



AIH is here to serve the profession and the members

- AIH is the only organization that certifies professionals in the fields of surface water and groundwater hydrology, and water quality both nationally and internationally.
- AIH provides educational training venues to the professionals in the field of hydrologic sciences.
- AIH speaks to lawmakers on behalf of you and the profession as an advocacy



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President's Message

Emitt C. Witt III, P.H.



My term as AIH President ends very soon and I will fall back to the past-President role allowing our president-elect Steve Nix to assume the Presidential office. It has been an honor to serve this organization and hopefully my time here has brought some new ideas to the organization. Our membership is growing again and as a result of a lot of belt-tightening, we are running with a budget surplus. Steve comes to us with Executive leadership experience having served as President of the American Water Resource Association. Steve also held the AIH Vice President for Academic Affairs position from 2005 -2007. I look forward to the direction he will give to this organization.

I am happy to report that after a year of negotiation with the University of Iowa, we now have a signed Memorandum of Understanding for that organization to teach a hydrology field methods course leading to a Level I Hydrologic Technician certification. Students who receive a passing score on the AIH examination, proctored by the University, will be offered membership in our organization.

I promise to keep this message short as we have a lot to cover in this issue of the Bulletin. Elections for Executive Offices are coming up and we have published the biographies of each candidate for office. We currently have four important positions that need to be filled for the coming year. These include the President-elect, the General Secretary, the Vice President of Institutional Development, and the Vice President for Communication. Please take the time to review these candidates and vote promptly when you receive the ballot from the Executive Director.

Please have a safe and happy holiday season!

From the Executive Director



Greetings from Carbondale, IL! As we approach the end of another year, it is time to begin renewing our memberships. This year we have implemented a web-based approach for renewal. We hope you will take advantage of this feature. Many of you have already enrolled in our new web payment system. This system is designed to keep you better informed about our organization and to help streamline the membership billing and accounting process. If you have any questions about this new feature or would still like to be billed via email, please do not hesitate to give me a call.

During 2012 the Institute continued to grow with 23 new members approved for certification. We also had several returning members who got lost in the shuffle during our HQ move in 2009.

I see great promise in our organization for 2013—we can expect another year of innovation, advancement, and growth. The following is a list of all our new members for 2012. Our Board of Registration deserves special mention for their dedicated work assuring that each candidate credentials are fully evaluated.

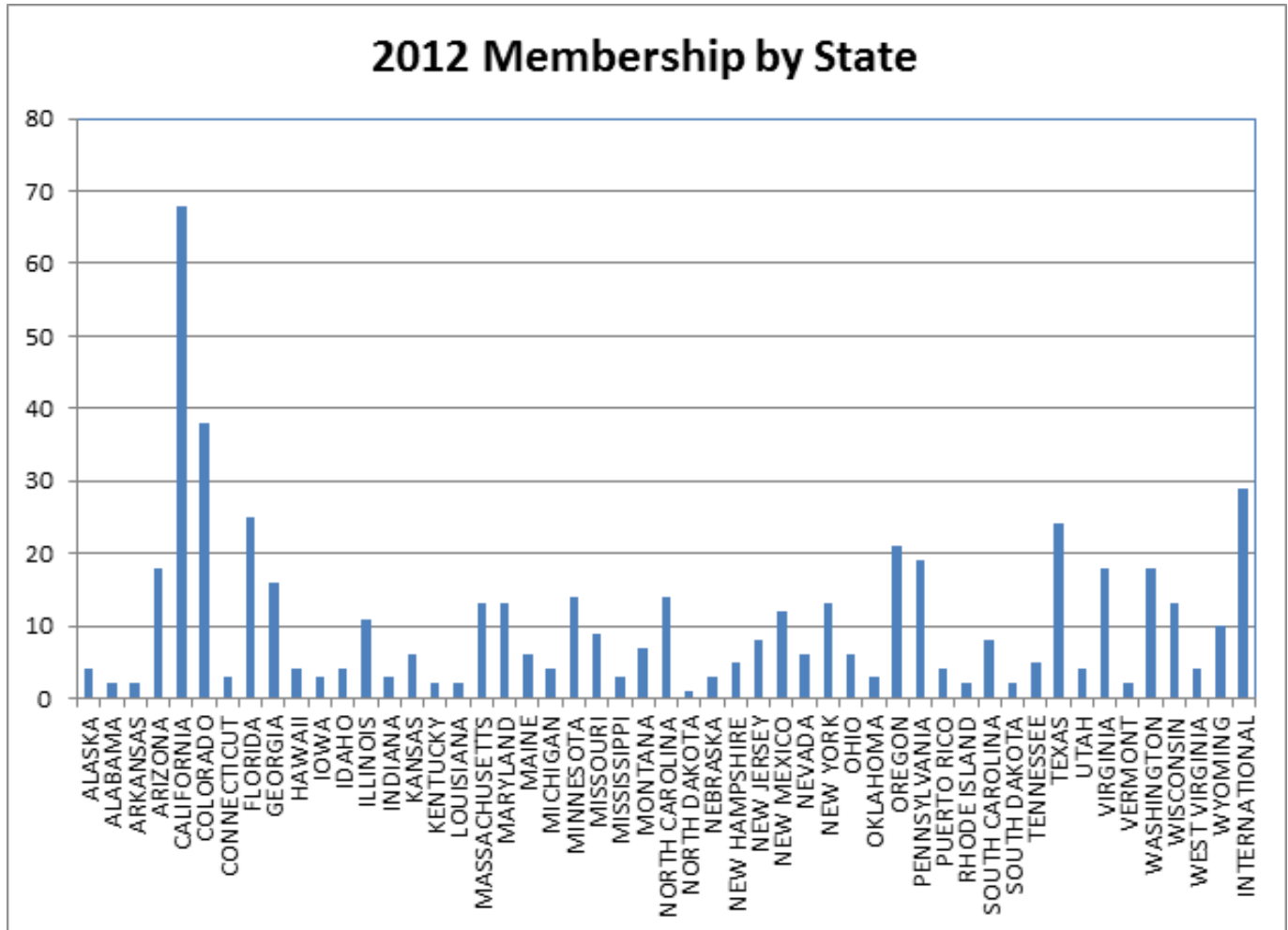
Hydrologist

Name	Certification	City	State
Cummings, Robert S.	12-H-4001	Murrieta	CA
Ghanbari, Reza Namdar	12-HGW-4002	Eau Claire	WI
Hale, V. Cody	12-H-4003	Athens	GA
Li, Xiangang	12-H-4004	Honolulu,	HI
Ranade, Rahul	12-H-4005	Sacramento	CA
Mondry, Zackary J.	12-H-4006	Raleigh	NC
Chase, Kimberly	12-H-4007	Port Matilda	PA
Belby, Brendan R.	12-H-4008	Sacramento	CA
Karki, Amit	12-H-4009	Longmont	CO
Cody, Theresa L.	12-H-4011	South Lake Tahoe	CA
Meier, James R.	12-HGW-4010	Sacramento	CA
Gurdak, Jason J.	12-HGW-4012	San Francisco	CA
Chelbezan, Jacqueline M.	12-H-4013	Greenville	SC
Howe, Charles S.	12-H-4014	Manchester	NH
Hunter, Stephen J.	12-H-4015	Glenwood Springs	CO
MacKinnon, Kevin A. C.	12-HGW-4016	Peabody	MA
Landry, Amy Kaarlela	12-H-4017	Fort Worth	TX
Wilmoth, David P.	12-H-4018	Richmond	VA
Bilodeau, Joel M.	12-H-4019	Richmond	NC
Shray James M.	12-H-4020	Huntington	WV
Beck, Darren	12-H-4021	Denver	CO
Bellingham, Bryant K.	12-HWQ-4022	Portland	OR

Hydrologic Technician

Headley, Christopher T.	12-HT-1043	Athens	GA
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Our 2012 Registry is now available to all members. If you have not already, you should be receiving an email with a link to this document. AIH now includes 534 members in good standing. The chart below shows our membership distribution by state. Notice we have a small but dedicated following of international members. We hope to continue growing that part of our organization.



I close with a big 'thank you' to all our membership and I encourage each of you to keep the flow of ideas coming my way. Have a safe and happy holiday season!

Rolando Bravo
Executive Director

Dr. David R. Maidment receives 2012 Ray K. Linsley Award



The Ray K. Linsley Award was established in 1986 to recognize individuals who have made outstanding contributions in surface water hydrology. Dr. Linsley made numerous contributions to surface water hydrology and was the principal author of the textbook, *Applied Hydrology*, published by McGraw-Hill in 1949. This recognition has been awarded 20 times since its establishment and the Institute is honored to add Dr. David R. Maidment to this list of eminent surface water hydrologists.

David R. Maidment is the Hussein M. Alharthy Centennial Chair in Civil Engineering at the University of Texas at Austin where he has been on the faculty since 1981. He received his Bachelor's degree in Agricultural Engineering with First Class Honors from the University of Canterbury, Christchurch, New Zealand, and his MS and PhD degrees in Civil Engineering from the University of Illinois at Urbana-Champaign. Prior to joining the faculty at the University of Texas, he was a research scientist at the Ministry of Works and Development in New Zealand, and at the International Institute for Applied Systems Analysis in Vienna, Austria, and he was also a Visiting Assistant Professor at Texas A&M University.

David is a specialist in surface water hydrology, and in particular in the application of geographic information systems to hydrology. In 2011 he received the **Ven Te Chow Award from the American Society of Civil Engineers** "For notable contributions in water resources engineering, hydrology and hydraulic engineering, outstanding service to the profession through application of GIS in surface water and groundwater hydrology, authoring books and research papers in water resources engineering, and mentoring of young engineers." In 2011 he received the **Distinguished Alumnus Award, Civil and Environmental Engineering Alumni Association, University of Illinois at Urbana-Champaign**. "For significant and lasting impact on teaching, research and practice in the fields of hydrology and water resource engineering, including the pioneering of geographical information systems applications in hydrology and technologies that have been adopted by national and international institutions". In 2010 he received the **AWRA Award for Water Resources Data and Information Systems**, "In recognition of his outstanding contributions to the application of Geographic Information Systems to water resources engineering and sciences." This award was also permanently renamed the **David R. Maidment Award for Water Resources Data and Information Systems**, "In honor of his many contributions to the field and his furtherance of the mission of the American Water Resources Association."

David teaches classes in surface water hydrology and GIS in Water Resources. From 1992 to 1995 he was Editor of the [Journal of Hydrology](#). David is also co-author of the text [Applied Hydrology](#) (McGraw-Hill, 1988), Editor in Chief of the [Handbook of Hydrology](#) (McGraw-Hill, 1993), co-editor of the monograph [Hydrologic and Hydraulic Modeling Support with GIS](#) (ESRI Press, 2000), co-author

Mustafa M. Aral - President-Elect



Mustafa M. Aral has been a faculty member at School of Civil and Environmental Engineering, Georgia Institute of Technology since 1980, specializing in the areas of environmental modeling and system analysis topics in groundwater, surface water and engineered system environments. He has published over three hundred technical publications in this specialization area both in technical journals and conferences. He has received numerous awards throughout his career from national and international organizations, and private and governmental agencies. In 2011 he was also recognized by AIH as the recipient of the AIH Founders Award. During his time with AIH, which spans several decades, Mustafa has been elected to serve as the Vice President for International Affairs for several terms. Mustafa received his BS (1967) degree in Civil Engineering from Middle East Technical University, Ankara, Turkey and his MS (1969) and PhD (1971) degrees are from School of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, Georgia. Mustafa is a Professional Engineer certified in the State of Georgia, USA and he is also a Professional Hydrologist certified with AIH.

Having served as a member of the Executive Committee in the past, I know what a difficult task and time consuming commitment it is to be an Executive Committee member of this organization. However, I also recognize that the difficult times for AIH are now in its past due to dedicated efforts of the past Presidents of this institution. Given this background, although at first I was still somewhat overwhelmed by the recognition for the Presidential office, I do believe I can fulfill its duties with drive, determination, and enthusiasm given the current

healthy state of the institute. I am a long time member of this organization. During this time I have seen many obstacles to the growth of this organization. From time to time these obstacles resulted in our membership to drop due to retirements and dissatisfaction with the value this organization brings to ones profession. As your President I will strive to change the way our existing membership perceives the long term value of the organization in their professional life, and I will strive to make it an attractive institution for the young hydrologists and hydrologic technicians to join as well as the old to stay and be active in the organization. I should emphasize that this is definitely possible since AIH is the only organizations which certifies hydrologists, hydrogeologists and surface water professional under the same umbrella, both nationally and internationally. This organization was founded on the principles of ethical hydrologic practice and the promotion of education and science in the field of hydrology. I will choose to focus my energy on both the education and professional development components that are represented within our umbrella of activities. In that regard, given my experience with the international activities of the institute in the past I will work diligently to expand the international component of this institution. This will include promotion of international membership and international collaborative scientific exchanges and work. I believe this will help our organization grow and provide value to our membership that it seeks.

Tom Suro - General Secretary



Thomas Suro is a Hydrologist (and Engineer) with the US Geological Survey (USGS) in New Jersey. He has over 20 years of experience working on a wide variety of projects mostly in the areas of surface water hydrology and hydraulics. He worked at the USGS office in Troy, New York for many years where he became the Assistant Chief of the Hydraulic Surveillance and Investigations section and the Project Chief for the statewide Flood Investigations project before recently transferring to the USGS office in New Jersey. Tom is a certified Professional Hydrologist (PH) and a Certified Flood Plain Manager (CFM).

He is currently working on a few different projects which include preparing a report to summarize the flooding from Hurricane Irene along the Eastern United States in 2011 and working with FEMA to document the coastal flooding from Hurricane Sandy that made landfall along the New Jersey coast in late October 2012. He is an active member of the Delaware River Basin Commission's Flood Advisory Committee and has worked on many different projects during his career. Some of his work includes working on flood warning projects, streamflow statistics and modeling, computing many direct and indirect flood measurements of streamflow as well as working on a salt-water intrusion modeling project on the Hudson River and collecting water quality data as part of the National data collection efforts of the USGS National Stream Quality Assessment Network program.

I feel that the American Institute of Hydrology (AIH) is a much needed organization to protect and promote hydrology as a science and a career. The understanding of hydrology, hydraulics and water resources management are critical areas of science and engineering that help to protect our communities and environment. I have worked in the field of hydrology with the USGS for over 20 years and I have seen the importance of understanding the hydrology of an area or region first hand. I would like to help the institute continue its support of hydrology by serving in the Executive office of General Secretary.

John W. Balay - Vice President of Institute Affairs



John W. Balay is the Manager of Planning and Operations at the Susquehanna River Basin Commission, a federal-interstate compact commission charged with managing the water resources of the Susquehanna basin, headquartered in Harrisburg, Pennsylvania. In this capacity, he is responsible for overseeing a variety of water resources planning and management initiatives including flood coordination & mapping, drought monitoring and coordination, hydrologic modeling, consumptive use mitigation, water availability studies, and instream flow protection. Prior to joining the Commission in 2007, Mr. Balay worked for KCI Technologies, Inc., a private engineering consulting firm based in Hunt Valley, Maryland. At KCI, he conducted a variety of water resource investigations with a specialized focus on fluvial geomorphic assessments, hydrologic and hydraulic modeling, and natural channel design and construction projects.

Mr. Balay graduated from Elizabethtown College in 1999 with a B.S. degree in Environmental Science and received his M.S. degree in Geoenvironmental Science from Shippensburg University in 2005. He is currently working toward completion of a M.S. degree in Water Resources and Environmental Engineering from Villanova University. Mr. Balay has been a certified Professional Hydrologist with the American Institute of Hydrology since 2010 and certified as an Engineer In Training by the Commonwealth of Pennsylvania since June 2012.

Mr. Balay is honored and excited to have the opportunity to serve on the Executive Committee for the American Institute of Hydrology as Vice President for Institute Development. In this role, he intends to work towards increasing the Institute's visibility and recognition among water resource organizations and professionals. Mr. Balay is also interested in exploring mechanisms for having state registration boards recognize certification of Professional Hydrologists and incentivizing hydrology professionals to pursue and attain certification.

Ed A. Baquerizo - Vice President for International Affairs



Mr. Baquerizo has more than 25 years of diverse professional experience as an Environmental Manager and Hydrogeologist, with key roles on important projects for government agencies and private sector clients. He is employed by WorleyParsons, a global engineering and environmental company with offices in more than 40 countries. Mr. Baquerizo serves as Operations Manager for the Infrastructure and Environment Division of the Sacramento, California office, and also serves as global lead for the company's Waste Management Practice. In 2010-2011, Mr. Baquerizo served as Lead Expert Witness for a high-profile legal case in Australia related to the migration of landfill gas (methane) from two municipal solid waste landfills to a nearby housing development. He led a comprehensive evaluation of site conditions and past operating practices, and the case was successfully settled in early 2012. Mr. Baquerizo has also been responsible for the design and implementation of numerous site characterizations, Phase I and Phase II hydrogeological investigations, remediation feasibility studies, long-term environmental monitoring programs, regulatory compliance and due diligence audits, and large-scale industrial facility and military base closures.

Mr. Baquerizo is certified as a Professional Ground Water Hydrologist through the American Institute of Hydrology. He earned a Master of Science degree in Water Resources from the University of Wyoming in Laramie, and a Bachelor of Science degree in Biological Sciences (environmental emphasis) from the University of California, at Irvine.

I know that serving as Vice President of International Affairs will be an exciting challenge, and hope that the opportunities that I have enjoyed working for international companies and traveling extensively throughout six continents will enable me to promote the AIH as an important technical resource for earth scientists worldwide.

Kurt Hollman - Vice President for Communication



Kurt Hollman is a Hydrologist (and geologist) with the Missouri Water Resources Center in Rolla, Missouri. He has over 24 years of experience working on a wide variety of projects mostly in the areas of groundwater hydrology and environmental geology. He worked at the Missouri Geological Survey office in Rolla, Missouri for 15 years conducting groundwater investigations at Missouri's hazardous material sites. Kurt is a registered geologist (RG) and has formerly held drilling and blasting licenses.

He is currently working on a few different projects which include expanding the real-time groundwater monitoring network in Missouri, constructing groundwater models for the boot-heel and southwest Missouri, maintaining the Missouri Major Water Users Database as well as developing a series of structural contour maps for important water producing bedrock formations.

The American Institute of Hydrology (AIH) is becoming the industry standard for hydrologist registration. In an era of diminishing water resources and competing water interests, it is necessary to maintain a pool of well qualified scientist and engineers to protect and manage our water resources. I have been working with groundwater issues for over 24 years in both private industry and in state service. I would like to help the institute continue its mission by serving in the office of vice president of communications.

Distinguished Life Membership Criteria Developed



The Distinguish or Honorary member has been a long-standing category in the AIH Bylaws. The criteria below were recently developed by the current, past, and incoming Presidents of the Institute to begin populating this important membership category.

Process and Criteria for Selection:

Any member who has been recommended by another AIH member or the Executive Committee, and in the opinion of the Advisory Board has made outstanding contributions to the field of hydrology and has made substantial contributions to the organization through Officer and committee participation, may be elected Distinguished Life Member by majority vote of members of the Advisory Board with final approval by the Executive Committee. Distinguished Life Member status may be revoked by a majority vote of the Advisory Board with approval by the Executive Committee. The number of Distinguished Life Members will not exceed 5% of the total paid memberships and no more than two may be elected annually.

The following criteria will be used to guide the recommendation and selection of Distinguished Life Members. Nominees shall not be expected to fit all criteria; any combination of the following accomplishments may be appropriate for Distinguished Life Member consideration:

1. Significant contributions to the AIH organization which include but is not limited to: serving in elected or appointed offices, participation and/or leadership on committees, organization of National and State Chapter conferences, the establishment of new programs within the AIH, and promotion of the organization;
2. Significant contributions to the profession which includes but is not limited to: conference presentations, publications, research endeavors, instruction, and technological innovation;
3. Outstanding achievement in the profession evidenced by: honors and awards received, recognition in the professional literature, and/or educational accomplishments; and
4. Notable leadership in the profession including: positions held, career growth and development, professional association participation at the local and national level.

Benefits offered to Distinguished Life Membership

1. Distinguished Life Members shall not be required to pay dues and shall serve as an Advisory Board member;
2. An official letter of recognition at the time of appointment will be awarded by the President of the AIH and will be posted on the Awards page of the AIH website;
3. All AIH products and services will be offered at member prices;
4. Members will be recognized in the annual AIH Registry; and
5. Members remain eligible for other AIH awards.