

International Association of Hydrogeologists

U.S. National Chapter

Newsletter

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Editors: **Todd Halihan, Oklahoma State University**
Jack Sharp, The University of Texas



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MEMBER NOTES

OBITUARY: Philip LaMoreaux, Sr.



IAH/US NATIONAL CHAPTER: EXECUTIVE COMMITTEE 2005-2008

Chairman	John M. (Jack) Sharp jmsharp@mail.utexas.edu	University of Texas at Austin 512-471-3317
Secretary-Treasurer:	Todd Halihan todd.halihan@okstate.edu	Oklahoma State Univ. 405-744-6358
Past-Chair:	Leonard F. Konikow (USGS)	lkonikow@usgs.gov
Director:	Colin J. Booth (Northern Illinois Univ.)	colin@geol.niu.edu
Director:	Victor Heilweil (USGS)	heilweil@usgs.gov
Director:	Noel Krothe (Indiana University)	krothen@indiana.edu
Director:	Michael Wireman (US EPA)	Wireman.Mike@epamail.epa.gov

EDITOR'S NOTE

As we head into an election year not only for the country, but more importantly for the IAH US national chapter, I reflect on my time as the secretary-treasurer. During this time, the US chapter has become a non-profit entity in this country, which will be very important for letting us build a stronger organization. We can now accept donations to increase the impact of our membership on the world of hydrogeology.

There is much work to do however. During my time as secretary-treasurer, our ranks have decreased in size, and increased in age. Younger members need to be recruited and the prospect of a good paper journal is not as attractive to younger members who primarily use electronic articles. If our organization is going to continue to have an impact, we need to determine how to attract and retain new members. As the world's water problems grow, our organization represents professionals who understand the dynamics of 98.5% of the available fresh water on Earth should grow as well.

We have also made a change in the positions for the future. Maintaining membership roles and writing newsletters is a two person job. So now it will be two people, which may make it easier (and your newsletters may arrive on time). The future will also include decisions on what types of investments our non-profit organization should make to improve the world's water supply and the people who study and manage it.

Thanks for the support during my time as secretary-treasurer. I genuinely appreciate it. Remember there is a difference between the euro and the dollar. Finally, IAH has made it to YouTube. You can see our finest at: http://www.youtube.com/watch?v=BRIV_bRgLZQ.

-Todd Halihan



CHAIRMAN'S REPORT

Colleagues,

I hope you have had a rewarding year in the fascinating field of hydrogeology and I welcome you to the next meeting of the International Association of Hydrogeologists, U.S. National Chapter (IAH/USNC) Executive Committee. This meeting will convene at the GSA annual meeting in Houston, Texas, Sunday afternoon, October 5 and is open to all IAH members. It is scheduled at 5:00-6:00 PM in Room 352B in GRB Convention Center. We hope to conclude the meeting before the GSA welcoming party starts.

The major agenda items are:

- Our status of incorporation as a nonprofit organization - I am pleased to announce that we are finally formally recognized as a non-profit 501c3 by both the State of Colorado and the USA. We can finally start obtaining interest income and solicit for donations.
- The joint conference with UNESCO - U. California at Irvine- USGS, entitled "Water Scarcity, Global Changes, and Groundwater Management Responses," Mike Wireman and Suzanne Pierce have overcome multiple obstacles and have prepared an impressive program.
- Future programs with GSA and NGWA. Our goal is to have a program very fall in conjunction with GSA's annual meeting and every spring in conjunction with the NGWA's Ground Water Summit. Vic Heilweil has taken the lead on the latter. We would like volunteers for the former also.
- Other future meetings & conferences – ideas? We should be perhaps acting to sponsor an co-sponsor more of these.
- Membership – our membership has declined slightly. What do we do to reverse this? Also why do so few Americans attend the IAH Congresses? The Congress in Lisbon last year was exceptional. This fall's congress is in Toyama, Japan.
- Announcement and ratification of our election – see following item.

The GSA meeting in Houston should be huge. There are so many hydrogeology-related symposia, sessions, field trips, and short courses that I cannot even try to list them. Go to the GSA website at <http://gsa.confex.com/gsa/2008AM/finalprogram/> for a listing of the events.

- Jack Sharp



ELECTION OF OFFICERS FOR 2009-2012

The Nominations Committee consisting of Colin Booth, Jack Sharp, and Cliff Voss has nominated a slate of candidates that reflect IAH's broad constituencies of private consultants, government scientists, and academics. There is also a mix of old hands and new blood.

The slate is as follows:

Chair: Mike Wireman. Mike is with the US EPA in Denver and has worked in the Baltic countries, Ukraine, Romania, and Georgia. He is currently one of our Directors and is an advisor to the Mountain Studies Institute. Mike is taking the lead in the UNESCO-UCI-USGS-IAH Conference coming up next December.

Secretary: Dave Kreamer. Dave is with the University of Nevada at Las Vegas. He has a strong interest on groundwater issues in developing countries. He recently chaired or co-chaired sessions on this topic at the UCOWR, the NGWA Groundwater Summit, and GSA. Dr. Kreamer researches the fate and transport of a variety of contaminants and worked in many countries.

Treasurer: Vic Heilweil. Vic is with the U.S. Geological Survey in Salt Lake City. He has had a strong role in their international water resources activities. He is currently one of our Directors and is also the lead in our collaborative efforts with NGWA and their annual Ground Water Summits.

Director: William Alley. Bill is the Chief of the Office of Ground Water for the U.S. Geological Survey. He is an Associate Editor for the Hydrogeology Journal and active in many ground-water organizations. Dr. Alley has published over 80 scientific publications, including the text *Regional Ground-Water Quality*.

Director: Vicki Kretsinger Grabert. Vicki is principal hydrologist with Luhdorff & Scalmanini, Consulting Engineers. She is the Founding President of the Groundwater Resources Association of California (GRA) and has advanced IAH through a joint membership program (now affiliate program) with GRA, co-sponsored GRA Conferences with IAH, and contributed articles to this and other newsletters.

Director: Jim Lamoreaux. Jim is president of the international environmental hydrogeological consulting firm, PE LaMoreaux & Associates, Inc. (PELA). Dr. LaMoreaux was recently appointed Editor in Chief of *Environmental Geology* published by Springer Verlag, responsible for the Americas, Australia and Eastern Asia. Jim is a regular attendee at IAH Congresses.

How to vote: Go to <https://rock.geosociety.org/Ballot/IAH/> and use your email as the login password. Write-in candidates are allowed. Voting must be complete by 15 September 2008. Ballots will be sent by mail to the few members for whom we have no email address.



ARTICLES AND REPORTS

INTERNATIONAL CONFERENCE ON WATER SCARCITY, GLOBAL CHANGES, AND GROUNDWATER MANAGEMENT RESPONSES

The International Conference on Water Scarcity, Global Changes, and Groundwater Management Responses will be held on December 1-5 at the University of California, Irvine. This very timely meeting is being convened by UNESCO, the University of California – Irvine and the USGS. The US Chapter of IAH is a co-sponsor for the conference. The primary goal of this conference is to bring together leading water management and climate change experts, scientists and engineers, policy makers, attorneys, economists and water supply managers in a forum which promotes the exchange of ideas on the following themes:

1. Issues and challenges of global changes on river basins and aquifer systems;
2. Improving water governance for sustainable responses to water scarcity
3. Ecohydrology and sustainability
4. Water and life support systems
5. Traditional and innovative techniques and technologies supporting the identification and remediation of water scarcity issues and global climate change impacts on water resources

This conference will specifically stress the unique role of ground water in water-scarce areas and its significance in most other areas and anticipated effects of global climate changes on ground water resources. The US Chapter of IAH will have an active role in the session on improving water governance for sustainable responses to water scarcity. The conference website is UNESCOUC@uci.edu. Please feel free to contact Mike Wireman, (wireman.mike@epa.gov) if with any questions regarding IAH involvement.

INTERNATIONAL ASSOCIATION OF HYDROGEOLOGISTS EXECUTIVE MEETING 1-2 FEBRUARY 2008

10 Membership Report

TO RECEIVE A REPORT ON MEMBERSHIP TRENDS AND RECOMMENDATIONS FOR ACTION TO INCREASE MEMBERSHIP

The paper reviews membership trends for the Association as a whole and particularly focuses on the trends in the twenty countries with the largest membership, which makes up three quarters of the Association's total membership.

Happily, the drop in membership which occurred in 2006 has been reversed in 2007 and we finished the year with a record membership of 3857. We had hoped that we might achieve a membership of 4000 by the end of 2008. That is still possible but, although membership



turnover each year is around 400-500, we have not in recent years managed a net increase of greater than 100, so to hit 4000 by the end of 2008 is going to take a special effort.

It is particularly pleasing that the growth in 2007 has come almost entirely in high income countries, which is essential if we are to turn increased membership into increased disposable income. The 2007 figures compared with the five previous years are shown in Table 1.

Table 2 shows the trend from 2001 for the top 201 countries and this same data is shown graphically in Charts 1 and 2. Table 3 shows the change for all countries with significant membership from 2006 to 2007 with those with more than a 15% change highlighted.

The most significant of the increases from 2006 to 2007 are from France, Norway, Japan and Australia, followed by Netherlands, Poland, Serbia and Ghana. Australia is now far and away the largest Chapter. Canada has moved into second place ahead of Spain and the US. The most significant decreases were the US, Sweden and India. Other major countries have shown a small decline.

In order to understand the sources of growth we prepared Table 4 which analyses the increased membership in selected countries in terms of new and returning members and the extent to which the National Chapter has been part of the recruiting process.

A number of countries have taken steps this year to chase up non-renewals. This is welcome action by National Chapters who have not always been particularly responsive to membership decline. As part of the web site upgrade we will, from March, be providing an improved membership reporting service. This will keep Council and National Chapters informed on month by month changes to help target membership retention (and possibly also provide an element of "name and shame"). The service will comprise a monthly membership report, covering the whole Association (for the Executive), each region (for regional VPs) and countries (for National Chapters). It will give data for the current month, previous month and (from 2009) same month in the previous year. The system will also enable any National Chapter to download a full membership listing at any time to enable them to identify and follow up on membership losses.

It is suggested that the targets for membership growth are:

- Established IAH countries (such as France and Netherlands) where, as 2007 has shown, declining trends can be reversed;
- Japan which might be expected to increase further as a result of the Toyama congress;
- Countries where membership is below expectation – notably the US, but also Sweden;
- “New” Europe – Slovenia, Poland, Croatia and Serbia have stronger membership but this is not repeated in the entire region despite the similar legislative pressures;
- Affluent states in MENA.

This list focuses on higher income countries recognising that, although world-wide growth is desirable in terms of the IAH mission, it is growth in the above countries which will underpin the business plan.



¹ This list is the top 20 over the period. There are a number of countries who on this years figures should be included (Serbia, Greece, Nigeria, Norway, Poland and Argentina all have more members now than India).

RECOMMENDATION

It is recommended that the Executive Committee agree a membership retention and growth strategy with the short term goal of reaching 4000 members by the end of 2008 and a more ambitious longer term goal.



Table 1: Membership by Region (end year figures going forward to following year)

	2002	2003	2004	2005	2006	2007
Africa (sub Sahara)	165	167	159	206	201	204
North Africa and the Middle East	75	77	88	84	78	90
Asia	243	218	218	238	265	263
Australasia and the Pacific	389	426	455	502	477	498
Eastern Europe	242	217	235	338	351	365
North America	754	720	697	704	695	685
Latin America and the Caribbean	309	300	300	213	211	207
Western Europe	1473	1496	1573	1539	1485	1545
Total	3650	3621	3725	3824	3763	3857

Table 2: Membership "Top 20" countries (end year figures going forward to following year)

	2001	2002	2003	2004	2005	2006	2007
Australia	261	372	410	444	487	461	484
Canada	310	317	295	276	290	339	352
Spain	349	354	364	367	356	346	340
USA	281	442	421	416	410	354	330
United Kingdom	217	235	232	243	236	226	234
France	198	157	149	163	158	122	163
Germany	178	164	154	162	161	155	153
Switzerland	133	138	133	145	127	133	137
Ireland	99	103	103	114	126	134	135
Netherlands	74	77	67	71	58	59	77
PR China	82	75	73	73	76	76	75
Italy	68	74	71	81	75	70	66
Croatia	52	60	56	56	60	60	64
Mexico	82	78	70	85	69	72	64
Slovenia	44	44	47	47	52	58	59
Japan	36	30	35	35	35	43	55
Belgium	25	24	48	46	54	58	54
Portugal	31	38	39	45	44	49	52
South Africa	39	43	43	52	59	51	48
India	42	45	34	33	37	42	29
Top 20 total	2559	2825	2810	2921	2933	2866	2942
IAH total	3365	3650	3621	3725	3824	3763	3857



Table 3: Change in membership in 2007 (up >15% in green; down >15% red)

	2007	2006	%		2007	2006	%
Australia	484	461	5	Czech Republic	25	28	-11
Canada	352	339	4	Chile	24	27	-11
Spain	340	346	-2	Korea, Rep Of	20	20	0
U.S.A.	330	354	-7	Russia	20	20	0
United Kingdom	234	226	4	Morocco	20	16	25
France	163	122	34	Nepal	19	17	12
Germany	153	155	-1	Turkey	19	17	12
Switzerland	137	133	3	Ghana	18	13	38
Ireland	135	134	1	Bulgaria	18	18	0
Netherlands	77	59	31	Indonesia	16	18	-11
Pr China	75	76	-1	Uganda	15	16	-6
Italy	66	70	-6	Austria	15	16	-6
Croatia	64	60	7	Thailand	14	16	-13
Mexico	64	72	-11	Slovakia	14	15	-7
Slovenia	59	58	2	Egypt	14	3	367
Japan	55	43	28	Sweden	12	16	-25
Belgium	54	58	-7	Botswana	10	10	0
Portugal	52	49	6	Ethiopia	10	10	0
South Africa	48	51	-6	Tanzania	10	11	-9
Serbia	46	40	15	New Zealand	10	12	-17
Greece	44	52	-15	Colombia	10	10	0
Poland	42	33	27	Cuba	10	9	11
Norway	40	30	33	Ecuador	10	11	-9
Nigeria	35	35	0	Peru	10	11	-9
Argentina	32	27	19	Denmark	9	7	29
India	29	42	-31	Namibia	8	8	0
Hungary	27	26	4	Kenya	7	5	40
Brazil	27	25	8	Finland	7	8	-13
Romania	25	25	0				

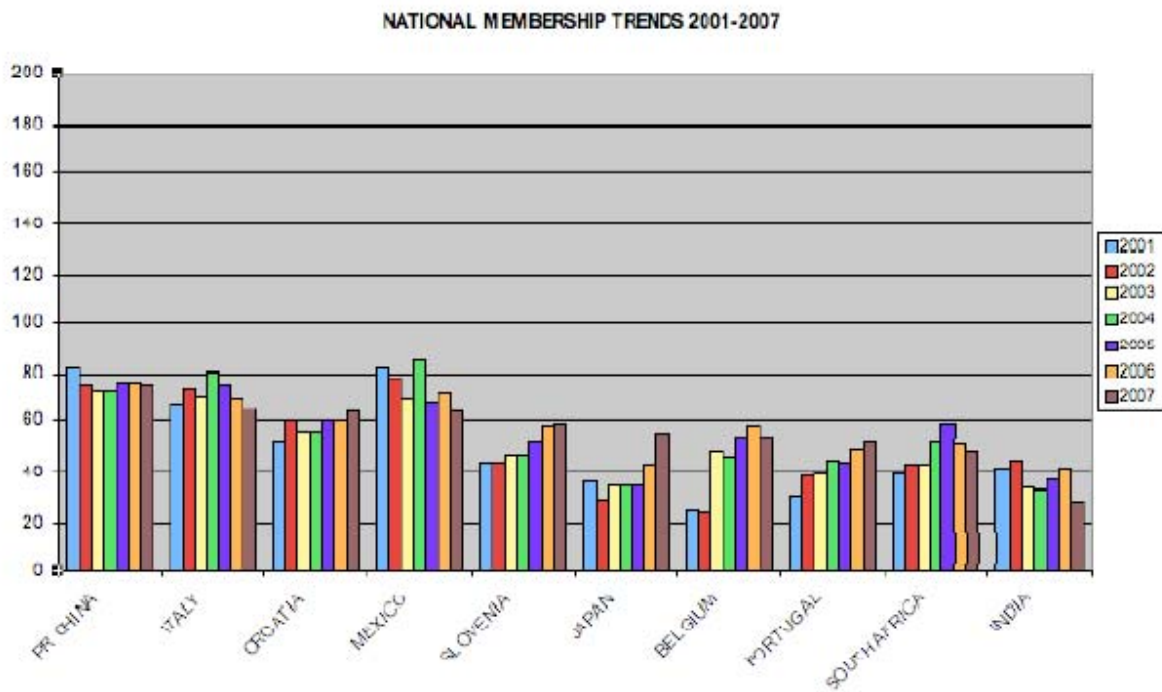
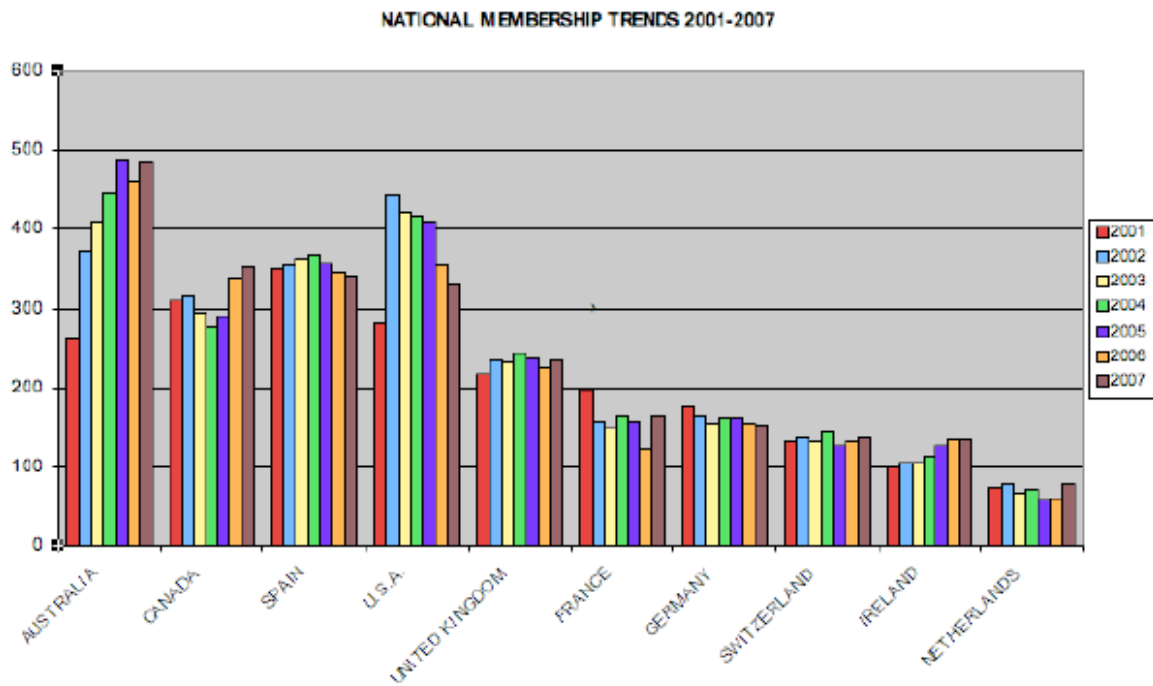
Table 4: Analysis for selected countries of source of membership growth.

Direct membership is by mail, fax or web direct to the IAH office.

	Rejoin via NC	New via NC	Rejoin direct	New direct
France	46	17		
Morocco		4		
Netherlands	1	10	4	5
Ghana				4
Egypt	7	2		5
Japan	4	4	1	4
Poland			2	7
Norway		13		
Argentina	12		1	
Total	70	50	9	23



Charts 1 and 2: Membership trends for the “top 20” countries





ANNOUNCEMENTS

Lois K. Ongley was appointed Secretary of Chemists Without Borders

Congratulations to Lois on her appointment to Secretary of Chemists Without Borders. Lois Ongley is Associate Professor of Chemistry at Unity College in Maine. She has earned both a BA and an MS in Geology (1973 Middlebury College and 1977 Texas A&M University) as well as an MES and PhD in Environmental Science and Engineering (Rice University 1988 and 1993). Her professional work includes stints as a shipboard oceanographic technician and as an oil and gas exploration geologist. She was the founding president of the Association for Women Geoscientists Foundation and also served that organization as treasurer. Dr. O has taught chemistry in secondary schools as well as chemistry, hydrogeology, geology, and aqueous geochemistry at the college level. She and her undergraduate students have collaborated with Dra. Aurora Armienta and Dr. Ramiro Rodriguez of UNAM to study the arsenic contamination in Zimapan, Mexico, with funding from the National Science Foundation's Research Experience for Undergraduates Program. She now teaches general chemistry, organic chemistry, analytical methods, and environmental analysis at Unity College.

Fulbright Visiting Chair in Water and the Environment at the University of Lethbridge (UL) opening in Canada

I would encourage anyone interested to consider applying for the Fulbright Visiting Chair in Water and the Environment at the University of Lethbridge (UL). I had the pleasure to be the first chair in the Fall of 2007. UL is a dynamic, growing university, in a Canadian province experiencing an exciting period of growth and wealth. In the summer of 2008, faculty from across UL will move into the new Alberta Water and Environmental Science Building. UL is part of the Alberta Water Research Institute, an outgrowth of the Alberta Ingenuity Fund, with the University of Calgary and the University of Alberta. Together, they are conducting leading edge research in support of a provincial water strategy know as "Water for Life". The visiting chair position is supported by the province through the Canadian-U.S. Fulbright Program Foundation. Although Alberta is still largely dependent on surface water as a supply, future growth and energy resource development are placing new demands on the groundwater resources of the province. The position is for a research chair. The chair must write a research proposal for the application, then conduct the research, develop collaborations, and offer occasional guest lectures. My research proposal was to study the ecohydrology of the springs of Western Canada. I was able to visit 80 springs in Alberta and adjoining provinces and to collaborate with colleagues at all of the universities in Alberta and Saskatchewan and numerous federal and provincial agencies. The collaborations are being used to help build a research agenda for springs ecosystems in Western North America. In addition to the research grant, the Foundation is able to provide a "mobility award" to travel the country.

Details about the application and award can be found at the following web site. Applications are due August 1, 2008. Please feel free to contact me for any questions at abe.springer@nau.edu.
http://www.cies.org/award_book/award2009/award/Env9540.htm



Environment, Health and Sustainability: University of Lethbridge Research Chair in Water and the Environment

Award #9540

Category: Research

Deadline: August 1, 2008

Grant Activity: Conduct research, develop collaborations and offer occasional guest lectures at the undergraduate or graduate level.

Specialization(s): Water quality and safety, water resources management, consumption patterns, water economics, water and society, water-related health issues, the relation of water resources and climate change, development and implementation of beneficial management practices

Additional Qualifications: Junior scholars with promising research records as well as established senior scholars are encouraged to apply.

Location: Alberta Ingenuity Institute for Water Research (AIWR), University of Lethbridge

Length of Grant: 4 months or 9 months

Starting Date: September 2009 for academic-year grants; September 2009 or January 2010 for one-semester grants

Comments: The AIWR is a new and progressive partnership among Alberta's three research universities. Well-established research scientists and engineers form the Institute's foundation and recruit talented water researchers, promote research opportunities for junior colleagues and help to train the next generation of water researchers. The proposed research projects are designed to fill knowledge gaps pertinent to Alberta. The AIWR will be of international caliber, producing high impact journal papers and developing applications specific to Alberta and relevant worldwide. For further information, please visit www.aicwr.ca or www.fulbright.ca.

Staff: Assistant Director Carol Robles, 202.686.6238, crobles@cies.iie.org or Program Associate Adrienne Capkovic, 202.686.6237, acapkovic@cies.iie.org

*-Abe Springer
Professor of Geology
NAU Coordinator
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Northern Arizona University*

CONFERENCE AND MEETING NOTICES



Ground Water Connections

Conference

You are invited to present at the

2008 Ground Water Connections Conference

Merging Policy, Issues and Science



September 23 - 24, 2008
Doubletree Hotel - Riverside
2900 Chinden Blvd
Boise, ID



Call for Presentations and Posters

The 2008 Ground Water Connections Conference will offer attendees the opportunity to learn about recent ground water projects in Idaho and adjacent states through a forum of presentations, posters and professionally-taught short courses on ground water modeling, water rights and local planning and funding strategies. We encourage non-technical people to participate as non-technical field trips will be available. You are invited to submit an abstract in one or both the presentation and poster categories. Abstracts are due by May 9, 2008.

Ground water topics may include, but are not limited to:

- Agricultural Impacts
- Aquifer Vulnerability and Protection
- Community Planning and Impacts
- Emerging Contaminants
- Water-Energy Nexus
- Resource Management
- Growth and Development
- Long Term Aquifer Safe Yield
- Managed Recharge
- Mining Impacts
- Modeling
- Science and Policy—Past and Future
- Surface Water and Ground Water Interactions
- Trends in Water Quality and Water Quantity
- Water Use and Re-Use

Call for Abstracts

Due May 9, 2008

For more information contact: Julie Scanlin at jscanlin@uidaho.edu



Ground Water Connections

Conference

Abstracts are due by Friday, May 9th, 2008. Please limit your abstracts to 250 words and submit in MS Word or pdf format as an email attachment or on-line at iwrri@uidaho.edu/groundwaterconnections. Include your name, company or organization, mailing address, telephone and fax numbers, and email address. Please note the appropriate category (presentation or poster), as well as the topic area you are submitting under. **Presenters** will have 20 minutes for presentations and questions. **Posters** will be displayed throughout the conference and will be viewed at the poster reception.

If you have any questions or unique requirements for your presentation or poster, please contact Julie Scanlin by email at jscanlin@uidaho.edu, by phone at (208)332-4414, by fax at (208) 332-4400 or by mail at Ground Water Connections 2008: Atten: Julie Scanlin, Idaho Water Resources Research Institute, Idaho Water Center, 322 E. Front Street, Boise, ID 83702.

For more information contact: Julie Scanlin at jscanlin@uidaho.edu



GEOLOGICAL SOCIETY OF AMERICA ANNUAL MEETING
October 5-9 · Houston, TX
2008 JOINT MEETING: Celebrating the International Year of Planet Earth

www.geosociety.org

MEMBER NOTES



The Sandhills of Nebraska saw a truly international investigation team this May as a five country team performed field work on the lake systems present there. Participants included (from left), John Ong, (Phillipines, Uni Nebraska Lincoln Graduate Student), Vitaly Zlotnik, (Russia, UNL Faculty), Ashraf Shabana (Egypt, Research Scientist, Desert Research Center), Kathy Thompson (U.S., IAH Student Member), Yasemin Leventeli (Turkey, Akdeniz University Faculty), and Todd Halihan (U.S., IAH Secretary-Treasurer, OK State University Faculty).



OBITUARY

Tuesday, June 24, 2008

[In memoriam - Philip LaMoreaux, Sr.](#)



Phil LaMoreaux died on 24 June 2008. He was one of the more influential leaders in the earth sciences in recent decades. He was a mentor to many in his roles as an internationally respected hydrogeologist and environmental geoscience leader, a teacher, and colleague. He was respected for his personal and professional qualities. The first word that comes forth when anyone mentions Phil is "gentleman." He was always gracious and upbeat. He drew forth the best from everyone he worked with.

Philip LaMoreaux worked started as a geologist and hydrologist for the U.S. Geological Survey from 1943-1961 and was appointed Chief of the Ground Water Branch, Washington, DC in 1959. Served as Alabama State Geologist and Oil and Gas Board Supervisor 1961-1976. He founded P E LaMoreaux and Associates (PELA), a geological and environmental consulting company in 1970. He served as Director, American Water Resources Association in 1971. He was elected to the National Academy of Engineering in 1987, "for geological and geotechnical contributions to groundwater resource development and to hazardous waste disposal and management." He was president of the International Association of Hydrogeologists and contributed mightily to both the Karst Commission and the Mineral and Thermal Waters Commission. He was named an Honorary Member of IAH in 1989. Phil and PELA have been frequent exhibitors at our conferences and congresses.

You may also recognize his name as the founder of the journal "Environmental Geosciences."
