there was a valuable learning experience where I gained a new understanding of how a regulatory agency interacts and communicates with businesses within the industry. I also gained a good overview of how government, industry and citizen's group work and don't work together.

I really enjoyed the change that working with the Geophysics/Survey Unit from ADWR offered me. The first week was spent mostly in the far west valley field using the gravimetric meter, to complete gravimetric loops. The data collected will be used to determine the current volume of the aquifer. The second week I was trained on how to use a survey quality GPS unit, The next few days were spent collecting measurements to determine the amount of ground subsidence that has occurred over the last 2 years in the Apache Junction Area.

I would like to give a special thanks Steve Acquafredda for his help, advice and guidance this summer, as well as the members of the committee that selected me Dave Christiana, Justin Boreson and Emily Stevenson. I would also like to thank Barry Halterman, Matt Frailey, Barbara Murphy and Gina Quinones at Clear Creek, Brian Conway and Paul Ivanich at ADWR, along with Tom DiDomizio at ADEQ for their generosity in sharing their time, knowledge and talents with me this summer.

On the lighter side, I really enjoyed meeting and working with so many wonderful people. However, I can not help wondering if Rachel from ADWR and I aren't on a terrorist watch list after speeding down the roads that surround the Palo Verde Nuclear Plant in an unmarked

truck, while trying to complete our gravimetric loops between monsoonal down pours. Schedules are more like guidelines and should be viewed with a pessimistic eye as the optimistic delusions of the PM. The "everything that can go wrong will go wrong" is rarely a one day event, so learn to love and embrace chaos. Depending on the drilling crew, a day on a drill rig can be quite entertaining and humorous, though I do suspect that how tired you are is directly proportional to amount of humor perceived. And finally after several weeks of working for the state and reading reports that looked more like acronym alphabet soup, I have broken the code and can now decipher my daughter's IM and text messages faster than she can.

Planning to Begin for 2009 Symposium in Phoenix

The Phoenix Chapter is kicking off planning for the 2009 AHS Symposium. We are currently exploring the idea of a joint symposium with the 2009 national conference of the American Institute of Hydrology (AIH). 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 lwalker@eecphx.com or 602-248-7702 or Christie O'Day at coday@acstempe.com or 480-894-5477.

2007 Event Calendar

October 9th – Andy Laurenzi, Sonoran Sustainable Water Management Report

November – Lori LaPlat, Geomatrix – Percholorate Talk

December – Tim Fitzpatrick, Laboratory Data Consultants

January – Kick-off meeting

February - Paul Westerhoff - ASU, Endocrine disruptor talk

Phoenix Chapter Officers

President: TED LEHMAN JE FULLER HYDROLOGY & GEOMOR-PHOLOGY E-Mail: ted@jefuller.com Vice-President: MIKE HULST EEC INC E-Mail: mhulst@eecphx.com Treasurer:
BETH PROFFITT
TRANSWEST GEOCHEM INC
E-Mail: eproffitt@transgeo.com

Secretary:
MATTHEW BEVERSDORF
ADWR
E-Mail: mabeversdorf@azwater.gov

FLAGSTAFF CHAPTER NEWS

It's never too early to start early!

Representatives from the AHS Flagstaff Chapter and the AHS Corporate Board president along with representatives from the American Institute of Professional Geologists (AIPG) met in Tucson on August 29th, to formulate and discuss the activities of a joint steering committee in preparation for a combined 2008 Symposium in Flagstaff.

AHS has made reservations for the conference to be held at the new Flagstaff Conference Center, located at the northwest corner of Northern Arizona University. This beautiful new venue is scheduled to be completed in Spring 2008 and we are thrilled the facility will accommodate planned Symposium participants from both organizations.

Items discussed during the planning meeting include assignment of personnel to the Steering Committee, who will oversee the actions of various planning committees. Planning committees include those for fundraising, speakers, workshops, technical sessions, field trips, student participation, and of course, financial oversight, and will have representatives from each organization.

As a nationwide organization, AIPG will provide their knowledge and experience to conference planning, and we expect attendance and contributions from AIPG members from all over the globe! AHS will bring the regional flavor to the symposium to introduce and discuss the concepts of changing water ethics to industry professionals.

Tucson, you're a tough act to follow, but so far, we've got a good line up, and promise a great Symposium for 2008!

Our September 29 Inner Basin field trip was sold out! We'll summarize the fun we had talking water at 9,500 feet elevation next month!!!

Flagstaff Chapter Officers

President Aregai Tecle Northern Arizona University aregai.tecle@nau.edu

Vice President Corporate Board Member Margo Truini USGS

mtruini@usgs.gov

Secretary Erin Young Fluid Solutions eyoung@flusol.com

Treasurer
Dana Downs-Heimes
ddownshe@ch2m.com

How to visit the AHS Members Only area:

- Go to: www.azhydrosoc.org
- Located on the far right side of your screen click on Members Only
- Type in your username and password: Your username is the first initial of your first name and then your last name

(ie Flo Waters would be FWaters). Your password is your zip code (that we have on file for you).

Once there you have access to documents that are not available on the public site.

REMEMBER you must be a currently paid member of AHS to have access.

Announcement

News Release

U.S. Department of the Interior U.S. Geological Survey

For release: September 24, 2007

Contact: David W. Anning, 928-556-7139, dwan-

ning@usgs.gov

Jennifer LaVista, 703-648-4432, jlavista@usgs.gov

Decreases in Salinity Noted in Southwestern Streams Editors Note: Maps, graphs, and reports supporting this information are at: http://water.usgs.gov/nawqa/studies/mrb/salinity.html

The U.S. Geological Survey (USGS) released a report today describing salinity levels in streams and ground water in parts of Arizona, California, Colorado, Nevada, New Mexico, Utah and Wyoming. The report concludes that although salinity varies widely throughout the region, levels have generally decreased in many streams during the past two decades. Elevated salinity levels, or concentrations of dissolved solids, can limit the suitability of water for many uses, including agricultural production and drinking water.

Trends in dissolved-solids concentrations in streams were evaluated from 1974 through 2003. "The greatest change occurred during 1989 to 2003, when annual dissolved-solids concentrations decreased at more than half of the sites throughout the region," explained lead author and USGS hydrologist Dave Anning. "The reductions were widespread, as indicated by decreases at nearly all of the sites on the main stem of the Colorado and Green Rivers. We also noted increases at about one-third of the sites, while the remaining sites showed no trends."

Decreases in salinity are attributed, in part, to natural causes, such as geomorphic changes or climate variations. They also may be associated with human-related factors, such as changes in land and water use, reservoir management, trans-basin exports, and implementation of salinity-control projects. Salinity control projects include activities like using low water-use irrigation systems and re-directing saline water away from streams.

USGS findings show that dissolved solids decreased from 1989 through 2003 at all sites downstream from salinity-control projects, and that the decreases were greater than decreases upstream from projects. For example, estimated annual loads of dissolved solids in the Gunnison River in the Upper Colorado River Basin decreased by about 162,000 tons per year downstream from the Lower Gunnison salinity-control unit, in contrast to a decrease of only 2,880 tons per year upstream from the unit. This net decrease is about 15 percent of the annual load in the lower Gunnison River.

"This is good news," said Dr. Robert Hirsch, Associate Director for Water, "and shows successes from the region's investments in salinity control over the past several decades." Salinity-control projects have been implemented since the mid -1970s by the Bureau of Reclamation, U.S. Department of

Agriculture, and the Bureau of Land Management to control salinity of water delivered to Mexico, per the 1974 Colorado River Basin Salinity Control Act.

USGS has been monitoring salinity levels in streams and ground water in the southwest for more than 30 years. Trends in dissolved-solids concentrations were less apparent in ground water than in surface water. Salinity levels varied throughout the basin-fill aquifers underlying the southwest, but generally were below 1,000 milligrams per liter. Concentrations exceeded the U.S. Environmental Protection Agency secondary drinking-water standard of 500 milligrams per liter (established for taste and hardness) throughout about half of

The USGS study also documents the variability of salinity throughout the region – from 22 to 13,800 milligrams per liter in streams.

"We know that both natural factors and human activities affect salinity. Through new geo-statistical modeling techniques, we were able to show that land- and water-use activities, primarily associated with pasture and cultivated land, contribute more than half (56 percent) of the salinity to streams, whereas natural geologic materials provide the remaining 44 percent," said Anning.

"High quality water is key to meeting the multitude of water uses in the southwest," Hirsch went on to explain. "This USGS assessment provides a rich source of information about salinity in surface water and ground water, with detailed maps, graphs, and tables. This report provides reference information that will be used by water managers throughout the region for years to come."

The report, "Dissolved Solids in Basin-Fill Aquifers and Streams in the Southwestern United States," U.S. Geological Survey Scientific Investigations Report 2006-5315, is available on the Internet at http://water.usgs.gov/nawqa/studies/mrb/salinity.html (printed copies will be available early November). Also available on the Internet site is an interactive, user-friendly mapping tool to evaluate the spatial distribution and sources of dissolved solids in streams and ground water. USGS provides science for a changing world. For more information, visit www.usgs.gov.

Subscribe to USGS News Releases via our <u>electronic mailing</u> <u>list</u> or <u>RSS</u> feed.

www.usgs.gov

Jennifer LaVista Public Affairs Specialist U.S. Geological Survey, Office of Communications 703-648-4432

Email: jlavista@usgs.gov

Announcements

Donations to
AHS Foundation are
considered charitable
501(c)(3)
for tax purposes.

Donations of any amount may be sent to the AHSF Treasurer or the AHSF President.
AHS Foundation
A. Michael Geddis,
Treasurer
3845 N Business
Center Dr #115
Tucson, AZ 85705

The AHS web site has a new document posted for your information. "A Strategy for Federal Science and Technology to Support Water Availability and Quality in the United States". The document was prepared by the Executive Office of the President of the United States.

Did you know that AHS has a



page on our web site? Visit:

Www.azhydrosoc.org and then click on JOBS to view the most recent postings. If you would like to post an opening just email it to jgmerideth@aol.com and Jeanie will post it for you.

2008 MEMBERSHP DUES

It's getting to be that time again. If you did not attend the AHS Annual Symposium you will be emailed an invitation soon to renew your AHS Membership dues for 2008. Your membership is very important to us and we hope you will consider renewing promptly when asked.

Dues, payable to AHS (\$45.00, \$15.00 for students) should be sent to:

Arizona Hydrological Society
Jeanie Merideth, Association Manager
PMB 139; 3305 N. Swan Road #109
Tucson, AZ 85712
Phone: (520) 299-6787

Dues may also be paid using our "Online Payment" system. Go to

www.azhydrosoc.org

And click on "Join or Renew Online" and have your credit card ready. AHS accepts Visa, MasterCard and American Express.

New from the University of Arizona Press

The Petton of Green

"This book is likely to serve as an important reference on plant ecology, riparian ecology, and ecosystem restoration in the Southwest."

— Jonathan Friedman, Associate Editor

The authors draw provocative conclusions about the direction and magnitude of the changes in species composition in riparian woodlands and forests. The observations about the interplay between damoper ation and riparian vegetation are valuable, and the discussion about fire is thought-provoking. This is especially timely."—Julia Forusez, Environmental Program Manager, Pima County Hood Control District, Autzona

THE UNIVERSITY OF ARIZONA PRESS

355 S. Euclid Ave., Suite 103, Tucson, AZ 85719 orders: 1-900-426-3797 (voice/fax) email: orders@uapress.arizona.edu Visit our Web site http://www.uapress.arizona.edu : A landmark study of riparian change in the Southwest

The Ribbon of Green

Change in Riparian Vegetation in the Southwestern United States

ROBERT H. WEBB, STANLEY A. LEAKE,

Woody wetlends constitute a relatively small but extremely important part of the landcape in the southwestern United States. These riparian habitats support more than one-third of the region's vascular plant species, are home to a variety of wildlife, and provide essential howers for dozens of migratory animals. Because of their limited size and disproportionarily high blookgolds value, the goal of protecting wetland environ-

In The Biblion' of Green, hydrologists Robert H. Webb, Stankey A. Leaker, and botanist. Raymond M. Turrer essmine the factors that sifect the stability of woody riparian regation, one of the largest components of riparian areas. Factors that affect the stability of woody riparian regatation include the diversion of surface waster, flood control and the excessive use of ground water. Combining repeat photography with historical contests and information on a species composition, they document more than 14D years of change. Contrary to the common assumption of widespread losses of this type of ecosystem, the suthers show that wegetation has increaded on many river reaches as a react of flood control, lavorable climatic conditions and large winter floods that a world and the control through the control of th

Bringing well-documented and accessible insights to the ecological study of wetlands though well influence our perception of change in riparian ecosystems and how riparian reasonation is practiced in the Southwest, and it will serve as an important

ROBERT H. WILDI is a research hydrologist with the Water Resources Division of the U.S. Geological Survey. His other books include Grand Carport, 64 centry of Charge pand Roods, Orneighes, and Climate Charge, both guildrighed by the University of Assams Press. STANIEY A. LEAKS is a research hydrologist with the Water Reporters Division of the U.S. Geological Survey as well and has guildright mercus articles in the journals Water Resources Research and Ground Water. Better his tremement, RAYMOND, M. LIMBER was a botanist with U.S. Geological Survey, and his other books include Someran Desert Plants Art Ecological Astas, stor published by the University of Assams Press. Turner and Webb are also the authors of The Charging Mild Resistants. An Ecological Starby of Vagetation Change with Time in the Lower Mile et an Arts and Research Resour.

May 2007

490 pp., 473 photographs, 113 illustrations, 23 maps, 9 x 12 ISBN-10: 0-8165-2588-9, ISBN-13: 978-0-8165-2588-1**.578:00s** cloth **56**0.00

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Announcement

Hidrología, Uso y Manejo del Agua en Zonas Aridas



(For US interested parties: for more information and confirm attendance, please contact:
Mario Castaneda, GateWay Community College 602-286-8663; Castaneda@gatewaycc.edu



Drinking Water Treatment Plant

Universidad de Baja California Sur



Binational Water Forum La Paz, B.C.S., México

Hotel Los Arcos
La Paz, B.C.S, Mexico
http://www.losarcos.com/
(There is a special rate for attendees)

October 18-20, 2007 (Please confirm by August 31, 2007)

COST: \$200 Dlls (\$100 Dlls for presenters)

(includes the attendance certificate, copy of the presentation materials, light refreshments, and a field trip to a wastewater treatment plant in La Paz and a desalting plant at Los Cabos).

Participating Agencies and Institutions:

BCS State Congress Water Commission

Drinking Water Municipalities from La Paz, Los Cabos, Loreto, Comondú, and Mulegé

University of Baja California Sur: Department of Hydrology, Use and Water Management in Arid Zones.

Confederación Nacional Agronómica de México

Arizona Water Institute

Arizona Water Pollution Control Association

FORUM OBJECTIVES

Arizona (USA) and Baja California Sur (México) are experiencing drought-related problems. The objectives of this forum are to:

- Share experiences between Arizona and Baja California Sur on water quantity-quality problems
- Strengthen the collaboration efforts between Arizona and Baja California Sur to address those water shortage issues.

The forum will focus on these four areas:

- Reclaimed water reuse
- Sewage sludge reuse in agriculture and biogas production
- Management, treatment, use, and training on waterwastewater
- Sustainable water management and use in rural and coastal regions

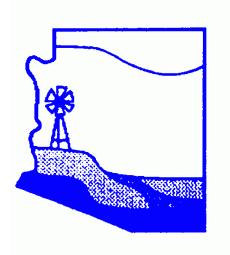
The forum is for drinking water and wastewater agencies, institutions, academics, researchers, industry and the general public engaging in finding solutions to these water-related issues.

(Simultaneous translation will be provided)

For more information about the City of La Paz, México and the different city attractions, please visit:

http://www.vivalapaz.com/

MEMBERSHIP APPLICATION



Arizona Hydrological Society

Jeanie Merideth **Association Manager** PMB #139; 3305 N. Swan Rd. #109 Tucson, AZ 85712 (520)299-6787 Fax: (520)299-6431 azhydro@comcast.net

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