
BULLETIN

Spring 2005

"American Institute of Hydrology, the Society for Registered/Certified Hydrologists"

Volume 23, Issue 1



Abstracts Wanted for 2006 AIH Annual Conference

The American Institute of Hydrology (AIH) will be celebrating its **25th Anniversary** during 2006. During the past 25 years, the AIH has prospered and grown to an international membership of approximately 1,000 members. AIH has fostered the professionalism of the practice of hydrology through its registration program, annual meetings (both domestic and international), journal, awards and reputation. It is appropriate and desirable to commemorate the accomplishments of AIH and to plan a unique celebration of the Institute during this anniversary year.

To participate in this Special Occasion and present a paper, please submit a 250-word abstract of your paper to AIH Headquarters by **July 15, 2005**. Speakers will be notified of their acceptance by **August 15, 2005**. The abstract must include the title of the paper, as well as each author's name, affiliation, address, telephone, fax, and email address. Please indicate your presentation preference (oral or poster) and the name of the presenter. Authors of accepted abstracts will receive instructions for the preparation of full-length camera-ready manuscripts. All accepted papers will be peer-reviewed and published as the Proceedings of the Conference.

STUDENT COMPETITION

The 25th Anniversary Meeting will be an excellent opportunity for student oral and poster presentations. Prizes will be awarded for the Best Student Paper and Best Student Poster. To participate in this event, submit an abstract of 200-250 words to AIH by **July 15, 2005**. Posters and papers accepted for presentation at the conference have an expanded opportunity to be published in the conference proceedings distributed at the meeting.

Award Nominations Needed

The nomination period for the C.V. Theis and R.K. Linsley Awards is now open to all members in good standing, until September 1, 2005. The **C.V. Theis Award** was first established in 1986 by the Institute and is named in honor of C.V. Theis for his leadership and contributions to the field of ground-water hydrology. The **R.K. Linsley Award** was established in 1988 and is named in honor of Ray K. Linsley for his leadership and contributions to surface water hydrology. AIH has chosen 33 individuals to receive these awards since their inception. Recipients are chosen because they have shown leadership and have made substantial contributions in their respective sub discipline of hydrology.

Nominations may be submitted to the AIH awards committees by sending your recommendation with a one page justification to aihydro@aol.com.

Soliciting Suggestions to Name New Award

In 2006, the American Institute of Hydrology celebrates 25 years of service to the hydrologic profession. To commemorate the occasion, the Executive Committee has established the **Water Quality Award** in addition to its current citations. We are asking the membership to suggest names of people that have contributed significantly to the hydrologic discipline of water quality. This individual should be a clear leader or "Icon" in the field of water quality, having made significant contributions that set the standard for the water quality discipline of the hydrologic science. Please provide information - a brief introduction - as to why you feel this individual should be honored this way.

Send in your suggestion of people that we would name the award after, to the AIH Headquarters - or email us at aihydro@aol.com. The Water Quality Award name will be announced at our 25th anniversary celebration in Baton Rouge, Louisiana meeting in May 2006.

In This Issue

- 2006 - AIH's 25th Anniversary Meeting
- Application Fee Waived for 3 Month Period
- The Proposed State of Colorado Interbasin Water Compact
- Storage & Disposal of Document
- In Memoriam of Professor Nakao
- Recertification Program Revised
- 2004 Recertified Members
- Job Postings
- New Member Benefit
- Meeting, Conferences and Short Courses
- Test Questions Needed
- Member Feedback Form

Editorial Board

BJ Seaburn, Editor/Publications Manager
American Institute of Hydrology
300 Village Green Circle, Suite 201
Smyrna, GA 30080; Tel: 770-384-1634
Email: Bjesterstudio@aol.com

The AIH Bulletin is the official publication of
American Institute of Hydrology
300 Village Green Circle, Suite 201
Smyrna, GA 30080
Tel. (770) 384-1634 Fax (770) 438-6172
E-Mail: AIHydro@aol.com
Web Page: www.aihydro.org

Material published in this newsletter may be reprinted with proper attribution. AIH is a professional organization providing certification of competent professionals, in all fields of the hydrologic sciences. The Institute is dedicated to the advancement of hydrology and hydrogeology as a science and profession, and to the professional education and advancement of its members. Contributions and articles of interest to the general membership of AIH are welcomed and should be submitted to the AIH office. Advertisements should also be submitted to the AIH office.

Advertisement Rates are as follows:

SPACE	RATE	SIZE
1 page	\$595	9½ x 7½"
1/2 page	\$349	9½ x 3½" (1 column)
1/2 page	\$349	4½ x 7½" (1 banner)
1/4 page	\$199	4½ x 3½" (1/2 column)
1/8 page	\$125	2¼ x 3½" (1/4 column)

Advertisers agreeing to publish an ad in three consecutive issues will receive FREE publication in the fourth issue.

Emails for the Executive Committee

M. Marino mamarino@ucdavis.edu
P. Leahy pleahy@usgs.gov
A. Laenen alaenen@earthlink.net
L. Ormsbee lormsbee@enr.uky.edu
C. Fetter cwfetter@aol.com
M. Aral maral@ce.gatech.edu
E. Witt ecwitt@usgs.gov
R. Hordon Hordon@rci.rutgers.edu
D. Glysson gglysson@usgs.gov

Email / Web Page Addresses of AIH

AIH Office AIHydro@aol.com
AIH Web Page www.aihydro.org
AIH Web Manager bjesterstudio@aol.com

PRESIDENT'S MESSAGE

In addition to monthly telephone conferences, the Executive Committee met in Atlanta during April 28-29, 2005, to set goals and to establish priorities for AIH. One of the items addressed at the meeting was the simplification of the recertification process. Effective June 1, 2005, members requiring recertification will complete, sign, and return a one-page survey to the AIH. The **Recertification Survey** will be available on-line (www.aihydro.org). The signed, one-page survey will be the member's certification that he/she has completed the requirement for certification. No other documentation will need to be submitted.

This year's **C. V. Theis Award Committee** is composed of Tom Dunne (chair), Gil Cochran, and Ken Brooks. The **R. K. Linsley Award Committee** is made up of Miguel Medina (chair), Jim Cruise, and Marty Teal. Nominations for these awards may be submitted to the aforementioned award committees by sending your recommendation with a one-page justification to aihydro@aol.com, no later than September 1, 2005. We are also soliciting nominations for the Founders Award. Award recipients will be announced at our 25th Anniversary meeting in Baton Rouge, Louisiana, May 21-24, 2006. In addition, a new water quality award will be unveiled at our 25th Anniversary meeting. We are soliciting suggestions for the naming of this award.

To benefit its membership, AIH has become affiliated with **Lockheed Georgia Employees' Federal Credit Union (LGEFCU)**, with shared service center locations around the country. The latter allow members of participating credit unions to conduct most of their business as if it were their own credit union branch. For services provided by LGEFCU please call 1-800-541-8921 or visit www.lgefco.org.

Herb Garn, chairman of the **Examination Committee**, is seeking volunteers to serve on the Committee and to provide multiple-choice questions for each of the examinations. He is particularly interested in receiving questions in the area of water quality. We are planning to administer the first water quality exam toward the end of the year.

As a cost-saving mechanism, this will be the last hard-copy of the AIH Bulletin mailed to the membership. In the future, the Bulletin will be mailed electronically. Please let us know if this is not acceptable to you.

Miguel Marino
AIH President



American Institute of Hydrology 25th Anniversary Meeting

& International Conference

on

"Challenges In Coastal Hydrology and Water Quality"

May 21 - 24, 2006

Baton Rouge, Louisiana, USA

CONFERENCE INTENT

More than half the world's population lives within a distance of 100 km from the coastline, and this number is expected to increase by 25% in the coming two decades. The population growth and urbanization have largely altered the natural pathways of coastal waters that are vital to the coastal environment. As most of the water on land surface enters into the oceans, man's activities in both coastal and inland watersheds have led to increased loading of sediment, toxic substances, nutrients and pathogens with subsequent eutrophication, algal blooms, and hypoxia. Climate change has led to the rise in sea level with loss of coastal wetlands and to increased saltwater intrusion. The recent tsunami in the Indian Ocean has again alarmed man's vulnerability to nature. World's coasts are facing increasingly serious environmental challenges, while it is not clear how to fully measure the complexities of coastal systems.

This conference aims to provide an international forum for the dissemination and exchange of information in coastal hydrology, hydraulics and water quality. The conference will stimulate interdisciplinary research, education, management, and policy making from physical, biogeochemical, and socioeconomic perspectives related to complex environmental systems in coastal regions. Discussions will also take place on hydraulic engineering and structures in coastal areas, which are frequently densely populated or sites of major industrial development. The topic of coastal petroleum and land subsidence will also be addressed.

CONFERENCE VENUE

The conference will be held at:

Holiday Inn Select & Executive Center
4728 Constitution Avenue
Baton Rouge Louisiana

The conference rate will be \$81 plus tax (USD) per night, for single or double occupancy. Rooms must be reserved before **April 19, 2006** by directly calling:

800-678-4065 or 225-925-2244
Online at www.holiday-inn.com (Code C94)

Please indicate that you are participating in the AIH Conference,
Block Code C94.

WHO SHOULD ATTEND

This conference is recommended for scientists and engineers in all fields of the hydrologic sciences, government officials with environmental responsibilities, land-use planners, students of hydrology, hydrologists wishing to become registered, and all other persons dealing with water-related issues. This conference will provide a forum for discussion and exchange of information on a broad spectrum of areas in hydrology, hydrogeology, water-quality, water resources, planning and management, aquatic and marine biology, and climatology.

TECHNICAL PROGRAM

- Plenary Opening Session, Central Theme: The Mighty Mississippi and Coastal Louisiana - Past, Present and Future
- Hydrologic and Coastal Processes
- Hydrological Pathway from Terrestrial to Coastal Ecosystems
- Large River Engineering and Management
- Fluvial Processes and Sedimentation
- Flood Control and Disaster Assessment
- Surface and Ground Water Interaction in Coastal Regions
- Fresh Water Resources and Saltwater Intrusion
- Eutrophication and Hypoxia in Coastal Waters
- Coastal Erosion
- Coastal Wetlands and Floodplains
- Coastal Wetland Restoration
- GIS Applications in Coastal Hydrology Studies
- Extreme Weathers
- Socioeconomic Impacts of Extreme Weathers
- Potential Global Change Effects on Coastal Water Resources
- Coastal Water Quality and TMDLs

! Important Notice about Venue !

All members are asked to book their hotel reservations for our 2006 Conference in Baton Rouge, Louisiana, directly through the hotel, Holiday Inn Select Executive Center, and avoid any internet travel providers. AIH will not be given credit towards its master account commitment should you book your room outside of the hotel. This is part of the way that AIH can contain its expenses for conferences. Make sure you identify yourself as a participant of the American Institute of Hydrology's conference. Thanks for your cooperation.

Continued on Page 4

EXHIBITORS

Exhibit booths will be located in conjunction with poster presentations and break refreshments. This will guarantee direct access to the professionals who are actively employed in the field of hydrology. For information on displaying your product or service at this conference, please contact the AIH office directly at **770-384-1634** or send an email to AIHydro@aol.com.

PROPOSED FIELD TRIPS

- Atchafalaya River Basin (Mississippi Diversion)
- Mississippi River Delta National Wildlife Refuge (deltaic development)
- Constructed LaBranche Wetlands (wetland restoration)
- Houmas House - Plantation & Gardens
- Alligator Bayou - Swamp Tour & Wilderness Adventure

SHORT COURSES

- HEC RAS
- MikeShe
- Hydrologic Field Methods

CONFERENCE CHAIRPERSONS

- **Vijay P. Singh**
Department of Civil and Environmental Engineering
Louisiana State University, USA
Phone: 225-578-6697
Fax: 225-578-8529
- **Y. Jun Xu**
School of Renewable Natural Resources,
Louisiana State University, USA
Phone: 225-578-4168
Fax: 225-578-4227

CONFERENCE PLANNING COMMITTEE

- Pinki Diwan, LSU Foundation
- Jane Hess, BRACVB
- Pat Leahy, USGS
- Miguel Marino, UC, Davis
- Larry Rouse, Louisiana State University
- Daniel Thomas, Louisiana State University
- Clinton Willson, Louisiana State University

CONFERENCE ADVISORY COMMITTEE

Charter

The 25th Anniversary Advisory Committee
The American Institute of Hydrology

The American Institute of Hydrology (AIH) will be celebrating its 25th anniversary during 2006. During the past 25 years, the AIH has prospered and grown to an international membership of approximately 1,000 members. AIH has fostered the professionalism of the practice of hydrology through its registration program, annual meetings (both domestic and international), journal, awards and reputation. It is appropriate and desirable to commemorate the accomplishments of AIH and to plan a unique celebration of the Institute during this anniversary year.

Advisory Committee:

Dr. L. Douglas James - Chair
Dr. Alex Zaporozec
Dr. Vijay Singh
Dr. Ken Brooks
Dr. Joe Rosenshein
Dr. Gerald Seaburn

Organized with the cooperation of:

LSU
Louisiana State University

Storage & Disposal of Documents

Storage and Disposal of Application and all supporting documents. The nature of activities required to support the many programs of AIH, generate a substantial volume of paper, often in duplicate or triplicate. When an activity is completed, the application and supporting documents are filed in an active filing system for future reference. For example, the Application for Membership requires an original and two complete copies, along with a substantial amount of other supporting documents, reports, transcripts, references, resumes, etc. that the candidate feels is necessary for a complete description of their skills and experience.

To slow the pace of the consumption of storage space in AIH Headquarters, AIH has adopted with approval from the Executive Committee, the following operating policy: "At the completion of all AIH activities, the staff will review the file for new material. All excess, duplicate, triplicate and irrelevant documents will be purged from the file and disposed. AIH will make no attempt to contact the author to arrange other plans. If the authors ask for the return of the selected material from their file, there will be a minimum charge of \$100 that must be paid to cover the cost of labor, shipping and handling of the materials to the author. All selected materials will be sent to permanent disposal on a random schedule. At the completion of this file review, the file must contain one copy of all essential documents that completely support the activity.

The Proposed State of Colorado Interbasin Water Compact

By Richard T. Raines, P.H. #1590
Applegate Group, Inc.
www.applegategroup.com

Colorado sits in the fortunate position of having the headwaters of several major river systems originate within its borders. These watersheds include the South Platte, North Platte, Colorado, Arkansas, and the Rio Grande River. Each of these river systems has a compact to determine the allocation of the water between Colorado and the downstream state or states.

Colorado also faces the continuing dilemma of how to meet an increasing demand for water with a finite supply. The problem is compounded because the increasing demand lies primarily on Colorado's urban Front Range corridor, which has limited opportunities for increased water supplies. In the past, a common solution was to import water from either the Western Slope or the Arkansas Valley.

From the viewpoint of water users on the Front Range, transbasin diversion projects and transfers have been a tremendous success. However, from the Western Slope viewpoint, transbasin diversions are impacting the water supplies for its future growth and a continued recreation-based economy. Development of transbasin diversions and structures has created costly political and legal battles. Significant mistrust exists for future proposals for transbasin diversions in many areas of the Western Slope. There are also decreed conditional water rights, which are not fully developed. The image, which comes to mind, is a scene from All Quiet on the Western Front, which showed trench warfare in World War I. Each side of the Continental Divide is often firmly entrenched in their views and proposals for new transbasin diversions often lead to more long and costly legal struggles.

Russell George, Executive Director of the Colorado Department of Natural Resources (DNR), developed an idea to address this continuous source of tension in Colorado. Mr. George proposed the development of an interbasin water compact to allocate the remaining water supplies in the seven river basins. The goal would be to draft compacts for each basin to direct how the water would be divided and delivered in the future. The primary allocation in a new compact could be between the Front Range and the Western Slope basins.

George likened his idea to the 1922 Colorado River Compact. The 1922 Compact allocated the flows of the Colorado River between the upper and lower basin states. He encouraged water users to learn from the lessons of the 1922 Compact and apply them to an interbasin water compact to provide certainty for each of Colorado's basins. The water users of each basin must work towards an acceptable agreement.

Rep. Josh Perry from Grand Junction introduced HB-1177 in the State House of Representatives on January 19, 2005. Dubbed "the Interbasin Water Compact Bill," it calls for the creation of a 27-member intrastate compact negotiating committee. The bill also divides Colorado into eight different river basins along with one metro basin for the Front Range urban area. Each of the nine basins would create its own roundtable to vote on its two basin representatives to the statewide negotiating committee. At least one of the two basin representatives would be required to own shares in a ditch or reservoir company or own otherwise adjudicated water

rights.

One task of the basin roundtables would be to develop a basin-wide consumptive and non-consumptive water supplies needs assessment, and provide both structural and non-structural methods to meet the identified needs. The state recently completed a study to identify future demands and water supplies for the major river basins in Colorado called the Statewide Water Supply Initiative (SWSI). The information from SWSI could be a source of information to the basin roundtables.

Of the remaining nine members of the statewide negotiating committee, the governor would select seven. The chairperson from the Senate Agriculture and House Agriculture each select one member of the committee's final two members.

The initial goal of the negotiating committee would be to create a charter, which would define and govern the process to develop and approve compacts within each basin and between basins. The interbasin compact process would not replace the state Water Court system, which adjudicates water rights. If passed, the tentative timeline for completion and presentation of the initial charter to the Colorado General Assembly is July 1, 2006.

The Interbasin Water Compact committee represents an opportunity to address Colorado's water supply issues through collaboration and negotiation. Many divisive issues such as allocation of existing supplies, mitigation, and compensatory storage will be discussed and hopefully resolved. HB-1177 passed the House on March 30, 2005 and was introduced into the State Senate on April 1, 2005.

Richard Raines is a Senior Water Resource Specialist for the water resource consulting firm of Applegate Group, Inc. He has thirteen years of water resources experience in the public and private sectors. His technical focus is water rights and water planning with a detailed understanding of Colorado water law and significant experience and expertise with plans of augmentation and municipal water rights. He monitors the new water legislation in Colorado to better serve the clients he represents and stay abreast of changes in water administration.

You may contact Richard Raines at 303-452-6611 or richardraines@applegategroup.com.

Newly Certified Professionals

Name	Certificate No.
Michael Alfieri Rochester, NY	05-HG-1629
Hassan Kasraie Ventura, CA	05-H-1630
Janice Lantrip Clearwater, Florida	05-H-1626
Ronald Zelt Lincoln, Nebraska	05-H-1621
Prasad Rewanwar Brookfield, Wisconsin	05-H-1628

Congratulations and Best Wishes!



In Memoriam of Professor Nakao

We are deeply saddened by the death of Dr. Kinshiro Nakao, Professor of Hydrology at Hokkaido University on December 3, 2004 from an aneurysm. Professor Nakao was an internationally renowned hydrologist with a wide range of interest in ground water, lake and fluvial hydrology, sedimentological processes, paleoclimatology and others areas. A Professor of Hydrology at Hokkaido University until his retirement in 1996 he carried on research in many parts of the globe, including Alaska, Antarctica, China, Russia, Europe, Africa and other places. He was always encouraging international cooperation and understanding among educators and scientists; and, as a well renowned educator, encouraging students to take a challenge and new ideas in many fields of hydrologic sciences. One of the co-authors of this memoriam Professor Eiji Tokunaga was his first student, who made a fundamental discovery of self-similarity of river networks.

Professor Nakao was one who used his scientific curiosity, nature and intuition combined with the needs of society in ways only a scholar could do, and that made him especially effective in the international arena. Professor Nakao understood that hydrologic knowledge must be quantitative, not just descriptive. Thus, his interest in the quantitative approaches in many fields of hydrologic science, the approach his former students continue.

He was one of the first members of AIH, and was the first President of the AIH Section in Japan. He felt very strongly that the standards and recognition of the hydrology profession are critical for the solution of many hydrologic problems throughout the world. He attended and presented papers at many AIH meetings in USA, Russia

and Uzbekistan. He was very active in professional organizations in Japan; and was a President of the Japanese Association of Hydrological Sciences, member of the Liaison Committee for Geophysics, Science Council of Japan, councilor of the Japanese Society of Limnology. The Japanese Government on December 3, 2004 posthumously conferred the "Order of the Sacred Treasure".

Professor Nakao was truly a Renaissance man. He was interested in international relations, economics, art, literature, and above all in peace and stability in the world. After retirement he traveled extensively to Europe and China to continue his scientific curiosity. He was planning to write a book of poetry.

An entire hydrologic community lost a good friend, colleague and compassionate human being. He was a leader and a model of wisdom, intelligence and integrity.

~ Roman Kanivetsky and Eiji Tokunaga

Recertification Program Revised and Streamlined!

You Expressed Your Concerns.... We listened!

In 2004, AIH inaugurated our new recertification program and the members of the 1984, 1989, 1994 and 1999 classes were asked to complete the new workbook for the year 2004. The first year was a "shake-out" year. We expected to make modifications to the program based on member comments after the first year and subsequent years. The member comments ranged widely and it is apparent that some changes were necessary.

The Executive Committee met in April 2005 to discuss the recertification program and to consider ways to improve its acceptance. A plan was accepted to streamline the process.

Beginning June 1, 2005, members subject to recertification will simply complete a one-page questionnaire, sign the form and mail or electronically submit the form, along with the fee, to the Institute. This form can be downloaded from our web site (www.aihydro.org) and is designed to accumulate your continuing education and professional development activities over the 5-year recertification period. The activities must total the 60 Professional Development credits (PDC) over the five years, or about 12 PDC's per year. No documentation or evidence of participation is needed when you submit this form; however, it should be retained in your files. AIH will randomly audit a small number of members each year to validate the program and monitor compliance.

This modification should address most of the comments concerning the 2004 recertification process. The honor-based system gives members wide flexibility to use activities that may be unique or specific to the individual.

Please send your comments, as we continue to improve the process without sacrificing the integrity of the program.

2004 Recertified Members

Name	Certificate No.	Name	Certificate No.
Aldrich, James W.	84-H-284	Kane, Douglas L.	84-H-426
Aller, Linda	89-HG-846	Karpack, Lawrence	99-H-1503
Aral, Mustafa M.	87-HGW-649	Klimas, A. Algirdas	94-HG-1074
Athman, Constance	89-H-823	Laenen, Antonius	84-H-428
Aulenbach, Donald B.	84-H-294	LaFleur, Robert G.	84-HG-437
Bakke, Paul D.	99-H-1517	Laymon, Leland L.	84-HG-430
Balleau, Peter	84-HG-238	Lea, Jon	89-H-832
Ballestero, Thomas P.	84-H-466	Leap, Darrell	84-HG-395
Beasley, R. Scott	84-H-390	Lee, Deborah H.	94-H-1046
Bedient, Philip B.	84-H-241	Lin, Steve S.	84-H-505
Bedinger, M.S. Doug	84-HG-518	Locke, Daniel B.	99-HG-1501
Beschta, Robert	84-H-317	Marston, Richard A.	84-H-488
Beyerlein, Douglas C.	84-H-433	McKenzie, Stuart W.	94-HWQ-1071
Bobba, A. Ghosh	84-HG-379	McNamara, Michael	99-H-1513
Boone, Richard L.	89-HG-859	McNeish, Jerry	94-HG-1073
Bravo, Rolando	94-H-1044	Megahhan, Walter	84-H-334
Brennan, Gregory J.	99-HG-1511	Memon, Bashir A.	84-HG-415
Brown, David P.	84-HG-242	Mercer, James W.	90-HG-886
Buchak, Edward M.	84-H-474	Miller, Glen A.	84-HG-514
Buono, Anthony	85-HG-527	Mohammad, Ejaz	99-H-1521
Caffey, James E.	84-H-216	Moody, Helen F.	83-H-268
Campbell, Michael D.	84-HG-480	Moreno, Joanna	94-HGW-1082
Carr, Jerome	84-H-481	Morgan, Charles O.	85-HG-569
Cary, Lawrence E.	84-H-513	Nix, Stephan J.	99-H-1507
Cecilio, Catalino B.	84-H-487	Noel, Douglas C.	89-H-858
Chang, Mingteh	84-H-227	Nutter, Wade L.	84-H-394
Cochran, Gilbert	84-H-337	Nuzman, Carl E.	84-HG-385
Collins, Michael A.	84-H-300	Oki, Abudu R. "Richard"	94-HG-1047
Coons, Lawrence M.	89-HG-792	Padilla, Ingrid Y.	99-HGW-1515
Cooper, Peter	94-H-1045	Parrott, Harry	84-H-496
Dabrowski, Tadeusz L.	84-HG-219	Peffer, Jeffrey R.	84-HG-369
Daniel III, Charles C.	84-HG-508	Potter, Kenneth W.	94-H-1050
DeBoer, Darrell w.	84-H-457	Prugh, Byron	85-H-561
Delk, Robert	99-H-1512	Rashedi, Novin	94-H-1052
Dreher, Alan	84-HG-403	Rector, John R.	84-H-376
Dunne, Thomas	84-H-503	Rosgen, David	84-H-372
Edinger, John E.	84-H-253	Ruff, James D.	89-H-830
Felbinger, John K.	89-HG-847	Rumbaugh, James D.	94-HG-1057
Fifield, Jerald	84-H-364	Schiffman, Arnold	84-HG-347
Garcia-Martinez, Luis	84-H-509	Shafer, John M.	84-H-218
Garn, Herbert S.	84-H-320	Shangraw, Janet N.	89-H-806
Gebhardt, Karl	84-H-252	Sheridan, John	84-H-456
Gleason, Patrick	84-HG-348	Shomaker, John W.	84-HG-315
Glysson, G. Douglas	89-H-850	Singh, Vijay P.	84-H-336
Gregor, Vojtech A.	84-HG-435	Skaggs, Richard	84-H-356
Growitz, Douglas J.	84-HG-476	Smith, P. Dennis	89-H-821
Guillaud, Christian	84-H-436	Song-James, Zhida	94-H-1080
Guy, Brian T.	89-H-805	St. John, Ronald	99-HG-1523
Haas, Joseph E.	99-HG-1518	Steinblums, Ivar	89-H-825
Hamilton, Wayne A.	89-HG-807	Stephens, Daniel B.	84-HG-406
Harley, Brendan M.	84-H-303	Sterbentz, Rebecca	84-HG-418
Hedges, Robert	89-HG-854	Stoner, Jeffrey	84-HG-499
Higley, Shawn	99-H-1505	Straw, William T.	90-HG-903
Hoffer, Ronald	84-HG-352	Tootle, Glenn	95-H-1115
Holtschlag, David J.	84-H-211	Walters, Michael	89-H-809
Hordon, Robert M.	84-H-349	Will, Raymond K.	99-H-1504
Hromadka, Theodore	88-H/HGW-716	Williams, Dennis E.	84-HGW-355
Huggins, Camillus B.	94-HG-1079	Williams, Owen R.	84-H-452
Israfilov, Rauf G.	94-HG-1069	Wilson, Lee	84-HG-220
Jackson, William	84-H-345	Winter, Gerry	84-HG-206
Jones, Mikeal	89-H-817	Woodward, Donald E.	84-H-453
Juyal, Rajendra V.	89-H-828	Wright, Skip (Art)	94-H-1077
		Zaluski, Marek	94-HG-1053

Meetings, Conferences and Courses

International Conference on Water Economics, Statistics and Finance

July 8-10, 2005
Rethymno Crete, Greece

For more information contact:

Konstantinos Tsagarakis
+30 28310 77433
+33 69457 06431
iwa@econ.socvoc.gr

Seventh International Symposium on Land Subsidence

October 23-28, 2005
Shanghai, P.R. China

For more information contact:

sisols2005@sigs.com.cn OR gonsiliang@sigs.com.cn
website: <http://www.sisols2005.com>

International Symposium on Hydrology and Management of Forested Wetlands

April 8-20, 2006
New Bern, North Carolina, USA

For more information contact:

Sharon McKnight at McKnight@ASAE.org

AIH 25th Anniversary Meeting & International Conference "Challenges in Coastal Hydrology & Water Quality"

May 21-24, 2006
Baton Rouge, Louisiana

An international forum for information exchange and discussion on all aspects of hydrology, hydrometeorology, hydraulics and water quality issues pertinent to coastal processes and environment.

Call for Papers: To participate in this special occasion and present a paper or poster, please submit a 250-word Abstract of your paper to AIH Headquarters by July 15, 2005. Speakers will be notified of their acceptance by August 15, 2005.

For additional information contact:

American Institute of Hydrology
300 Village Green Circle, Suite 201
Smyrna, Georgia 30080
PH: 77-384-1634
FX: 770-438-6172
EMAIL: AIHydro@aol.com
WEBSITE: www.aihydro.org

We Have a New Member Benefit

The American Institute of Hydrology has negotiated a new benefit for our membership. Effective immediately, all AIH members and their immediate families are eligible to apply for membership with **Lockheed Georgia Employees' Federal Credit Union** and receive all of the financial services offered by a Federal Credit Union. Below is an announcement of our affiliation with LGE Federal Credit Union and the list of new benefits for our membership.

To join simply visit their web site at www.lgefcu.org or call **1-800-541-8921** to obtain an application for membership.

Shared Service Centers are located conveniently throughout the nation.



Experience The Power of Membership!

Through your affiliation with the American Institute of Hydrology, you and your immediate family members are eligible to apply for membership with Lockheed Georgia Employees' Federal Credit Union. Membership benefits include:

- Savings Programs, including Membership Savings Accounts, Money Market Accounts, Share Certificates, and Individual Retirement Accounts (IRAs)
- Dividend Checking with complimentary Home Banking & Memberline access
- FREE Web Bill Pay when you also enjoy FREE eStatements
- Great Rates on New & Pre-Owned Vehicle Loans
- On-the-spot auto financing through Dealer Direct
- Four Distinct Visa® Credit Card options
- Personal Loans and Equity Lines of Credit
- Competitive First and Second Mortgage Programs
- Insurance Services through LHW Insurance.
- Investment Services through MEMBERS Financial Services
- Security—your funds are insured by NCUA up to \$100,000
- Convenient Account Services, including Direct Deposit and Payroll Deduction

Join today! Simply visit LGEFCU's website at www.lgefcu.org, call 1-800-541-8921, or visit any of our convenient branch locations.

LGE
Federal Credit Union



NCUA
National Credit Union Administration



Equal Housing
LENDER
With Member's Approval
Equal Housing Lending
Equal Housing Lending

*Must qualify under normal underwriting guide lines. Certain fees and restrictions may apply.

Job Postings

AIH will post job opportunities for hydrologists nationwide on our website. For more information and ad rates please contact AIH Headquarters at Aihydro@aol.com or call 770-384-1634.

Candidates looking for positions should check our website for new opportunities.

www.aihydro.org

OUTREACH NOTICE PLUMAS NATIONAL FOREST Quincy, California

The Plumas National Forest, Supervisor's Office, has the following vacancies currently open. These positions are permanent, full-time employment. Positions are being advertised interdisciplinary in professional series:

- Supervisory Biologist (0401) 1 position
- Supervisory Hydrologist (1315)
- Ecosystems Staff Officer, Interdisciplinary

If you have any further questions about these positions or the application process, please call one of the following Mt. Hough Ranger District personnel:

- Jim Pena, Forest Supervisor 530-283-7810 jpena@fs.fed.us
- Rob MacWhorter, Deputy Forest Supervisor 530-283-7810 rmacwhorter@fs.fed.us

EDITOR

**Journal of the American Water Resources Association (JAWRA)
Request For Proposal
Submission Deadline: July 30, 2005**

The American Water Resources Association (AWRA) is requesting proposals for a new Editor for its flagship publication - the Journal of the American Water Resources Association (JAWRA). JAWRA is a multidisciplinary journal focusing on applied aspects of water resources science and management. Common topics for JAWRA articles include: surface water hydrology, watershed processes and management, water quality modeling and monitoring, fluvial processes, economics and policy, aquatic ecology, subsurface hydrology, atmospheric science and hydrometeorology, geospatial analysis, and riparian ecology and management. In 2004, JAWRA published 117 papers in six issues.

The term of the editor is three years beginning January 1, 2006. Transition responsibilities will begin October 1, 2005. Qualifications for the editor are:

- Substantial expertise in a water resources discipline. Interdisciplinary experience desirable;
- Significant publication record in the water resources arena; and
- Experience as a journal editor or associate editor preferred.

Interested applicants must submit a proposal (4 page maximum) by July 30, 2005. A complete request for proposals is located at www.awra.org. For additional information contact Dr. Jim Wigington at wigington.jim@epa.gov (phone: 541-754-4341).

FOREST WATER RESOURCES / HYDROLOGY Gainesville, Florida

The University of Florida's School of Forest Resources and Conservation (SFRC) is seeking candidates for a Forest Water Resources/Hydrology position. This is a 12-month tenure-accruing position at the Assistant/Associate Professor level. The position will be located on the Gainesville campus and will have a 30/70, teaching/research appointment.

Full position descriptions are available on the SFRC website: <http://sfrc.ufl.edu>.

Applications will only be accepted online: <http://jobs.ufl.edu/> View Job postings, search POSITION ANNOUNCEMENT # 0001-5020). **Application deadline is July 15, 2005.**

For information: Dr. Eric J. Jokela, Search Committee Chair ejokela@ufl.edu or Dr. Tim White, Director SFRC tlwhite@ufl.edu.

The University of Florida is an equal opportunity, equal access, affirmative action employer. Women and minorities are encouraged to apply.

TECHNICAL QUESTION WRITERS AIH Examination Committee

The AIH Examination Committee still has a critical need for more examination questions. We have had some response from our membership, and we are grateful for the help provided, but we still lack questions for all exams. The Water Quality Principles and Practice examination is currently being developed. Each examination is made up of 100 multiple-choice questions and new exams are made up with questions from our data bank when re-examination is required. We need to have more than 300 questions in each of the data banks. Some questions are interchangeable between SW, GW, and WQ examinations.

For information and instructions on preparing questions, please contact Herbert S. Garn, Chair, Committee for Professional Examinations, at: hsgarn@usgs.gov

For information on the tests, please refer to the topical outline for each examination at: www.aihydro.org/examinations.htm.

For a list of question topics still needed and instructions to write acceptable questions, contact us at: aihydro@aol.com



Test Questions Needed

The following topics are still needed for the Hydrology Examinations as of 11/20/04. Note that certain topic questions are transferable in SW and GW exams:

Fundamentals of Hydrology Examination:

Question Topic	Questions Needed	Topic Description
WATER QUANTITY (volume and flow rate)		
A1b	1	Precipitation/snow melt; gages, networks, data sources/accuracy
A1f	1	Recording and record keeping
WATER QUALITY		
A2a	2	Water quality sampling protocols
A2b	2	Water-Quality Parameters
PHYSICS OF WATER FLOW		
B1a	3	Surface water --Uniform flow; Manning Equation--Channel routing; reservoir routing
WATERSHEDS AND AQUIFERS		
B2a	2	Watershed concepts [hydrologic cycle, etc.]
B2e	2	Hydrograph modeling
B2f	5	Geologic basics in watershed characterization [earth materials cycling, rocks/minerals, soils, porosity, landforms, evaporation / evapotranspiration] fluvial geomorphology
WATER CHEMISTRY		
HUMAN IMPACTS ON WATER QUALITY AND FLOW		
C2c	1	Common organic pollutants
C2d	1	Point, non-point, and atmospheric sources
C2f	3	Sediment- erosion (including land use effects), transport, sediment yield and settling
C2h	2	Quantifying loads
C2i	1	Water quality standards
C2j	2	impacts on flow (infiltration, recharge, runoff)
WATER QUALITY IMPACTS ON HUMAN HEALTH		
C3a	2	Chemical toxicity, chronic and acute
BIOLOGICAL CONCEPTS		
C4b	1	Biodegradation; half life calculation
C4c	1	Bioconcentration and biomagnification
C4e	1	Limiting nutrient
C4f	1	Global, regional, and local chemical cycles and balances, especially carbon and nitrogen
STATISTICAL ANALYSES		
D4	1	Normalization
D5	1	Detection limits
Total	36	

Surface-Water Practice Examination:

Question Topic	Questions Needed	Topic Description
SA1	4	Monitor surface-water quality
SA2	4	Assess surface-water quality conditions /impacts
SA3	3	Inventory water contaminant sources
SA4	0	Inventory conditions affecting quantity, quality and timing
SA5	2	Measure water quality in the field
SA6	3	Inventory channel and flood plain conditions
SA7	0	Design / install / maintain monitoring networks
SA8	0	Select sampling protocols for collecting
SA9	2	Measure flow
SB1	0	Estimate frequency of hydrologic events
SB2	4	Estimate pollutant loads for surface water
SB3	0	Estimate water budget
SB4	2	Conduct flood routing studies
SB5	0	Conduct analyses for statistical significance
SB6	3	Predict contaminant fate and transport
SB7	1	Model watershed hydrology
SB8	3	Model urban watersheds
SB9	3	Model dynamic streamflow
SB10	1	Model detention basins
SB16	2	Delineate regulatory flood plains
SC1	3	Design water control structures
SC2	2	Design watershed management plans
SC3	0	Design runoff control measures
SC4	3	Design slope stabilization measures
SC5	0	Design detention/retention ponds
SC6	1	Design urban storm water management plans
SC7	2	Design for stream bank/lakeshore protection
SC8	1	Design channels
SC9	2	Design erosion control plans
SC10	0	Design stream restoration
Total	51	

Groundwater Practice Examination:

Question Topic	Questions Needed	Topic Description
GA1	0	Monitor groundwater quality
GA2	2	Monitor surface water quality
GB5	2	Conduct analyses for statistical significance
GB8	2	Model regional groundwater quality
GB11	3	Estimate pollutant loads for groundwater
GC1	3	Design subsurface remediation systems (product/contaminant recovery, soil vapor extraction, air sparging, etc.)
GC2	5	Design water supply wells
GC3	3	Design wellhead protection plans
Total	20	

Please send your comments, as we continue to improve the process without sacrificing the integrity of the program.



AMERICAN INSTITUTE OF HYDROLOGY MEMBER FEEDBACK QUESTIONNAIRE

AIH FORM022 Rev. 05/13/05

PLEASE PROVIDE US WITH SOME FEEDBACK ON ISSUES RAISED IN THIS BULLETIN:

Do you want to receive your Bulletin on the web site?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Make sure we have your current email address
Do you want to have your Bulletin mailed to you?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Will you submit an abstract for the 25 th year celebration in Baton Rouge on May 21-24, 2006?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Can you offer a name for the new Water Quality Award	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Name: Also, provide a one page supporting letter for your candidate.
Can you offer a nomination for the C.V Theis Award?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Name:
Can you offer a nomination for the R. K. Linsley Award?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Name:
Do you endorse the revisions to the recertification program?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Will membership in the LGE Federal Credit Union be a benefit to you?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Will you offer to write questions for the Examination Committee test questions bank?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
What additional information would you like to get through the Bulletin?			
News from Committees?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
News from Student Chapters?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
News of State Chapters?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
News relating to your discipline, i.e. Surface water, Ground water or Water quality?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
News of regional issues?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
News from researchers?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
News of Government regulations?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Profiles of new members?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Profiles of your officers?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Training opportunities?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Job Opportunities?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
Are you willing to volunteer time to work on AIH activities?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Please give us your name and we will contact you.

PROVIDE INFORMATION TO CONTACT YOU (OPTIONAL):

Name:
Address:
City, State and Zip Code:
Day Phone:
Fax:
Email:
Comments:

FAX, MAIL OR EMAIL THIS BACK TO US TODAY!

American Institute of Hydrology
300 Village Green Circle, Suite 201
Smyrna, GA 30080
Tel. (770) 384-1634, Fax (770) 438-6172
Email: AIHydro@aol.com Website: www.aihydro.org

US POSTAGE PAID
SMYRNA GA
PERMIT NO. 493



Remember the Alamo

Did you know that AIH receives a commission for all member rental of vehicles through Alamo Rent a Car? A 24-hour reservation is required and can be made by calling **1-800-354-2322** and request your membership ID No. as **690339** with the rate code **BY**.

Changes to the Bulletin

Technology advancements and the benefits of the Internet have caused the Executive Committee to consider the elimination of mailing the quarterly Bulletin and offering it exclusively on our website at www.aihydro.org. Effective with this issue, the Bulletin will no longer be mailed to you, but rather you will have access to it on the web site. You will be notified of its availability by email. Please make sure you maintain a current email address with us. We realize that some members may not want to get their Bulletin, news over the Internet and want it mailed, as usual. We will print a small number of Bulletins and mail them to any member that requests it to be mailed.

To request a mailed copy,

Call 770-384-1634 or 1-800-970-4AIH, fax 770-438-6172, email aihydro@aol.com, or write to us at AIH, 300 Village Green Circle, Suite 201, Smyrna, GA 30080.

We know the Bulletin is an important link between leadership and membership, so...

We need to hear from you.

SPREAD THE WORD...

\$75 Application Fee Waived!

The Executive Committee of the American Institute of Hydrology has been evaluating ways to improve recruiting new candidates. One option was accepted for testing..

Beginning on March 1, 2005 and lasting until **May 31, 2005**, all candidates that apply for membership during that time will have their Application Fee of \$75 waived. Any one who meets the requirements of the membership class to which the applicant is applying, may waive the Application Fee.

The American Institute of Hydrology was formed in 1981 as a non profit scientific and educational organizing. AIH is the only nationwide organization to offer certification to professionals in all fields of Hydrology.

For more information, contact:

The American Institute of Hydrology

300 Village Green Circle, Suite 201

Smyrna, GA 30080

(770) 384-1634

(770) 438-6172 fax

AIHydro@aol.com

www.AIHydro.org