BULLETIN

Winter 2001 "American Institute of Hydrology, the Society for Registered/Certified Hydrologists and Hydrogeologists" Volume 19, Issue 4

The 2001 AIH International Conference, 20th Anniversary and Annual Meeting was held in Minnesota October 14-17, 2001

The 20th Anniversary and Annual Meeting of AIH is now history. The venue for the meeting was excellent and the conference program was excellent even though we had many cancellations due to the September Terrorist activity. Attendance numbers were down to 200 participants.

A pre-meeting activity involved a two-day hydrogeology field trip sponsored by the Minnesota Ground Water Association. The field trip started on Friday and took participants near Brainerd in northern Minnesota to view the area geology.

The official AIH meeting kicked off on Sunday with a short course by John Moore and a workshop by Andrew Stone, with the American Ground Water Trust. The short course covered the topic of standard guides for collection of hydrogeologic data for environmental site characterization. The workshop was on ground water education. Both of these activities carried professional development credits.

The regular conference program began on Monday morning with Dr. Mark Seeley from the Univ. of Minnesota giving a keynote presentation entitled: "Climate Trends: Implications for Hydrologic Science in the 21st Century." This was a very interesting presentation because we as hydrologists all know that it is the weather that drives the surface and subsurface processes that we study in our profession. The uncertainty about the weather inputs is becoming an ever increasing important consideration in our analyses and designs.

A special session followed Dr. Seeley's presentation. The session was on the challenges in registration/certification of professional hydrologists. Dr. Doug James was the keynote speaker for this session.

Beginning on Monday afternoon there were concurrent technical sessions at the meeting which continued through Wednesday.

A poster session was held on Tuesday afternoon and lasted into the early evening. The posters covered topics across a wide field of subjects. The outstanding student paper award went to James Vogel, Student, Oklahoma State Univ., Stillwater, Oklahoma. His Advisor was Dr. Billy Joe Barfield (90-H-881), and the title of the presentation was "A. Hydrologic Model of Bioretention Cells for Controlling Runoff."

The two field trips planned in the afternoons of Tuesday and Wednesday were cancelled. One field trip to the Lock and Dam in Minneapolis had to be cancelled due to the change of policy due to the September activity.

Other activities that were held included:

A luncheon honoring past recipients of AIH awards was held after the Monday morning special session. The luncheon was presided over by AIH President Vijay P. Singh. Peter O. Wolf, the first R.K. Linsley Awardee (1988) was able to attend from England.

On Monday evening, the AIH Awards Banquet was held with the C.V. Theis Award going to Richard R. Parizek, the Ray K. Linsley Award to John J. Cassidy and the Founders Award to Verne H. Scott.

On Tuesday, the Distinguished Speakers Luncheon was particularly special. The speaker was Dr. Vit Klemes, Chief Scientist (Ret.) at the National Hydrology Research Institute, Victoria, British Columbia. His very interesting presentation was entitled "There is more to the Vltava River than its 175-Year Streamflow Record." Dr. Klemes received the AIH R.K. Linsley Award in 1995.

Editorial Board

Dr. Kirk Hatfield, Editor, Dept. of Civil Engineering, Univ. of Florida, 124 Yon Hall, Gainesville, FL 32611, Tel. (352) 392-9537 ext 1441, E-Mail: <khatf@ce.ufl.edu>.
Bruce L. Cutright, Principal, Kimley-Horn and Assoc., 8711 Perimeter Park Blvd., Ste. 6, Jacksonville, FL 32216, E-Mail: <bruce.cutright@kimley-horn.com>.
Mr. C. Robert (Bob) Aldwell, International Correspondent, Geological Survey of Ireland, Haddington Rd., Dublin 4, Ireland, Tel. (353-1) 671-5233, E-Mail: <aldwellb@tec.irlgov.ie>.

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"

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E-Mail for the Executive Committee

V. Singh	cesing@lsu.edu
G. Seaburn	gseaburn@bellsouth.net
P. Leahy	pleahy@usgs.gov
M. Campana	aquadoc@unm.edu
J. DLugosz	jdlugosz@cpinternet.com
R. Kanivetsky	kaniv001@tc.umn.edu
B. Cutright	bruce.cutright@kimley-horn.com
J. Wilson	Wilson@wilsonhydro.com
K. Brooks	kbrooks@forestry.umn.edu
A. Laenen	alaenen@earthlink.net

E-Mail/Web Page Addresses of AIH

AIH Office	AIHydro@aol.com
AIH Web Page	www.aihydro.org
AIH Web Manager	alaenen@earthlink.net

PRESIDENT'S MESSAGE

I want to take this opportunity to extend my best wishes to the entire AIH family a very happy and joyous Holiday Season. May the New Year bring each one of you peace and prosperity, health and happiness, and all the good things that you dream of.

As 2001 has drawn to a close, I am reaching the mid point of my term as your president. Although the end of the year is an occasion for family reunion, rejoicing, and enjoying the spirit of Christmas, I feel tempted to recap in brief what we have done during this year and what we intend to do in 2002.

This year has been an eventful year, to say the least. The year started on a good note and will hopefully end on an equally good note. We took several initiatives to ensure growth and viability of AIH. We have taken a significant step forward toward making registration of hydrologists mandatory for practice of hydrology. The State of Wisconsin has taken the lead and is the first state in the union to this effect. AIH is working with other states and our dream is that in not too distant a future, registration of hydrologists will become mandatory for practice of hydrology in each state, just like engineering registration is for practice of engineering. This will be a real boost to the profession of hydrology.

The other step we have embarked upon is toward establishment of student chapters, state sections and national sections. We are making a concerted effort to entice young people to join AIH. It is our earnest hope that these initiatives will start paying dividends in the very near future.

We are working to revamp the AIH journal and its operation. We expect to take some concrete steps shortly and I will communicate with you once we have things to report. Our objective is that the AIH journal should be a forum where people will take pride in sharing their unique practical experiences, and publishing their innovative concepts and theories. The journal should welcome practitioners, young people as well as students. We want to make it available on line to the AIH family.

We are also trying to establish links with other hydrology-related organizations in the world. In this information age, geographical boundaries have little relevance and we should take full advantage of the information revolution.

The 2001 International Conference on Hydrologic Science: Challenges for the 21st Century, marking the 20th anniversary of AIH was held in October Minneapolis and was a big success. We are looking forward to the next year's conference on hydrologic extremes to be held in Portland. AIH invites each of you to participate in this conference.

In the year ahead, we plan to move more aggressively toward increasing the AIH membership. We pan to establish more awards, including those for students and hydrologic practitioners. We wish to nurture what we have already initiated this year.

Before closing, my thoughts keep going back to September 11, 2001- the dark day that terrorists attacked the World Trade Center in New York and the Pentagon in Washington, D. C. The effects of these attacks continue to reverberate till today. Dr. Michael E. Campana, Vice President for Academic Affairs of AIH, lost his sister. I hope and pray that the spirit of Christmas will spread goodwill toward man and peace of earth. And this senseless carnage is never repeated. Then, we will have really understood the meaning of Christmas.

Once again, my best wishes for the New Year.

—Vijay P. Singh

2002 AIH INTERNATIONAL CONFERENCE AND ANNUAL MEETING

Hydrologic Extremes: Challenges for Science and Management

October 13-17, 2002

Check out the web page for the 2002 International Conference and AIH annual meeting. You can find it by visiting the AIH web page <www.aihydro.org> and clicking on the calendar for the Fall 2002 Annual Meeting. Currently, only the call for papers is on the web, but the information includes proposed conference topics and location. You should expect there to be changes to the web page between now and the conference date, so you should visit it periodically to find the most up-to-date information.

Those people in Oregon involved with the conference organization include: Antonius Laenen (Chair), James D. Ruff, Ivars Steinblums, Jon Lea, Jolyne Lea, John Risley, Richard Cassidy, Stuart McKenzie, and our AIH staff, Helen Klose.

For those wishing to contribute a paper or poster for the conference, the instructions for the submission of abstracts are outlined on the web page. The due date for submission of abstracts has been set for February 28, 2002. The plan is to have the program finalized and posted on the web page (under the heading of Conference Program) by June 15. It is also planned to have abstracts and papers both published for distribution and posted on the AIH web page.

The technical program for the 2002 Meeting is aimed to cover all of the areas of the hydrologic sciences. The tentative program themes are:

* Riparian Processes
* Climate Change
* Droughts and Floods
* Stream Temperature Standards and Modeling
* Endangered Species -- Competition for water -- environment, power, and irrigation
* Managing Forest Health
* Ground Water Variability -- response to extremes
* Water Quality Variability -- response to extremes
* Channel and watershed morphology -- response to extremes

Tentatively, activities in planning are two half-day workshops and two field trips. For short courses, we thought we might offer something in climate, temperature modeling, and ground water quality. For field trips we thought since the Lewis and Clark bicentennial was a year away, a historic presentation along with a geologic and hydrologic tour of the beautiful Columbia River Gorge would be of interest. Another interesting visit would be a geologic and fluvial tour of the Mt. St. Helens National Monument. We are also considering a half-day conference session to be held on the Portland State campus in downtown Portland.

Of course, there will be plenty of activities to take part in while you are in the Portland area. The Hotel offers beautiful views of both Mt. Hood and Mt. St. Helens. The Hotel will also provide transportation to our nearby light-rail system, and downtown is only 20-minutes away. All public transportation in the city center is free and readily available. Portland is considered one of the most livable cities in the USA and is beautiful as well. There is never any guarantee that October weather will be dry, but if the past years are any indication, then we will have plenty of sunshine.

The conference will be held at the Sheraton Portland Hotel, 8235 Northeast Airport Way, Portland, Oregon 97220-1398. Reservations can be made by calling (800) 325-3535 or (503) 281-2500.

—A. Laenen

Other Upcoming Conferences

April 15-17, 2002: Mitigating Severe Weather Impacts in Urban Areas, at the Texas Medical Center, Houston, Texas. Cost: $300 ($350 after Feb. 15, 2001). To Register go to: <http://www.rice.edu/flood> or <http://nhdr.ou.edu>. Conference sponsored by the International Center for Natural Hazards and Disaster Research, Univ. of Oklahoma, Energy and Environmental Systems Inst., Rice University and Texas Medical Center.

May 13-15, 2001 AWRA's Annual Spring Conf.—Coastal Water Resources. New Orleans, LA, Contact: AWRA, 4 West Federal St., P.O. Box 1626, Middleburg, VA 20118-1626 or call ((540) 687-8390 or by E-Mail: <info@awra.org>

MEMBERSHIP ACTIVITY

Applications Received

Jason E. Tidwell, J.F. New & Assoc., Walkerton, IN (1596-HIT)
Jack Newton Fleming, Marlar Eng., Co., Inc., Little Rock, AR (1597-H)
Jayme L. Laber, Ventura Co,. Flood Control Dist,, Ventura, CA (1598-H**)**
Gary M. Mryncia, Angier, NC (1599-HIT)
Jolyne K.H. Lea, USDA, NRCS Ntional Water and Climate Ctr., Portland, OR (1600-H)
Casiano Ancalle, CA Engineering, San Juan, PR (1601-H)
Velmurugan Subramanian, Norman, OR 1602-HGWIT)
Paul A. DeBarry, Borton-Lawson Eng., Wilkes-Barre, PA (1603-H)
John W. Nicklow, Southern Illinois Univ., Carbon-dale, IL (1604-H)
David A. Morley, Univ. of Wisconsin, Stevens Point, WI (1605-HIT)
George J. Christodoulou, Min. of Agriculture, Natural Resources & Environ., Water Development Dept., Paphos, Cyprus (1606-HG)

New Student Members

Robin W. Davis, Univ. of Texas, San Antonia, TX (334-S) (W. Hammond)
Brennan T. Mears, Univ. of Minnesota, St. Paul, MN (335-S) (K. Brooks)
William K. Borham, Univ. of Minnesota, St. Paul, MN (336-S) (K. Brooks)
Kristin M. Miller, Univ. of Texas, Austin, TX (337-S) (J. Sharp)
Velmurugan Subramanian, Univ. of Oklahoma, Norman, OK (338-S) (R.C. Knox)
David A, Morley, Univ. of Wisconsin, Stevens Point, WI (339-S) (E. Spangenberg)

New Members

Catherine F. Clifton (1556-H)
Terry A. Rightnour (1557-H)
Michael S. Kasch (1558-H)
Sierra Rayne (027-HIT)

New Member Addresses or Changes

William A. Bergman, Principal Civil Eng., Solids Processing Operations, Metro. Water Reclamation Dist. Of Greater Chicago, 7601 S. LaGrange Rd., Willow Springs, IL 60480, Tel. (708) 458-0370
David M. Burt, Corporate Director, Waste Management, Inc., 1001 Fannin, Ste. 4000, Houston, TX 77002, Tel. (713) 328-7381, Fax (713) 328-7380, E-Mail: dburt@wm.com (95-HG-1108) 121,138,123 M
Dr. Alexander H.D. Cheng, Prof., Dept. of Civil Engineering, Univ. of Mississippi, University, MS 38677, Tel. (662) 915-5362, Fax (662) 915-5523, E-Mail: acheng@olemiss.edu (95-HGW-1096) 121,137,149 B

Mari E. Danz, 220 So. Fourth St., Mount Horeb, WI 53572, Tel. (608) 437-1610. (99-HIT-012)

Steven W. Eng, Senior Civil Engineer, NorthRim Engineering, 17273 Bear Paw Circle, Eagle River, AK 99577, Tel. (907) 830-4186, E-Mail: NorthRimEng @aol.com (93-HGW-1017) 121,167,110 H

Dr. Ian C. Goulter, Prof., Charles Sturt Univ., Panorama Ave, Bathurst, New South Wales, 2795, Australia, E-Mail: igoulter@sturt,edu,au (95-H-550) 169,110,138 B

Joseph T. Gurrieri, Hydrologist, USDA, Forest Service, 1820 Meadowlark Lane, Butte, MT 59701, Tel. (406) 494-0230, E-Mail: jgurrieri@fs.fed.us (00-HGW-1533) 136,111,167 P

Robert B. Hedges, Pres., Hedges Environmental Consulting, LLC, 332 E. Main St., Lancaster, OH 4313, Tel. (740) 687-0346, E-Mail: rhedges@greenapple.com (89-HG-854) 165,111,136 G

Dr. John W. Hess, The Geological Society of America, P.O. Box 9240, Boulder, CO 80301-9140, Tel. (303) 357-1039, Fax (303) 357-1074, E-Mail jhess@ geosociety.org, (90-HG-869) 133,102,126 V

Dr. Robert M. Hordon, Water Resources Consultant, 8 Dov Place, Kendall Park, NJ 08824, Tel. (732) 297-8899, Fax (732) 422-9284 (84-H-349) 172,124,169 I

Dr. Theodore V. Hromadka, II, Principal, Integral Consultants, 3151 Airway Ave., Ste. H2, Costa Mesa, CA 92626, Tel. (714) 241-0090, Fax (714) 241-0092, E-Mail: thromadka@integral-consultants.com 110,113, 156 H

Dr. Neven Kresic, Hydrogeologist, Malcolm Pirnie, Inc., 1800 Diagonal Rd., Ste. 600, Alexandria, VA 22314 (92-HG-988) 120,137,133 G

Douglas C. Noel, Principal Water Resources Engineer, AMEC Earth and Environmental, Inc., 3800 Ezell Rd., Ste. 100, Nashville, TN 37211, Tel. (615) 333-0630, Fax (615) 781-0655, douglas.noel@amec.com (89-H-858) 171,168,162 G

John N. Paine, Program Manager, URS Corp., 11832 Rock Landing Dr., Ste. 306, Newport News, VA 23606-4212, Tel. (757) 873-0559, Fax (757) 873-0634, E-Mail: john_paine@urscorp.com (98-H-1494) 162,110,113 G

Harry A. Parrott, Senior Environmental Scientist, Tetra Tech, 175 No. Corporate Dr., Ste. 105, Brookfield, WI 53045 (84-H-496) 167,168,169 G

Dr. Stanley L. Ponce, Senior Advisor for Interagency Programs, U.S. Geological Survey, USDI, 102 National Center, Reston, VA 20192, Tel. (703) 648-7043, Fax (703) 648-7031, E-Mail: sponce@usgs.gov (83-H-146) 176,169,115 P

Michael A. Ports, Chief Hydraulic Engineer, HNTB Corp, 715 Kirk Dr., Kansas City, MO 64105 (86-H-644) 110,162,113 G

Sierra Rayne, Graduate Student, (Dept. of Chemistry, Univ. of Victoria), 1105-2361 Lam Circle, Victoria, British Columbia V8N 6K8, Canada Tel. (250) 721-7152, Fax (250) 721-7147(01-HIT-027)

Gary D. Rule, Hydrologist, National Marine Fisheries Service, 10215 W. Emerald St., Ste. 180, Boise, ID 83704, Tel. (208) 685-6906, Fax (208) 978-2599, E-Mail: gary.rule@noaa.gov (01-HIT-017)

George A. Schlutermann, Supervising Hydrogeologist, PB Water, Div. Of Parsons Brinckerhoff Quade & Douglas, Inc., 100 E. Pine St., Ste. 500, Orlando, FL 32801, Tel. (407) 587-7800, Fax (407) 587-7960, E-Mail: schluterma @pbworld.com (99-HG-1502)

Dr. P. Michael Terlecky, Hydrogeologist, Frontier Technical Assoc., Inc., 9120 Main St., Clarence, NY 14031, Tel. (716) 634-2293, Fax (716) 634-2344, E-Mail: MikeFTA@ excite.com (88-HG-790) 168,167,166 H

Michael J. Timmer, Associate, Malcolm Pirnie, Inc. 1700 W. Loop South, Ste. 950, Houston, TX 77027, Tel. (713) 960-7441, Fax (713) 840-1207 E-Mail: mtimmer@pirnie.com (96-H-1129) 165,171,166 G

David M. Wood, Vice President, DHI Portland, OR, 520 S.W. Sixth Ave., Ste. 930, Portland, OR 97204, Tel. (503) 827-5900, Fax (503) 827-5905, E-Mail: Dmwdhi@cs.com (95-H-1096) 110,113,137 H

Dr. G. George Yilmaz, Executive Director, Collier Co. Solid Waste Management Dept., 3301 Tamiami Trail E., Bldg. H, Naples, FL 34112, Tel. (941) 732-5202, Fax (941) 774-9222, (94-H-1061) 142,110,165 U

IN MEMORIAM

Dr. William E. Price, (84-HG-442) died August 11, 2001, in Tucson Arizona at age 76. He retired with more than 25 years with the U.S. Geological Survey. Dr. Price was one of the first student to gain a degree in the specialized field of Hydrology at the University of Arizona.

Dr. Herbert E. Skibtzke, (89-HGW-794) died July 24, 2001 at the age of 80. Mr. Skitbtzke worked as assistant to Dr. C.V. Theis and over 10 years they studied dispersion of nuclear waste disposed near ground-water aquifers for the U.S. Atomic Energy Commission. Herb served on a number of international scientific committees to develop water supplies and improve the water in many countries as well as in the U.S. Mr. Skibitzke worked as a research scientist with the U.S. Geological Survey for 30 years. He developed a laboratory in which radioactive tracers were used to observe ground-water movement in saturated porous media. His USGS position description acknowledged Mr. Skitbitzke as "...the leading authority in the (Water Resources) Division and the Survey for: mathematical theory describing ground-water motion; application of computational methods and analog models, to the solution of complex problems concerning the dynamics of fluid flow through entire aquifer systems… incumbent is an authority on the application of numerical analysis methods to the solution of large systems of simultaneous linear equations which are used in describing ground-water flow in aquifers having highly complex and irregular boundaries." In addition to serving on many boards and committees, he received numerous honors and awards including the AIH C.V. Theis Award in 1991. In 1960, he was co-founder of the Graduate School of Hydrology at the Univ. of Arizona, Tucson, Arizona.

Needed: Hydrologists to Lobby for State Registration

Wisconsin has now accepted the AIH exam as the official State Exam for Professional Hydrologists! We need interested and committed volunteers to lobby the remaining 49 states to accept our unequaled standards!

Starting in the year 2002, the AIH certification examination to be used will be a process that was developed cooperatively with the Wisconsin Dept. of Regulation and Licensing (DRL). Check out the AIH web site for examination details (www.aihydro.org). If the applicant passes the examination, he/she is also a qualified candidate for registration as a professional hydrologist with the state of Wisconsin. A team of test psychometricians and hydrologists developed the examinations. The exams were based on subjects provided by hydrologists from the entire United States, from both AIH membership and outside the membership. Exam questions were developed from questions and ideas submitted by a smaller but representative sample of these same hydrologists willing to take the time to help.

Applicants (and prospective license candidates) can currently choose either a principles and practice examination directed toward groundwater or a principles and practice examination directed toward surface water. Candidates taking either of these examinations must also take the fundamentals of hydrology examination, covering basic knowledge common to the general field of hydrology. Water-quality knowledge is implicit in all the examinations, and a separate water-quality principles and practice examination is currently being developed.

The fundamentals of Hydrology examination, formerly known as the AIH Part I exam, tests the understanding of basic hydrologic principles – including mathematics, physics, chemistry, geology, meteorology, engineering, soil science, and other related disciplines. This examination tests the breadth of understanding rather than depth in a particular specialty. The fundamentals examination is a closed book test of approximately 100 multiple-choice questions taken from a 300-question data bank. The fundamentals examination must be passed to be eligible to take the principles and practice examinations.

The principles and practice examinations, formerly called Part II exams, test the applicant's ability to sort out meaningful data and apply hydrological, hydrogeological, and water-quality analyses to practical problems of engineering design, water resource management, regional or on-site investigations, municipal or land use planning, research formulation, etc. They are designed to demonstrate the depth expected of practicing hydrologists in formulating practical solutions. The principles and practice examinations are open book examinations of approximately 100 questions, also derived from question data banks of approximately 300 questions each.

In the future, this same examination may also be used for registration in other states. This is where help is needed to promote the value of the test and the importance of the state registration of hydrologists. Only a few states have even considered the need for legislation requiring the registration of professional Hydrologists. We are now armed with a viable tool for testing the competence of scientists and engineers that profess to be proficient in making water-resources-related decisions. We need to develop networks of interested people within states that are progressive enough to encompass these ideas. Our membership is encouraged to volunteer their time towards this goal. Anyone interested should contact Tony Laenen, who is the current Chair of the Examination Committee. (alaenen@earthlink.net (503) 253-7213 AIHydro@aol.com (651) 484-8169)

—A. Laenen

Award Nominations Needed

The AIH Award Committee is soliciting nominations for the **R.K. Linsley Award,** for a major contribution in the field of surface-water or engineering hydrology, **C.V. Theis Award,** for a major contribution in the field of ground-water hydrology, and the **Founders Award,** for outstanding, long, and dedicated service to the Institute, for 2002.

Please submit your nominations to the AIH office at <AIHydro@aol.com>, by fax at (641) 484-8357 or by mail to AIH, 2499 Rice St., Ste. 135, St. Paul, MN 55113 by March 1, 2002. These awards will be presented at the 2002 Annual meeting to be held at the Sheraton Airport Hotel, Portland, Oregon, October 13-17, 2002.

AIH 20th Anniversary and Annual Meeting
October 14-17, 2001
Thunderbird Hotel, Bloomington, Minnesota

Pictures are not available on the web. If you wish to see them, contact the AIH office at AIHydro@aol.com to have a hard copy of the newsletter sent to you.

American Institute of Hydrology
2499 Rice St., Ste. 135
St. Paul, MN 55113-3724
Tel. (651) 484-8169, Fax (651) 484-8357
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Look for the 2002 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 I.D. No. as **93394** with the rate Code **BY**.

2002 Annual Dues

The invoices for 2002 have been sent out. They were mailed out with first-class postage so if the Post Office can forward it they will. If you see that the information was forwarded to you, please be sure to update the information when returning it with your payment. We would be grateful if you would remember to keep us updated as a move

Journal is now available on CD

The AIH journal, "Hydrological Science and Technology" is now available on CD. Contact the AIH office for further information by phone or e-mail.

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