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Summer 2001 "American Institute of Hydrology, the Society for Registered/Certified Hydrologists and Hydrogeologists" Volume 19, Issue 2

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## **2001 AIH International Conference, 20th Anniversary and Annual Meeting**

### **Hydrologic Science: Challenges for the 21st Century October 14 —17, 2001**

The 2001 International Conference, AIH 20th Anniversary and Annual meeting will be held October 14-17, 2001 at the Thunderbird Hotel and Conference Center in Bloomington, Minnesota.

The AIH Conference is being organized and supported in cooperation with the following organizations:

- \* U.S. Geological Survey
- \* U.S. Army Corps of Engineers
- \* U.S. Environmental Protection Agency
- \* American Ground Water Trust
- \* American Water Resources Association
- \* Minnesota Ground Water Association
- \* American Society of Agricultural Engineers
- \* University of Minnesota
- \* The University of Texas

In celebrating the 20th Anniversary of AIH, a special session, "Challenges in Registration/Certification of Professional Hydrologists," will include high profile speakers such as P. Patrick Leahy, U.S. Geological Survey, L. Douglas James, National Science Foundation, Peter O. Wolf, British Hydrological Society, John E. Moore, Past AIH President as well as the three founders of AIH, Sandor C. Csallany, Roman Kanivetsky and Alexander Zaporozec.

The 2001 International Student Paper Award will be awarded at the AIH Annual Meeting on Wednesday, October 17, 2001. The first place winner will receive a certificate and \$100, and the faculty advisor will receive an acknowledgment.

Technical Sessions will include:

- \* Status of Water Quality and Aquatic Biology
- \* Ground Water Challenges in the 21st Century
- \* Scales Issues in Hydrologic Science
- \* Surface and Subsurface Water Quality
- \* Sustainability of Ground Water
- \* The Minnesota and Mississippi River Basins: Flooding and Runoff Issues
- \* The Minnesota and Mississippi River Basins: Water Quality and Ecology Issues
- \* Role of Hydrologic Sciences in Watershed Management
  - Hydrologic Methods for Watershed Management—Practitioners Viewpoint
  - Watershed Monitoring Systems
  - Watershed Management—Non-Point Pollution
  - Understanding Linkages Between Watershed, Riparian Areas and Stream Channels
  - Hydrologic Methods—Cumulative Watershed Effects
  - Education Needs for Achieving Better Management of Watersheds
  - Panel Discussion—Training Needs for Local Watershed Management Org.
- \* Poster Session

You will find the conference program, including presentation titles, authors, and presentation schedules on the AIH website after July 15, 2001.

**<[www.aihydro.org](http://www.aihydro.org)>**

## Editorial Board

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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	2½ x 3½"
Business Cards,	\$225 members,	\$325
non-members annual	(4 issues)	

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## PRESIDENT'S MESSAGE

I would like to update you on the actions we have taken since I communicated with you at the beginning of the year. The two most important issues that need our immediate attention are augmenting our membership and improving the quality of our journal. Regarding the membership, the Executive Committee, during its teleconference last month, took the position that we must revitalize our state sections, establish student chapters, and forge links with the international professional community and organizations.

Under the leadership of Mr. Joseph J. Dlugosz, Vice President for Institute Development, and Dr. Roman A. Kanivetsky, Vice President for International Affairs, we are in the process of developing a framework that we can use to revitalize our existing state sections and establish sections in the states that do not have them. It is felt that we must work at the grassroots level and the movement for increasing membership must originate in individual states and cities and towns and grow from the ground up. It is the states where the action is and where we have to spread the word about AIH and its value to the profession and the society.

In like manner, we are working on developing a framework for establishing student chapters in universities and colleges in a manner similar to the student chapters of ASCE, ASAE, AWRA, etc. We believe students are our future and therefore we must entice them to join AIH and to pursue our profession. If we can do a good job there, I believe we will reap rich dividends in the years ahead. We must pursue this step with care and perseverance.

Another step that we are taking is forging links with international community. We believe there can be enough interest in AIH in other countries and we must try to establish sections of AIH in these countries. In addition, we are also discussing if we should expand our membership types. Both Mr. Joseph J. DLugosz, and Dr. Roman A. Kanivetsky are leading these efforts.

Regarding the journal, under the leadership of Dr. Michael E. Campana, Vice President for Academic Affairs, a blueprint is being prepared to examine our entire publication strategy. It requires a lot of thinking and discussion. The AIH journal needs upgrading and perhaps refocusing and redirecting. We do seem to have a consensus on the questions but are not clear what the answers are.

Before closing, I would like to reiterate that we need help from you—our membership. Please tell us what you can do for AIH and where you can help us. We would welcome your active involvement in the aforementioned activities. Any input you may want to offer would be most welcome. Please let me or any of the committee members know your views. I can be reached by e-mail at: cesing@lsu.edu or by phone at: (225)-578-6697 or by fax at: (225)-578-8652.

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# Membership Activity

## Applications Received

**Vladimir Smakhtin**, Council for Scientific and Industrial Research, Pretoria, South Africa (1571-H)  
**Richard T. Raines**, Tuttle Applegate, Inc., Denver, CO (1572-H)  
**Jorge A. Tirado**, CMA Architects and Engineers, San Juan, PR (1573-H)  
**Howard M. Goebel**, New York State Canal Corp., Albany, NY (1574-H)  
**Matthew J. Gozdor**, GZA GeoEnvironmental, Inc., Livonia, MI (1575-HGW)  
**Henry Haiming Hu**, WEST Consultants, Inc., San Diego, CA (1576-H)  
**Sharlene M. VanKommer**, Student, Portland State Univ., Portland, OR (1577-HIT)  
**Kazuhiro Sonoda**, Student, Portland State Univ., Portland, OR (1578-HIT)  
**Gary D. Rule**, Student, Humboldt State Univ., Arcata, CA (1579-HIT)  
**Emitt C. Witt, III**, Supervisory Hydrologist, U.S. Geological Survey, Rolla, MO (1580-HWQ)  
**Christopher G. Surfleet**, Hydrologist, Mendocino Redwood Co., Fort Bragg, CA (1581-H)  
**Hillol Guha**, Florida International Univ., Miami, FL (1582-HG)  
**Joseph R. Amann**, Student, Oregon State Univ., Corvallis, OR (1583-HIT)  
**Jeremy S. Appt**, Student, Oregon State Univ., Corvallis, OR (1584-HIT)  
**Christine E. Briese**, Student, Oregon State Univ., Corvallis, OR (1585-HIT)  
**Joshua T. Iverson**, Student, Oregon State Univ., Corvallis, OR (1586-HGWIT)  
**Benjamin Jacob**, Student, Oregon State Univ., Corvallis, OR (1587-HIT)  
**Timothy E. Link**, Student, Oregon State Univ., Corvallis, OR (1588-HIT)  
**Karen L. Nelson**, Student, Oregon State Univ., Corvallis, OR (1589-HIT)  
**Ethan L. Scott**, Student, Oregon State Univ., Corvallis, OR (1590-HIT)  
**Mindy M. Simmons**, Student, Oregon State Univ., Corvallis, OR (1591-HIT)  
**Joshua R. Wyrick**, Student, Oregon State Univ., Corvallis, OR (1592-HIT)

## New Student Members

**Nico Hauwert**, The Univ. of Texas, Austin, TX (318-S) (J. Sharp)  
**Sharlene M. VanKommer**, Portland State Univ., Portland, OR (319-S)(J. Yeakley)  
**Daniel D. Yates**, The Univ. of Texas, Austin, TX (321-S)(D.R. Maidment)  
**Gary M. Mryncza**, Univ. of Birmingham, Birmingham, UK (321-S) (J.R. West)  
**Gary Rule**, Oregon State Univ., Corvallis, OR (322-S) (T. Moser)  
**Timothy E. Link**, Oregon State Univ., Corvallis, OR (323-S) (A. Laenen/G. Ice)  
**Karen L. Nelson**, Oregon State Univ., Corvallis, OR (324-S) (A.

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## New Members

**Henry (Haiming) Hu** (01-H-1551)  
**Lindell E. Ormsbee** (01-H-1552)

## New Member and Member Address Changes

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## COMMUNITY DEVELOPMENT ENGINEER

The City of Greenwood Village, Colorado is home of the Denver Technological Center, a high quality corporate office park located along the southeast I-25 corridor in the Denver metropolitan area. The City respects the natural environment and has been a pioneer in wetland preservation and water quality management. The community reveres its natural settings, mountain views, and wildlife that are part of the Greenwood Village way of life. The community faces planning challenges from continued growth and the need to preserve its current high quality of life. We are currently seeking a Community Development Engineer who will primarily be responsible for reviewing development proposals and their impact on water detention and quality. The primary responsibilities of this position are to review development plans and final plats; to collaborate and confer with developers, engineers, architects, and contractors; to perform field inspections; to represent the City in regional drainage issues; and to administer floodplain ordinances. Educational and experience requirements include equivalent to a bachelor's degree from an accredited college or university with major course work in civil engineering, hydrology, or a related field plus five years of responsible civil engineering experience in the area of development project review or five years of experience in urban hydrology. Requires knowledge of principles and practices of civil engineering; land use planning as it relates to large and small scale development projects; principles of mathematics as applied to engineering work; hydrology related to urban development; and pertinent Federal, state, and local codes, laws, and regulations. Must have ability to develop, review, and modify civil engineering plans, designs, and specifications; interpret and apply pertinent Federal, state, and local laws, codes, and regulations related to civil engineering; perform technical research and solve design problems; and ability to communicate technical material clearly and concisely both orally and in writing. Requires possession of, or ability to obtain, a valid Colorado driver's license with a satisfactory driving record. Excellent communication, problem solving, and interpersonal skills are required, as well as the ability to effectively prioritize and manage multiple projects. The successful candidate will demonstrate an understanding of and commitment to providing high quality customer service. Salary range is \$59,592 to \$77,472 / year plus an excellent benefits package. To apply or for more information, please visit our website at [www.greenwoodvillage.com](http://www.greenwoodvillage.com) or call (303) 773-0252.

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2. GENERAL EQUIP. CATEGORY: Data Logger

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11257 Coloma Rd., Gold River, CA 95670

Phone: 800-876-1172, FAX: 916-638-3270

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Contact: Dan Flores

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# More about the 2001 International Conference, Annual Meeting and 20th Anniversary Workshop, Short Course, Field Trips and Student Paper Competition

## Groundwater Education Workshop: The Needs, the Challenges and Some Solutions

This half-day workshop, presented by **The American Ground Water Trust**, will showcase success stories about groundwater awareness, information and action program. It will be of particular interest to teachers, educators, environmental and groundwater specialists and those involved in water management or regulation. Successful resource protection, and water management for sustainability requires the public's support and cooperation. Schools, citizens, communities and decision makers are often key targets for "ground water education." However, education is a process not an end result and programs need to be crafted to suit specific needs and achieve specific objectives. Find out about national, regional and local groundwater education initiatives. Learn about the educational resources that are available to use in local programs. Make use of the opportunity to talk with experience educators about the agony and ecstasy of trying to change attitudes and behavior and influence public awareness about the importance of groundwater resources.

## Short Course: Standard Guides for the Collection of Hydrogeologic Data and for Environmental Site Characterization

The Leaders, **Dr. John E. Moore** and **A. Ivan Johnson**, have presented this course at the International Association of Hydrologists Congresses in Canada and Australia and is also scheduled for the IAH Munich Congress this fall. The object of this course is to present the standard guides that are used for the collection of hydrogeologic field data. The standard guides were developed to produce uniform and high quality data. The course will focus on field methods to define environmental site characteristics. Emphasis will be given to guides that are used for the collection of samples to describe the physical and chemical character of the site. Standard guides for conceptual models, water level measurements, well drilling, soil sampling, aquifer tests, installation of monitor wells, ground water sample collection, hydrogeologic site investigations and report preparation will be discussed. The attendees will receive a course notebook of the guides presented in the course.

Find the program on the AIH website at <[www.aihydro.org](http://www.aihydro.org)>

## Field Trips: The Minnesota and Mississippi River Field Trips

Participants registered for the Conference may register for the field trips planned for Tuesday and Wednesday afternoons. The afternoon tours will take you to the St. Anthony Falls Laboratory on Nicollet Island in downtown Minneapolis, and the second tour is to the U.S. Army Corps of Engineers' Lock and Dam in Minneapolis including a tour of the surrounding area of Historic Milling District. Leaders include Peter Cooper and Sonia Jacobsen, USDA, Natural Resources Conservation Service in St. Paul, Minnesota.

**Tuesday, October 16 and Tuesday, October 17, 2001**

### Field Trip #1—St. Anthony Falls Laboratory Tour:

1:30 pm Board Buses at the Thunderbird Hotel  
2:00 pm Arrive St. Anthony Falls Laboratory  
4:00 pm Board bus to return to the Hotel

### Field Trip #2—Lock and Dam on the Mississippi River Tour:

1:30 pm Board bus at the Thunderbird Hotel  
2:00 pm Arrive at the Lock and Dam on the Mississippi River  
4:00 pm Board bus to return to the Hotel

## Field Trips: MGWA/AIPG FALL FIELD TRIP

The **Minnesota Ground Water Association** is one of the co-sponsors of the 2001 AIH Conference and have been working with the Minnesota Section of the American Institute of Professional Geologists in planning their fall field trip. They are inviting any of the AIH conference participants to join them to register for the field trip to tour the area around Brainerd, Minnesota.

**Day 1 – Friday, October 12, 2001**

9:00 am Registration at Ramada Inn, Brainerd. Participants traveling from the Twin Cities will be picked up at the Thunderbird Hotel to be in Brainerd by 9:30 am to leave on the tour:

1. Croft Mine, Crosby MN – Iron Mining Geology
2. Cuyuna Range Recreation Area – Iron Mining Geology
3. GMRC, Ltd., Emily, MN – Manganese Deposit Geology
4. Lunch; Thunder Lake Pit, Outing, MN – Glacial Thrust Features
5. Leech Lake Rest Area, Whipholt, MN – Itasca Moraine
6. USGS Hydrology Research Center, Williams Lake\
7. Spider Lake Pit – St. Croix Moraine

Continued on Page 7

Continued from Page 6: Field Trip: MGWA/AIPG Tour

**Day 2 – Saturday, October 13, 2001**

8:00 am Leave Ramada Inn, Brainerd.; 8:15 am Pickup Campers - Crow Wing State Park:

1. Sand Dunes, Baxter, MN – Eolian Deposits
2. Mapleton Road, Baxter, MN – Brainerd Sand Plain
3. Hengel Gravel Pit, Pillager, MN – Deposits in the Pillager Gap
4. Anderson Bros. Pit – View of the Pillager Gap
5. Lunch; Lake Alexander – Valley Train Deposits and Kame Topography
6. Rogers Lake – Frontal Fan of the St. Croix Moraine
7. Eagle Creek, Browerville, MN – Wadena Drumlin Field
8. Mill Lake – Crevasse Fillings in the St. Croix Moraine
9. Ripley Esker – St. Croix Moraine Association

Participants can make reservations to stay at the Ramada Hotel overnight and return to the Thunderbird on Saturday, October 13, 2001. For additional information contact the AIH Office.

## 2001 International Conference Student Paper Award

Students will have the opportunity to enter a paper which will be evaluated on

- \* Science value
- \* Understanding
- \* Organization
- \* Presentation

to be eligible for being awarded a certificate and \$100 for first place. The faculty advisor will also receive acknowledgement and a certificate for first place. The award will be given at the Annual AIH Business Meeting. The presentation may be oral or poster. Contact the AIH office by e-mail <aihydro@aol.com> informing us of the name of your presentation, an abstract of approximately 250 words, if you have not already sent it in, whether it will be a poster or oral presentation along with your full name, address and the name of your advisor.



## International Affairs

American Institute of Hydrology (AIH) is embarking on establishing National sections throughout the World. This initiative is sparked by new world order of globalization of economies and overarching challenge to make transition from unsustainable, inequitable society to one that is sustainable, equitable and stable. The issues of long-term environmental, socioeconomic, and political stability is at stake. In this context the sustainable growth both in developed and developing countries will, in large part, depend on knowledge as organizing principal in environmental management and, in particular, hydrologic issues and water resources.

The hydrologic community and AIH should provide the leadership and build the knowledge partnership in management and protection of water resources and shape the future of hydrologic science and profession.

AIH sent letters to 35 countries and so far received replies with the expression of interest from 19 countries. If we will be successful with this initiative we will be able to make AIH truly global professional organization and fulfil the vision of AIH which are unification of profession, establishing standards globally and reform of educational system.

***We need your help. If you know a well-known professional hydrologist in leadership position who may be nominated to lead the effort to establish national sections in other countries please contact AIH Headquarters or myself at kaniv001@umn.edu or call me at (612) 627-4780 ext.209.***

—R. Kanivetsky

## Nominations Sought for AIH Offices

AIH is beginning the process of selecting candidates for the following AIH offices:

- \* President Elect
- \* Vice President for Academic Affairs
- \* Vice President for Institute Development
- \* Vice President for International Affairs
- \* General Secretary
- \* Treasurer

Members are invited to send to the AIH office via mail, fax or e-mail, AIH 2499 Rice St., Ste. 135, St. Paul, MN 55113, (651) 484-8357, <AIHydro@aol.

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Look for the 2001 Annual Meeting program and International Conference on our website:  
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## 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 I.D. No. as **93394** with the rate Code **BY**.



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The AIH Business Meeting will  
be held during the 2001 Annual  
Meeting and 20th Anniversary  
at the Thunderbird Hotel on  
October 17, 2001

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