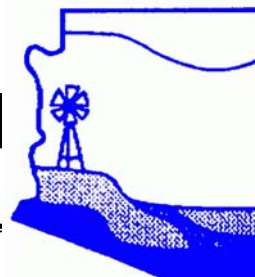


NEWSLETTER



Viewpoint: ISMAR6

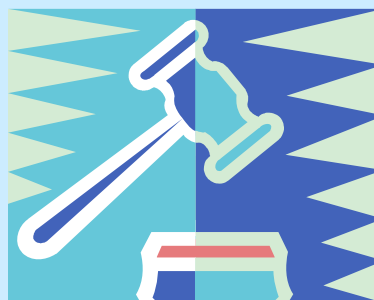
One measure of a professional organization dedicated to the goal of professional development and education is the quality of events that it puts on or participates in. The Arizona Hydrological Society starting organizing our first Annual Symposium some 20 years ago. Through the years we have held symposia on water issues every year, first in Casa Grande to facilitate attendance from both the Phoenix and Tucson Chapters, and then rotating amongst the three chapters. Some of our meetings have been great, and some have been less memorable, but all served the membership. Over time we added other types of meetings, such as the Landfill Symposium and the Recharge Symposium, all aimed at disseminating information amongst those interested in water issues. I think the Society has done a pretty good job.

As I write this, the 2007 Regional Water Symposium is just about to start. It is a major event, over 500 people big because we are co-hosting it with Southwest Hydrology, but it is only one of the major events that your Society is organizing this year. The other major event coming up soon is ISMAR6, the Sixth International Symposium on Managed Aquifer Recharge. If the 2007 Symposium was regional in extent, the reach of ISMAR is international. You will meet experts in recharge from across the globe as they gather to discuss all aspects of storing water underground. The networking potential of this meeting is tremendous. What you will learn from the technical sessions, workshops, and field trips is priceless. The setting is the Pointe South Mountain, a premier resort of the Phoenix area, and special room rates are available.

The Society has undertaken a major role in two high-profile, high-risk events this year. Both address critical issues for water professionals working in the semi-arid Southwest and other regions as well. This is what AHS does, through its many dedicated volun-

teers, and it is why your membership in the organization is valuable to you and the water community as a whole. I urge you to sign up right now for ISMAR6—you simply can't afford to miss it. Go to www.ismar2007.org and register on-line for this important meeting.

Alan Dulaney
AHS President 2007



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2007 AHS Annual Meeting



**President Alan Dulaney
Presiding**

More information about these winners will be reported in the next newsletter.

**Jacob Wesley Sprinkle
Scholarship Winner**



**Mohammed A. Keshta
Scholarship Winner**



**Jeff Gawad
Halpenny Intern Winner
Tucson Chapter**



**Vicki Mills
Bower Intern Winner
Phoenix Chapter**

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 [technical and poster sessions](#), an IAH-MAR plenary, four exciting [workshops](#), a "meet and greet" reception, and two informative field trips to learn about innovative aquifer recharge projects in the [East Salt River Valley in the Phoenix area and in the Las Vegas Valley in Nevada](#).

After the conference, you can take advantage of your time in the beautiful Southwest to join a [sightseeing tour](#). 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.

PHOENIX CHAPTER NEWS



Call for Chapter Board Nominations for 2008

It may seem a little premature, but in fact it's not. Election season is just around the corner.

The Phoenix Chapter is seeking nominations for Chapter Board representatives for 2008. All offices are up for grabs – President, Vice President, Treasurer, Secretary, two Chapter Board positions, and two Corporate Board positions. 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 Note
No September
Meeting

2007 Event Calendar

September – no meeting
 October 9th – Andy Laurenzi, Sonoran Sustainable Water Management Report
 November – Lori LaPlat, Geomatrix – Perchlorate 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 & GEOMORPHOLOGY
 E-Mail: ted@jefuller.com

Vice-President:

MIKE HULST
 EEC INC
 E-Mail: mhulst@eecphx.com

Treasurer:

BETH PROFFITT
 TRANSWEST GEOCHEM INC
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Secretary:

MATTHEW BEVERSDORF
 ADWR
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Board Members:

JACOB MILLER
 URS CORP
 E-Mail: Jacob-Miller@URSCorp.com

CHRISTIE M O'DAY
 ARCHEOLOGICAL CONSULTING SERVICES LTD
 E-Mail: coday@acstempe.com

Corporate Board Members:

ALAN R DULANEY
 ADWR
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PAUL PLATO
 CLEAR CREEK ASSOCIATES
 E-Mail: pplato@clearcreekassociates.com

LEE-ANNA WALKER
 Engineering and Environmental Consultants, Inc.
lwalker@eecphs.com

Phoenix Chapter continued

Mark your calendar for October 9, 2007

Andy Laurenzi is Sonoran Institute's Land and Water Policy Program Director, and manages the Phoenix office. 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.

Sustainable Water Management: Meeting the Needs of People and Nature:

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 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 in Arizona: the Upper San Pedro, upper and middle Verde and upper Santa Cruz rivers. This report is an outgrowth of those discussions.

**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**

Sustainable Water, Unlimited Growth, Quality of Life



2007 Regional Water Symposium is now history. What a great event with over 500 people attending. More follow up on the Symposium in the next newsletter.

FLAGSTAFF CHAPTER NEWS

The Flagstaff Chapter of the Arizona Hydrological Society would like to invite you on our Fall field trip, Saturday September 29, to the Inner Basin Well Field. Randy Pellatz, Utilities Director for the City of Flagstaff, will lead this trip and discuss the history of the well field and the City's water supply as a whole. We will access the base of the well field by Government vehicles and hike roughly 2 miles round trip starting at an elevation of about 9400 feet. We will have lunch within the Inner Basin among the Fall colors, towering peaks, and unique alpine terrain. This is a trip you won't want to miss! While we expect nice weather, Flagstaff has recorded snow as early as mid-September. Please RSVP, as space is limited to 25 people, with Margot Truini at mtruini@usgs.gov. Cost is \$15 and includes lunch and transportation from the base of Schultz Pass Road.

Trip Details: We will meet at 9am at the Schultz Pass Road parking area off 180 and Elden Lookout Road (directions below). We expect to be back to the parking area by 3:30pm. Directions to parking area: From Downtown Flagstaff and Route 66 head north on Humphreys Street. After 0.6 miles turn left onto W Columbus Ave/US-180. After 2.4 miles turn right onto N Schultz Pass Rd. After about 0.2 miles the road will 'Y' and you can park your car in the dirt lot between the two roads.

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

Hidrología, Uso y Manejo del Agua en Zonas Áridas



(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 water-wastewater
- ◆ 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/>

TUCSON CHAPTER NEWS

Tucson Chapter meeting

September 11 2007

Errol L. Montgomery & Associates, 1550 E. Prince Road on.

Social half-hour at 7:00, speaker at 7:30

David M. Meko, Biographical Sketch

Dr. Meko is an Associate Research Professor at the Laboratory of Tree-Ring Research at the University of Arizona. He has a B.S. in Meteorology from Penn State, and an M.S. in Atmospheric Sciences and Ph.D. in Hydrology and Water Resources from the University of Arizona. He teaches a course in time series analysis through the Geosciences Department, and conducts various research projects applying tree rings to study hydroclimatic variations. His main research interest is statistical modeling of the hydrologic signal in tree rings. He has applied this modeling in the western United States to streamflow reconstructions on the Gila, Salt-Verde, Sacramento and Colorado Rivers. His current work is interdisciplinary, and focuses on making paleoclimatic information relevant to water management. Ongoing studies are supported by the Salt River Project, the U.S. Bureau of Reclamation, and the California Department of Water Resources

Abstract

Medieval Drought in the Upper Colorado River Basin

Tree-ring reconstructions for the Colorado River at Lees Ferry, Arizona, have consistently indicated that the modern gaged flow record is unrepresentative of the past few centuries both in the long-term mean annual flow and the severity of extended hydrologic droughts. Information on past droughts can be considered most reliable for the past 500 years, when tree-ring site coverage is relatively dense. This relatively "recent" part of the tree-ring record identifies the late 1500s as the most severe multi-year drought, and emphasizes the spatial coherence of droughts and wet periods over the Upper Colorado River Basin. Tree ring samples from logs, stumps, and dead standing tree have recently been analyzed in an attempt to extend the tree-ring record of the Colorado River back to the period known as the Medieval Climate Anomaly (MCA), roughly A.D. 900-1300, which other paleoclimatic evidence points to as a time of exceptional swings in moisture conditions over the Southwest. The singular multi-decadal event identified by the new analysis is persistent drought in the mid-1100s: thirteen consecutive years were below the modern gaged mean, and no very high annual flows occurred over an interval of six decades. If such a drought were to occur today the results would likely be devastating to water supplies in the Southwest. Key sources of uncertainty in the extended tree-ring record are low site coverage and sample replication in the tree-ring network, as well as limitations imposed by tree-ring data processing on the lowest discernible frequencies of climate variation.

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.

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:

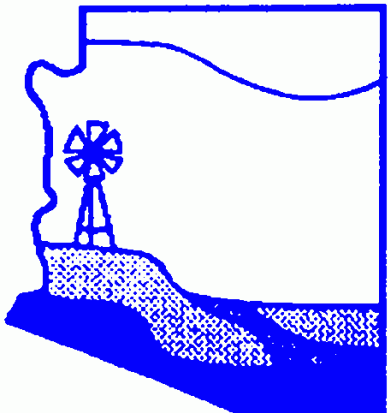
AIDA ARIK
University of AZ
AARIK@HWR.ARIZONA.EDU

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

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

www.azhydrosoc.org

ARIZONA HYDROLOGICAL SOCIETY c/o Jeanie Merideth Association Manager
PMB #139; 3305 N. Swan Rd #109, Tucson, AZ 85712
Membership Application (Dues: 1 year \$40, \$15 for students)

Name: _____ Position: _____

Company: _____ Email: _____

Mailing Address: _____

Work Phone: _____ Home Phone: _____ Fax: _____

In addition to my dues, I am enclosing

\$ _____ Herman Bouwer Intern Scholarship fund (Phoenix),
\$ _____ Leonard C. Halpenny Intern Scholarship fund (Tucson),
\$ _____ for the SARSEF Scholarship fund,
and/or \$ _____ for the state-wide AHS General Scholarship fund.

Total amount enclosed: \$ _____

Chapter Affiliation:

_____ Tucson

_____ Phoenix

_____ Flagstaff