
BULLETIN

Fall-Winter 2003

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

Volume 21, Issue 3-4

American Institute of Hydrology 2004 Annual Conference



Integrated Water Resources Management



Conference Intent

To convene scientists, government officials, business personnel, and students of hydrology to share scientific and technical information on activities and developments within all disciplines of hydrology throughout the United States as well as other countries. Technical presentations and poster sessions will be used to document and transfer information throughout the conference. The program will also include keynote speakers, plenary sessions, short courses, field trips and AIH Annual Business Meeting. Three major awards will be presented: the Ray K. Linsley Award, the C.V. Theis Award and the AIH Founders Award. Awards also will be given to students participating in the conference who have been judged for best poster and oral presentation.

Technical Program

The technical program for the 2004 Conference will cover all disciplines of hydrology with emphasis on the combined application of these disciplines to address

complex water resources management issues. Integrated hydrology themes that should be considered by potential speakers include:

- Multidisciplinary hydrologic approaches to watershed management
- Hydrologic approaches to the development of Total Maximum Daily Loads
- Successful use of hydrologic models for managing storm water in growing urban areas
- Surface-water/ground-water relationships during storm events
- Use of Geospatial data in hydrology
- Water quality in urban watersheds
- Challenges in maintaining dissolved oxygen levels in tail race reaches below dams
- Multidisciplinary hydrologic approach to managing Corps of Engineer lakes for recreation and electrical generation
- Conjunctive surface-water / ground-water management

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The AIH Bulletin is the official publication of the American Institute of Hydrology, 2499 Rice St., Ste. 135, St. Paul, MN 55113, Tel. (651) 484-8169, Fax (651) 484-8357, 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	\$525	9½ x 7½"
1/2 page (1 column)	\$275	9½ x 3½"
1/2 page (1 banner)	\$275	4½ x 7½"
1/4 page (1/2 column)	\$135	4½ x 3½"
1/8 page (1/4 column)	\$ 85	2¼ x 3½"
Business Cards, \$225 members, \$325 non-members annual (4 issues)		

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PRESIDENT'S MESSAGE

Helen Klose, Atlanta meeting and a more global view on water resources issues

Welcome 2004 and I hope all of our members had a happy and joyous holiday season. I hate to start out my message on a negative tone but I must report that Helen Klose, our extremely dedicated office manger since AIH's inception was stricken ill in November and passed away on January 27, 2004. Helen was not able to attend our annual meeting in Atlanta because of doctor's orders and was missed by many of our members in attendance. I am sure I speak for the entire AIH family when I say that we are extremely saddened by Helen's untimely passing and we extend our deepest condolences to Helen's family.

During this difficult period, Jerry Seaburn graciously stepped forward to help with the operation of AIH. We are successfully dealing with priority issues such as dues statement, newsletters, taxes, bills, the Las Vegas meeting preparations and a long list of other items. I know we have heard from several members during this period and I believe that with Jerry at the helm we have been able to respond to your inquiries. The phone and email have been transferred to Jerry so please use the normal means to contact AIH with issues. I would ask you to bear with AIH during this period.

I attended the Atlanta meeting in November and I was most impressed with the theme and the quality of the presentations. In my opinion this was amongst the most successful of the AIH meetings I have attended relative to the scientific content. The organizers are to be congratulated it reflects the hard work of many. Unfortunately, attendance at the meeting was less than usual so our members did not have the benefit of the fine presentations of their colleagues. As I have stated previously in this column, I feel strongly that the role of the hydrologist is becoming more important to society and as responsible practitioners; we must continue to learn and be at the forefront of current state of the science and engineering. A key way of ensuring this is attendance and sharing experiences at the professional society meetings, short courses, field trips, and certification. The AIH offers all these opportunities and our annual meeting is central to accomplishing these professional development goals. I would encourage each member including our students, HIT's, and emeritus to consider seriously attending and participating in the Las Vegas meeting. I believe it promises to be an outstanding event.

One of my other responsibilities is to serve on the American Association for the Advancement of Science's (AAAS) Committee on Atmospheric and Hydrospheric Sciences. AAAS publishes Science magazine and recent issues have highlighted a series of articles on the "State of the Planet" that have focused on viewpoints relative to topics such as global population growth, air quality and pollution, fisheries, global climate change, energy, biodiversity, food, soil, and of course

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Helen Klose 1938-2004

It is with saddened hearts that we must report that Helen Klose died January 27, 2004, due to complications from a brain aneurysm. The American Institute of Hydrology was founded in Minnesota in 1981 by Messrs. Csallany, Zaporozec and Kanivetsky to certify hydrologists working in the profession. As their first step in getting organized, they had the vision - or remarkably good fortune - to hire Helen Klose, who worked single-handedly for over 23 years, running the organization as Office Manager.

Through her dedicated service, she saw AIH grow from a few hundred members to over 1,200 today. She knew every one of the members by first name and was always looking to find ways to attract new members. Helen was the driving force behind virtually everything that AIH has accomplished over the years. She handled all financial matters, organized the annual meeting, including several complex international meetings in the former Soviet Union, kept all new applicants moving through the review process, published the quarterly newsletter and annual Journal and dealt with a daily stream of questions from the membership with grace and professionalism. AIH's highly respected reputation was the reflection of Helen Klose's dedicated service, congenial personality and professionalism.

She is survived by her daughter, Belinda, her son, Bill, and three grandsons. The more than 1,200 members of the AIH family grieve the loss of Helen Klose. She will be missed by all of us.

Cards and letters can be sent to: Belinda Klose
238 14th Street, South
St. Paul, Minnesota 55075
(651) 552-4040.

Cathryn Seaburn has stepped in to keep AIH's administrative functions running smoothly. The organization is operating at full capacity and all functions are being handled. Continue to contact AIH headquarters with your questions and requests for help. Please be patient with us while we work through these operational duties of the Institute.

List of Newly Certified Professionals for 2003

Name	Certificate No.	Name	Certificate No.
M. Gale Johnson	1577-HGW	Shabbir Ahmed	1588-H
M. Levent Kavvas	1676-H	Thomas H. R. Jackson	1587-H
Steven M. Bryant	1578-H	Christopher H. Roach	1589-H
Vincente Quinones-Apunte	1580-H	Denton G. Peters	1592-H
Arthur Armor	1581-H	Marzi Sharfaei	1593-HGW
Senarath T. B. Ekanayake	1579-H	Getachew Belaineh	1594-H
Michael J. Shultz	1584-H	Art Correa	1597-H
A. Rudder Turner, Jr.	1582-HWQ	Jeremy R. Freimund	1595-H
Xiaohong Huang	1583-H	Georgia A. Krallis	1596-H
Emitt C. Witt, III	1586-HWQ	Paul J. Whalen	1591-H
Shabbir Ahmed	1585-HGW	Richard T. Raines	1590-H
Louis P. Bull	1598-HGW	Jennifer Wulforst	1599-H

Abstracts

Potential speakers are requested to submit an abstract of not more than 250 words. 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. Abstracts must be sent by email to: **AIHydro@aol.com** no later than **May 31, 2004**. There will be a limited number of speaking slots for 2004 Conference, so you are encouraged to submit your abstract as early as possible. Abstracts will be published in a conference proceedings.

Papers presented at our conference of a technical nature, relating to either the science or management of hydrology will be published in our proceedings. Authors of papers are encouraged to submit manuscripts electronically either by email attachment or on a CD. *Microsoft Word* format is preferred, but documents can also be sent in *Word Perfect* format or as an *ASCII text* document. Manuscripts will also be accepted as hard copy. If submitting a manuscript as hard copy, send four (4) copies (typed double-spaced) to the address below:

**American Institute of Hydrology
2499 Rice Street, Suite 135
St. Paul, MN 5113-3724**

A 20-page, double-spaced manuscript, including figures and tables, will be approximately 8 published pages. It is recommended that papers be no longer than approximately 10 pages. Posters can also be published in our proceedings if they can be submitted as an electronic document or as hard copy in manuscript format. Details for manuscript preparation can be found on the AIH web page at:

<http://www.aihydro.org/instructions.htm>

Exhibits

Exhibit booths and tabletop displays 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. These professionals come from industry, academia, consulting firms, government agencies, and commercial industries. The attendees have interests in many different products and services such as computer software, information services, technical instruments, scientific publications, and technical supplies. The

attendees traditionally have come from all areas of the United States and other countries. For information on displaying your product or service at this conference, please contact the AIH office directly at **651-484-8169** or send an email to **AIHydro@aol.com**.

Short Courses

The organizing committee is soliciting proposals from individuals or organizations who wish to put on short courses that are related to the theme of the conference. Those courses can be from 4 to 8 hours in length and will take place either on Sunday, October 17 or Thursday, October 21. Anyone interested in presenting a short course should send a proposal to **AIHydro@aol.com** by **May 31, 2004**, with a general description of the contents of the course, length, cost (i.e. what would the presenter charge per student), minimum and maximum number of students, preferred day to hold the class, and contact's name, email and phone number.

Conference Venue

The conference will be held at **Alexis Park Hotel** located at 375 East Harmon, Las Vegas, Nevada 89109. A block of rooms has been reserved at a conference rate of \$79 per night. Reservations must be made no later than **July 10, 2004** by calling **1-800-582-2228**. Please indicate that you are participating in the AIH Annual Conference. Information on the Alexis Park Hotel may be obtained at:

<http://www.alexispark.com>

Who Should Attend

This conference is recommended for:

- Scientists and engineers in all fields of hydrologic sciences
- Government officials with environmental responsibilities
- Land-use planners
- Students of hydrology
- Hydrologists wishing to become registered
- All other persons dealing with water-related issues

NEW REQUIREMENTS FOR AIH PROFESSIONAL CERTIFICATE RENEWAL

AIH certification must be renewed every five years.

Beginning in 2004, the AIH Board of Registration will require membership to provide information and proof of professional competency by identifying professional development credits (PDC;s) before re-issuing a hydrology certificate. Sending in just an updated resume and/or some weak professional documentation will no longer be accepted.

Continuing professional competency is a normal requirement for renewal of AIH certification. Our bylaws, Article II, Section 6 require that each certified professional hydrologist must meet competency for continued certification. This competency is checked every five years of membership ending on December 31 of the anniversary year. The Board of Registration will use the following activity guidelines outlined in this article for identifying 60 professional development credits (PDC's) over the 5-year period since certification issuance; or the proceeding five years since the last renewal. For the year 2004, they will require only 12 PDC's; in the year 2005, they will require 24 PDC's; and etc.

Exempt from completing the continued professional competency requirement are those who qualify for retired (no longer employed in any business) or inactive (totally separated from the profession of hydrology because of governmental or military obligations) status.

Also exempt from completing the continuing professional competency requirement within the given 5-year time frame, are those in foreign employment for more than 120 days in any of the ensuing years, or those who have had serious illness or injury to themselves or an immediate family member. These individual will be given additional years to complete the requirement commensurate with the years of exemption.

Typical activities that will not qualify are:

- Reports that are repetitive in significance and findings with others already given as activities
- Self study or personal self-improvement courses
- Service club meetings or activities
- Attendance in business meetings of any organization
- Equipment demonstrations or trade shows

- Topics not relevant to hydrology
- Repetitive teaching of the same course without updating the material

Typical activities that qualify are:

- Reports generated by regular employment, not including those that are repetitive in significance and findings. A copy of the report table of contents to be submitted and statement identifying significance and non-repetitive nature -- ***5 credits per report.*
- Completing or attending qualifying courses or workshops, seminars, instruction, in-house programs, or training. A copy of the course description and official training transcript -- ***11 credits per quarter hour, **3 credits per audit hour.* A copy of the workshop/etc. program agenda and registration -- ***2 credits per half day.*
- Teaching universities, colleges, junior colleges, where not normally employed. Copy of the course description and speaker contract -- ***11 credits per quarter hour for the first time, and **6 credits for all subsequent classes.*
- Teaching hydrology courses where substantial time has been spent updating the coursework, or the material is new. Copy of the course upgrade - *- ** 6 credits per quarter hour.*
- Attending technical or professional society meetings when hydrology topics are presented as the principle part of the program. Copy of the program agenda and registration -- ***3 credits per day.*
- Presentation or publication of professional hydrology material. Copy of the program agenda -- ***8 credits per paper presented, **6 credits per poster presented.*
- Publication in refereed journal. Copy of the article -- ***18 credits per article.* Peer review of a journal article or editor of a book or proceedings. Copy of completed review form or other documentation -- ***4 credits per article.* Write a book review. Copy of the review -- ***10 credits per review.*

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freshwater. In the Nov. 28th issue of Science, Peter H. Gleick has published an article entitled Global Freshwater Resources: Soft-Path Solutions for the 21st Century. I highly recommend this article for your consideration because it very articulately defines the problems facing society relative to the projected demand for freshwater during this century. Although Gleick promotes the development of so-called "soft path" policy solutions that would encourage lower cost community-scale water systems, decentralized and open decision-making, water markets and equitable pricing, water conservation technologies, and environmental protection rather than centralized infrastructure, the role of the hydrologist is still central to the solution of the freshwater supply dilemma. One of the areas that must be addressed by the hydrologic community is the development of a very accurate assessment of freshwater availability at multiple spatial scales that includes consideration of water quality in the potential policy landscape presented in the Gleick article. The role of the hydrologist in looking at topics such as desalination, conjunctive use, water conservation, interbasin transfer, TMDL's and ecological considerations will be even more challenging in the future. Many of these topics are and will continue to be the focus of AIH meetings.

In closing, let me say that as I pass the halfway point of my term as President of AIH, I recognize how important the AIH is to the vitality of the practice of professional hydrology in the United States. As an organization, AIH plays a vital role and one that I think will continue to increase with time. This newsletter announces the formation of a nominating committee for a new slate of Executive Officers for AIH in January 2005. I have found the experience of leading AIH to be very fulfilling and I would encourage you to step forward and help lead the AIH in future.

On behalf of the AIH Executive Committee, best regards for a prosperous 2004.

-Pat Leahy, President

- Organize a hydrology conference or session. Provide conference brochure -- ****21 credits per conference. **7 credits per session.**
- Officer or committee person of a professional hydrology society. ****10 credits per year for President/Director. **5 credits per year for other officer or committee chair. **3 credits per year per Local committee.**
- Membership in hydrology-related committees for the purpose of technical advancement, management, or environmental protection. ****10 credits per year per National committee. **5 credits per year per State or Regional committee. **3 credits pr year per Local committee.**

It would be advisable to set aside the appropriate information on an annual basis so you will have it available upon certification renewal time. Please start to collect your information.

A. Laenen

We are looking for Lost Members

AIH has lost track of several members and need your help to locate them. They may have graduated, retired, married, changed jobs, or moved and just did not think to let us know. We want to "hook-up" again. If you know the whereabouts of any of the members listed below, please email us at AIHydro@aol.com with an address, telephone number or email address of our missing colleague. Thanks for your help.

Stergios A. Dendrou	Brendon Mears
Ellen Knight-O'Brien	Amy Santiago
Lynn Shrock	Lee Azimi-Zonooz
Lawrence A. Neal	Dave Thronberg
Scott Fleming	Robin W. Davis
Aaron S. Zonin	John R. Mackey
Richard J.Heggen	Warren Lee Niemi
John F. Bacon	Justin T. Iverson

Contact AIH at AIHydro@aol.com



U. S. Environmental Protection Agency (EPA) Office of Research and Development (ORD)

EPA's Office of Research and Development (ORD) is establishing new Scientific/Technical (ST) Professional National Program Director (NPD) positions. Highly qualified scientific leaders currently engaged in managing or conducting cutting-edge research in the physical, biological, medical or engineering sciences are sought to lead a cross-cutting ORD research program.

Each NPD is responsible for providing high-level scientific leadership and overall coordination of a research program delineated in ORD Multi-Year Plans (MYP, details online at www.epa.gov/osp/myp.htm). Other responsibilities include representing ORD's research efforts inside and outside EPA and recommending changes in program priorities, resource levels and allocations. Each NPD will be responsible for conducting "state of the art" science in support of the research program. The NPD will typically have received honors and awards from major national organizations for his/her accomplishments, and will serve as a recruiting attraction for those seeking to work under his/her inspiration and guidance. Applicants would be expected to possess graduate degrees, significant research experience, and a national or international reputation in their field.

These are four-year term Scientific/Technical (ST) Professional positions with potential for renewal. The NPD may be based in Washington, D.C., Research Triangle Park, North Carolina, or Cincinnati, Ohio. The minimum rate of basic pay for an ST position equals 120 percent of a GS-15 step 1 rate of basic pay. The incumbent will be responsible for one of the following research programs:

- Air (including Particulate Matter)**
- Drinking Water**
- Water Quality**
- Contaminated Sites/RCRA**
- Pesticides and Toxics (including Endocrine Disruptors)**
- Sustainability**
- Human Health**
- Ecological Protection**
- Global Impacts (including Mercury)**

Applicants should submit a Curricula Vitae and a vision statement for each position of interest to Jayne Ramsey at U.S. EPA/ORD (8101R), 1200 Pennsylvania Avenue, N.W., Washington, D.C. 20460. For more information, please go to http://www.epa.gov/ORD/htm/jobs_ord.htm, or you may contact Jayne Ramsey at (202) 564-6736 or ramsey.jayne@epa.gov.

U.S. Citizenship Required
Applications must be received by April 16, 2004
EPA is an Equal Opportunity Employer

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Look for the 2004 Annual Meeting program and International Conference on our website: www.aihydro.org and press the meeting button

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 **93394** with the rate code **BY**.

AIH Member Registry

The 2003 and 2004 issues of the Registry will be published as a combined issue in the spring of 2004. We need to have your current affiliation or company, work address, telephone and fax number, and your current email address.

Position for AIH Web Master Open

We need some new blood to take over the web page duties. Our AIH Internet site has come a long way, but there is much that can be done to make it more current, interesting and worthwhile. Interested parties should contact the current web master, Tony Laenen, at: alaenen@earthlink.net

Nominate a Member for Leadership in AIH for 2005-2006

AIH is now accepting nominations from the membership-at-large to serve as an officer for the 2005-2006 term of office. The offices that must be filled include

- **President-Elect (will assume the office of President in the subsequent term)**
- **Vice President for Academic Affairs**
- **Vice President for Institute Development**
- **Vice President for International Affairs**
- **General Secretary**
- **Treasurer**

If you would like to nominate a member for one of the open offices, please send the name of the individual, along with the suggested office and a brief statement (4-5 lines) indicating why the individual would make a good candidate. Send the information to AIH by email at: AIHydro@aol.com or by mail at **2499 Rice Street, Suite 135, St. Paul, MN 55113**. The Nominations Committee, headed by Dr. David Maidment will evaluate all names submitted. Your nomination must be received at AIH by **March 5, 2004**.
