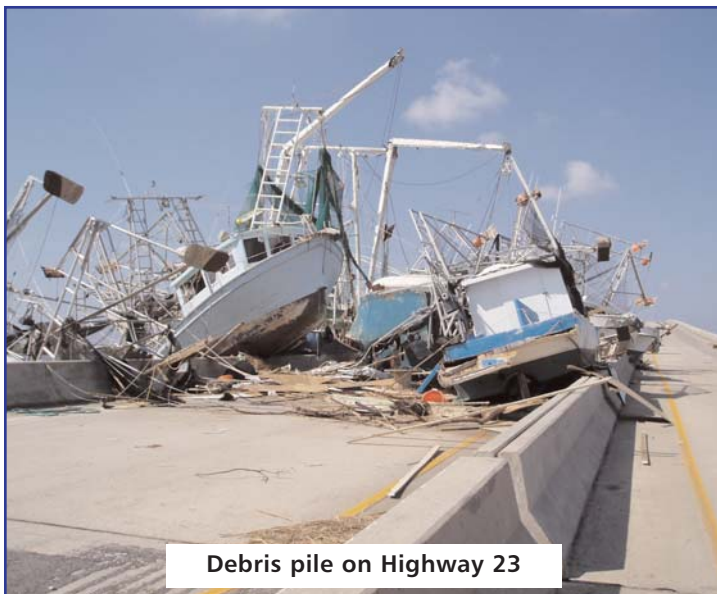

BULLETIN

Fall 2005

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

Volume 23, Issue 3

USGS-UMR Natural Hazard Mitigation Institute Research Team Returns from Gulf Region



Debris pile on Highway 23

'Unbelievable!' is the word that best describes the devastation that our team of U.S. Geological Survey (USGS) and University of Missouri - Rolla (UMR) scientists collecting perishable engineering data witnessed during the recent deployment to the hurricane Katrina stricken area of New Orleans and southern Louisiana. Pictures, videos, and words cannot accurately portray what can be seen in person. In New Orleans, our team collected data from the three neighborhoods that were affected by the levee failures. These areas were completely devastated -- houses near the levee failures were smashed open by the force of water that scoured large pot holes at the base of the levees. Furniture, cars, boats, hot tubs, lawn mowers, motorcycles, and any other personnel item you can think of were sucked from houses, garages, and yards and were pushed through the flood ravaged area like plastic toys in a bath tub.

There were literally hundreds of piles of lumber, cars, and furniture that collected against the more rugged structures in the area. However, before debris accumulated and was deposited, it inflicted serious damage on electric utility lines, less well constructed homes, vehicles, and roadways. Wooden power poles with a thickness of more than 9 inches were snapped in half like they were

nothing more than pencils; boats punched through and hung out of first floor walls of flood ravaged homes; and homes were washed off their foundations and onto parked cars. Homes that did not receive the impact of the torrent of water and debris were flooded in many cases all the way to the roof line. The stench of dead animals and possibly dead humans was always in the air. While most all the structurally sound buildings were inspected for survivors and victims,

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Welcome Dr. Stephan J. Nix Vice President of Academic Affairs

The Executive Committee welcomes **Dr. Stephan Nix** as the newly appointed **Vice President of Academic Affairs**. Dr. Nix is the Professor and Director at the University of North Florida, Jacksonville, Florida. He has earned his BS, MS and Ph.D. from the University of Florida. He has served on the faculty of Syracuse University, University of Alabama and as Professor and Chair of Civil and Environmental Engineering at Northern Arizona and Florida Atlantic University.

Dr. Nix has authored over 80 publications on urban water resources, environmental systems and computer modeling. He consults on wet weather management with several municipalities and national agencies. He is active in several technical organizations, including AIH. Steve and his wife, Aulaire, have four children; and he enjoys running, bicycling, Florida Gator sports, Civil War history and travel.

Dr. Nix was appointed to the VP office to complete the term of **Dr. Lindell Ormsbee**; and will work to increase student membership, increase the question bank and develop a series of training events to support AIH Recertification.

Editorial Board

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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	\$595	9½ x 7½"
1/2 page	\$349	9½ x 3½" (1 column)
1/2 page	\$349	4½ x 7½" (1 banner)
1/4 page	\$199	4½ x 3½" (1/2 column)
1/8 page	\$125	2¼ x 3½" (1/4 column)

Advertisers agreeing to publish an ad in three consecutive issues will receive FREE publication in the fourth issue.

Emails for the Executive Committee

M. Marino	mamarino@ucdavis.edu
P. Leahy	pleahy@usgs.gov
A. Laenen	alaenen@earthlink.net
S. Nix	snix@unf.edu
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R. Bravo	rbravo@siu.edu
D. Glysson	gglysson@usgs.gov

Email / Web Page Addresses of AIH

AIH Office	AIHydro@aol.com
AIH Web Page	www.aihydro.org
AIH Web Manager	bjesterstudio@aol.com

PRESIDENT'S MESSAGE

As I am approaching the completion of my first year as President of AIH, I want to thank my colleagues in the Executive Committee and Board of Registration, as well as our Executive Director and Editors of our Bulletin and Journal, for their commitment and devotion to the Institute. Furthermore, I wish the entire membership of AIH a happy and joyous Holiday Season.

Our Executive Committee has approved Lindell Ormsbee's resignation as Vice President for Academic Affairs and appointed Stephan Nix to serve in that capacity. We thank Lindell for the many contributions he made to AIH and welcome Stephan to our Executive Committee. Stephan is an expert on watershed management of urban stormwater runoff and the water quality impacts of urban runoff. Currently, he serves as Director of the Division of Engineering at the University of North Florida in Jacksonville.

AIH's program to recertify all professional members was revised and reissued this past September. Every five years, on the anniversary of each member's initial certification, one is required to submit an affidavit stating that one has met the requirements to support continued certification. Recertification instructions can be found in our web site (<http://www.aihydro.org>) under **AIH Forms**. Whenever appropriate, AIH will remind each member to submit a completed recertification form by the end of the year one is required to be recertified.

Under the able leadership of Vijay Singh and Jun Xu, we are proceeding with the organization and planning of our **25th Anniversary Meeting**, which will be held in **Baton Rouge, Louisiana**, during **May 21-24, 2006**, highlighted by an international conference. The latter will address interdisciplinary research, education, management, and policy-making from physical, biogeochemical, and socioeconomic perspectives to environmental systems in coastal regions. Discussions will also take place on hydraulic engineering and structures in coastal regions as well as on coastal petroleum and land subsidence. A special feature of the conference include a session to review the past 25 years of AIH and to discuss the direction it should pursue in the future.; and a session on what we know about the hydrologic impact of Hurricane Katrina. Approximately 100 abstracts have been accepted for presentation at the conference. Authors of accepted abstracts will receive instructions for the preparation of full-length camera-ready manuscripts. All acceptable papers will be peer-reviewed and published in book form.

In conjunction with our 25th Anniversary Meeting, we will offer three refresher classes to prepare for our Fundamental, Surface Water, Groundwater Certification Examinations. We will also offer a short course on MTBE and Other Fuel Oxygenates: Characterization and Remediation. We are planning a special Field Trip on the Impact of Hurricane Katrina on the area. Other field trips offered may include visits to the **Atchafalaya River Basin** (Mississippi Diversion), **Mississippi River Delta National Wildlife Refuge** (deltaic development), **Constructed LaBranche Wetlands** (wetland restoration), **Houmas House** (plantation and gardens), and **Alligator Bayou** (swamp tour and wilderness adventure). Also, prizes will be presented for the **Best Student Paper and Best Student Poster**. In addition, the **R. K. Linsley Award**, **C. V. Theis Award**, and **Founders Award** will be presented to deserving colleagues. **Furthermore, a new Water Quality Award will be unveiled at the Meeting.**

I encourage the membership to participate in our 25th Anniversary Meeting and look forward to seeing you in Baton Rouge next May.

Miguel Marino
AIH President

Special Assessment for 2006

In your 2006 Dues Statement, AIH is urging that you consider making a contribution to help AIH through a particularly difficult time financially. The officers and members of the Executive Committee, who have the responsibility of running AIH, have requested that our membership, friends and even retired members consider giving a generous donation to AIH to support the services we currently offer, as well as the projects we hope to begin.

Over the past few years, AIH has lost many members to retirement. In 1984, AIH added more than 300 new members to the ranks of Professional Hydrologists. At no time since 1984 has AIH been able to recruit new members at such a growth rate. During subsequent years, attrition has matched any gains in membership, so that our overall membership base has remained relatively constant.

However, in 2004-2005, the retirement of members of the Class of '84 began. More than 150 members retired or left for other reasons. This significant loss of membership to retirement was unforeseen and caught us by surprise. The result of this attrition equates directly to a decrease in revenues from member dues. In 2005, revenues have not been able to cover all of the operating expenses. Recently, AIH has been hampered financially because of the poorly attended annual meetings.

AIH is doing a number of things that, over time, will improve our financial conditions.

1. Headquarters will run all annual meetings as a revenue center, with a written plan that specifies the revenue goals and creates a committee, where each member has a written assignment and goal to contribute to the financial success of the meeting.
2. AIH is developing a certification program for Hydrologic Technicians. For the first few years, this effort will require financial support. However, after a program is developed, it should be an excellent revenue center.
3. AIH is developing a Corporate, Institutional and Affiliate membership program to recognize the certification program as a benefit to the employee and employer engaged in hydrologic and hydrogeologic work.
4. Recruiting new members has been a slow process since 1984. AIH needs to develop new and improved benefits to the membership and prospective members. We must attract hydrologists to AIH by advertising and marketing the AIH mission. Prospective candidates must be offered meaningful benefits and rewards for subjecting themselves to the rigors of the application and examination processes. We want to encourage you, our best examples of why hydrologists should join AIH, to become concerned with our growth and join the effort to increase the membership. In addition to your donation, please encourage your colleagues to join AIH. You may send the names of possible candidates to us and we will gladly work with them to join AIH.

These are the main projects that we are working to develop. These are the projects that need your financial support in the coming years. AIH is an organization that offers added value to the careers of its members. AIH needs your help in supporting these programs to continue to its growth and overcome the attrition.

Contribute Generously to the Growth of AIH!

AIH Unveils a Hydrologic Technician Program

Since its inception in the early 1980's, certification and registration of hydrologists and hydrogeologists has been the mission of AIH. During this time, there has been a growing need in the hydrologic community for the certification of hydrologic technicians. Government agencies, regional and state agencies and private consultants rely on hydrologic technicians to set up data collection networks and to collect and analyze reliable data. There is an obvious need for standardization and quality control of collection, reduction and analysis of these data, so that the Professional Hydrologist and the public can use the data with the confidence and a level of assurance that it is reliable and trustworthy.

AIH is in agreement with the hydrologic community and has committed to take the lead in developing a Hydrologic Technician certification program. This is clearly within the mission of AIH. Moreover, it is clearly a function that AIH should administer and provide leadership.

AIH has been discussing the integration of a certification program for Hydrologic Technicians for many years. Recently, the opportunity to open discussions to evaluate Hydrologic Technicians certification emerged. President Marino directed Emmitt Witt, Antonius Laenen, and Jerry Seaburn to develop a plan to integrate the Hydrologic Technician into our organization and to develop a certification program for Hydrologic Technicians.

With Emmitt Witt taking the lead, the committee has put together a working committee of professionals from USGS and the private sector to begin the process. Structure and procedures can be modeled after the AIH professional certification program. The proposed structure for certification would follow the three categories of Surface Water, Ground Water and Water Quality and consist of three levels of achievement.

The development of the certification program would include specifying qualifications, outlining exam items, building a question data bank and providing for administration and education. Experience with AIH's professional certification program has shown that building a bank of questions is the biggest hurdle to overcome. The committee has taken on the assignment to begin to write questions and submit them for review and scoring. When a sufficient number of questions are accumulated, the Hydrologic Technician Certification Program will move forward.

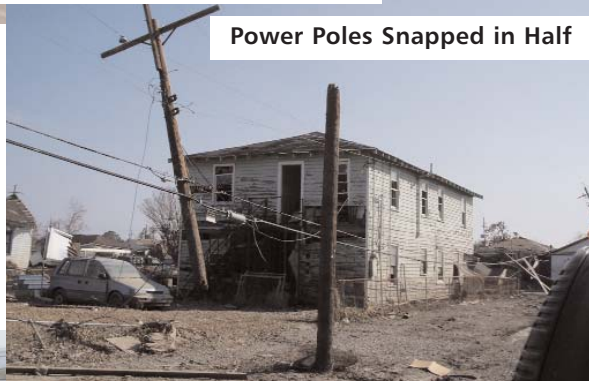
Anyone with an interest in writing questions is encouraged to contact Herb Garn at HSGarn@USGS.gov or AIH Headquarters at AIHydro@aol.com for instructions and guidance for writing acceptable questions. We need your help to get the program developed to a critical mass, where we can then invite Hydrologic Technicians to become certified.

there were many unsound structures and debris piles that could not be searched. As we walked the areas in pursuit of our data, it was never far from our minds that someone or something could be dead among the debris.

While the damage in New Orleans was primarily caused by the levee failure, further south in Louisiana's peninsula, the eye of the hurricane struck land with a devastation that can only be compared to the detonation of a nuclear weapon. On our drive down the peninsula the first indication that a hurricane hit was the scattered debris and large mats of marsh grass blown into huge piles along the edges of the highway. The next major indication was a newer two-story Cape Cod style home in the middle of highway 23. You could have walked up the stairs and knocked on the door, but there it sat with broken windows and torn siding bearing the eerie fluorescent orange 'X' that denoted it had been searched by the rescue and recovery crews. Further on our trek south the entire towns of Port Sulphur and Empire were completely flattened. Nothing more than broken lumber, twisted house wiring, overturned vehicles, and bare concrete slabs remained. Oil from storage tanks, gas stations, homes, boats, and businesses caused huge slicks on the flood



House Marked by Search & Recovery Crews



Power Poles Snapped in Half



Overturned Boats in Empire Harbor

water surface and left heavy three-foot thick deposits of oil and petroleum base wax on the levees for miles. Fishing trawlers ranging in size from 30 to 100 feet sat on top of highway bridges and levees. Cemeteries were nearly completely destroyed --above ground tombs had their contents strewn about after the water levels and currents floated coffins into school playgrounds and neighborhood streets and lay there upside down, often with their contents missing. South of Empire the harbor for the coastal fishing fleet was totally destroyed. Fifty-plus foot fishing boats lay overturned in the harbor, on the marshes, and piled up against the highway 23 overpass. Two large fishing trawlers measuring over 100 feet and constructed of steel were blown from the shipping channel and came to rest side-by-side on the concrete medial barrier of the overpass. The site was beyond belief. Both ships looked as if they were built there as a monument to the industry.

Uprooted Coffin in Empire Cemetery



Fishing Trawlers Resting on Highway 23



The sites and smells of this deployment will be remembered by our team for a lifetime. For us this event reinforced the obvious, the destructive force of natural events are far more a threat to society than man himself, and the need to understand the impact of these events on our engineering structures and landscape is critical to the survival of the human race. The USGS-UMR team collected many pictures, sediment samples, and other geotechnical and structural engineering data as a result

of this investigation. These data are currently being compiled, reviewed, and interpreted. Within the next few months the result of our effort will be available for all to see at the USGS Mid-Continent Geographic Science Center website <http://mcmcweb.er.usgs.gov/mcgsc> .

Emitt C.Witt III, PH
Director, USGS Mid-Continent Geographic Science Center
General Secretary, American Institute of Hydrology
Environmental Affairs Committee, Society of American Military Engineers



Collecting Data



American Institute of Hydrology 25th Anniversary Meeting

& International Conference

on

“Challenges In Coastal Hydrology and Water Quality”

May 21 - 24, 2006

Baton Rouge, Louisiana, USA

CONFERENCE INTENT

More than half the world's population lives within a distance of 100 km from the coastline, and this number is expected to increase by 25% in the coming two decades. The population growth and urbanization have largely altered the natural pathways of coastal waters that are vital to the coastal environment. As most of the water on land surface enters into the oceans, man's activities in both coastal and inland watersheds have led to increased loading of sediment, toxic substances, nutrients and pathogens with subsequent eutrophication, algal blooms, and hypoxia. Climate change has led to the rise in sea level with loss of coastal wetlands and to increased saltwater intrusion. The recent tsunami in the Indian Ocean has again alarmed man's vulnerability to nature. World's coasts are facing increasingly serious environmental challenges, while it is not clear how to fully measure the complexities of coastal systems.

This conference aims to provide an international forum for the dissemination and exchange of information in coastal hydrology, hydraulics and water quality. The conference will stimulate interdisciplinary research, education, management, and policy making from physical, biogeochemical, and socioeconomic perspectives related to complex environmental systems in coastal regions. Discussions will also take place on hydraulic engineering and structures in coastal areas, which are frequently densely populated or sites of major industrial development. The topic of coastal petroleum and land subsidence will also be addressed.

CONFERENCE VENUE

The conference will be held at:

Holiday Inn Select & Executive Center
4728 Constitution Avenue
Baton Rouge, Louisiana

The conference rate will be \$81 plus tax (USD) per night, for single or double occupancy. Rooms must be reserved before **April 19, 2006** by directly calling:

800-678-4065 or 225-925-2244
Online at www.holiday-inn.com (Code C94)

**Please indicate that you are participating in the AIH Conference,
Block Code C94.**

WHO SHOULD ATTEND

This conference is recommended for scientists and engineers in all fields of the hydrologic sciences, government officials with environmental responsibilities, land-use planners, students of

hydrology, hydrologists wishing to become registered, and all other persons dealing with water-related issues. This conference will provide a forum for discussion and exchange of information on a broad spectrum of areas in hydrology, hydrogeology, water-quality, water resources, planning and management, aquatic and marine biology, and climatology.

TECHNICAL PROGRAM

- Plenary Opening Session, Central Theme: The Mighty Mississippi and Coastal Louisiana - Past, Present and Future
- Hydrologic and Coastal Processes
- Hydrological Pathway from Terrestrial to Coastal Ecosystems
- Large River Engineering and Management
- Fluvial Processes and Sedimentation
- Flood Control and Disaster Assessment
- Surface and Ground Water Interaction in Coastal Regions
- Fresh Water Resources and Saltwater Intrusion
- Eutrophication and Hypoxia in Coastal Waters
- Coastal Erosion
- Coastal Wetlands and Floodplains
- Coastal Wetland Restoration
- GIS Applications in Coastal Hydrology Studies
- Extreme Weathers
- Socioeconomic Impacts of Extreme Weathers
- Potential Global Change Effects on Coastal Water Resources
- Coastal Water Quality and TMDLs

EXHIBITORS

Exhibit booths will be located in conjunction with poster presentations and break refreshments. This will guarantee direct access to the professionals who are actively employed in the field of hydrology. For information on displaying your product or service at this conference, please contact the AIH office directly at **770-384-1634** or send an email to AIHydro@aol.com.

! Important Notice about Venue !

All members are asked to book their hotel reservations for our 2006 Conference in Baton Rouge, Louisiana, directly through the hotel, Holiday Inn Select Executive Center, and avoid any internet travel providers. AIH will not be given credit towards its master account commitment should you book your room outside of the hotel. This is part of the way that AIH can contain its expenses for conferences. Make sure you identify yourself as a participant of the American Institute of Hydrology's conference. Thanks for your cooperation.

Continued on Page 6

PROPOSED FIELD TRIPS

- Katrina Impacts on New Orleans
- Atchafalaya River Basin (Mississippi Diversion)
- Mississippi River Delta National Wildlife Refuge (deltaic development)
- Constructed LaBranche Wetlands (wetland restoration)
- Houmas House - Plantation & Gardens
- Alligator Bayou - Swamp Tour & Wilderness Adventure

SHORT COURSE & REFRESHER CLASSES

• Methyl-Tert-Butyl Ether (MTBE) & Other Fuel Oxygenates: Characterization and Remediation

Ground Water contamination from fossil-derived fuels is widespread throughout the United States. While there is a wealth of scientific information and conventional technology available for treating fuel hydrocarbons like benzene, toluene, ethyl benzene, and xylenes, substantially less is known about fuel constituents such as methyl-tert-butyl ether (MTBE) and other fuel oxygenates (OFO's) that are often blended in gasoline to increase octane ratings and reduce harmful, air-polluting combustion by-products.

Solutions via Applied Science Associates has designed this full-day training course to enhance your professional awareness of all technical issues related to acute impacts of MTBE and OFO's. A balanced program offering both theoretical and tested field based examples covering site characterization, remediation and technology implementation. This course has been approved by several state boards of engineering and geology in fulfillment of eight continuing education units (CEUs). You will receive detailed exposure to tested advanced strategies for employing specific methods, processes and technologies for the assessment and remediation of acute environmental impacts stemming from the release of oxygenated motor fuels. The course will be 8 hours on Thursday, May 25, 2006 and cost \$350. If you are interested in this course, please let us know by contacting AIH at the numbers listed below or send an email to aihydro@aol.com or svasa@globalhydroserv.com, or contact J.E. Haas at (631) 673-9544.

For the first time, AIH will offer refresher classes to prepare candidates to take AIH examinations. Classes for the Fundamentals and Principals and Practices Examinations will be held as part of the 25th Anniversary Annual Meeting. Classes will cost \$100 USD each and will be held on Sunday, prior to the opening of the Annual Meeting.

Also, AIH will administer examinations to pre-approved candidates on Thursday, following the close of the Annual Meeting. No other testing venue will be available for this test. Anyone planning to take an AIH certification examination in May 2006, must plan to take the test in Baton Rouge on May 25, 2006.

CONFERENCE PLANNING COMMITTEE

- Vijay P. Singh, Louisiana State University
- Y. Jun Xu, Louisiana State University
- Pinki Diwan, LSU Foundation
- Toni Smiley, BRACVB
- Pat Leahy, USGS
- Miguel Marino, UC, Davis
- Larry Rouse, Louisiana State University
- Daniel Thomas, Louisiana State University
- Clinton Willson, Louisiana State University

Advisory Committee:

- Dr. L. Douglas James
- Dr. Alex Zaporozec
- Dr. Vijay Singh
- Dr. Ken Brooks
- Dr. Joe Rosenshein
- Dr. Gerald Seaburn

Organized with the cooperation of:



Notice of Change for the May 2006 Examination & Review Classes

The AIH Executive Committee has approved a plan to conduct examinations for candidates seeking membership in AIH at our 25-year Annual Meeting in Baton Rouge, Louisiana. As part of this plan, the scheduled examination for May 2006 will be moved to Thursday, May 25, 2006. This is the only location that the examinations will be offered in May 2006. Candidates can attend a review class before the annual meeting and then take the exam after the meeting.

This plan is to offer review classes for each of our tests: The Fundamentals Exam and the Surface Water and Ground Water exams. These all day classes will be offered on Sunday, May 21, 2006, to review the examination process and discuss example test questions that illustrate AIH's examination process. The three classes will be offered to anyone that is either scheduled to take an examination or is planning to take the examination in the near future. You are not required to be scheduled for examination to attend these classes. A water quality test will also be given on May 25th. Anyone planning on taking the water quality test can take either the SW or GW review class, where sufficient water quality material will be covered.

The cost of each class is \$100. The student will receive an all day review of the materials in your exam area, a study guide that you can take away and additional problem examples to help you prepare for your examination.

You may sign up for these classes by completing the registration form included here. If you are approved to take the exam on Thursday, May 25, 2006, you must complete AIH Form 005A-B, Application for Examination, that can be downloaded at www.aihydro.org/examinations.htm. If you are not approved to take the exam, you must complete an Application for Membership (download at www.aihydro.org/examinations.htm) and be approved by the Board of Registration, before submitting the Request for Examination. Call AIH if you any questions.

Remember you may attend the refresher classes, whether or not you are sitting for the exams.

Registration Form



**American Institute of Hydrology
2006 Annual Meeting &
International Conference
"Challenges in Coastal Hydrology
and Water Quality"
May 21-24, 2006
Baton Rouge, Louisiana**

PLEASE CHECK ONE:

- AIH Member Non-Member Conference Participant

FULL REGISTRATION:

Includes admission to all conference sessions, final program, Awards Dinner, Proceedings copy, breaks, planned luncheons and receptions.

AIH Members & Participants	\$350 (by 3/15/06)	\$450 (after 3/15/06)	\$ _____
Non-Members	\$395 (by 3/15/06)	\$495 (after 3/15/06)	\$ _____

ONE DAY REGISTRATION:

Includes admission to all conference sessions, final program and breaks on the day for which the participant is registered.

___ Sunday	___ Monday	___ Tuesday	___ Wednesday
AIH Members & Participants	\$150 (by 3/15/06)	\$175 (after 3/15/06)	\$ _____
Non-Members	\$160 (by 3/15/06)	\$185 (after 3/15/06)	\$ _____

STUDENT REGISTRATION:

Includes admission to all conference sessions, final program, breaks and receptions.

AIH Members & Participants	\$25 (by 3/15/06)	\$30 (after 3/15/06)	\$ _____
Non-Members	\$25 (by 3/15/06)	\$30 (after 3/15/06)	\$ _____

ACCOMPANYING PARTNER:

Includes admissions to breaks and Awards Dinner (Does not include admission to the conference sessions.)

Name: _____

AIH Members & Participants	\$35 (by 3/15/06)	\$40 (after 3/15/06)	\$ _____
Non-Members	\$40 (by 3/15/06)	\$45 (after 3/15/06)	\$ _____

MEALS FOR ONE DAY, STUDENT, PARTNER/SPOUSE AND GUESTS:

Monday Luncheon	\$25 (by 3/15/06)	\$30 (after 3/15/06)	\$ _____
Monday Awards Dinner	\$40 (by 3/15/06)	\$50 (after 3/15/06)	\$ _____
Tuesday Luncheon	\$25 (by 3/15/06)	\$30 (after 3/15/06)	\$ _____
Wednesday Luncheon	\$25 (by 3/15/06)	\$30 (after 3/15/06)	\$ _____

PROCEEDINGS:

Additional Copies	\$60	\$ _____
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TOTAL AMOUNT DUE:

\$ _____

HOTEL DURING MEETING:

CANCELLATION POLICY:

- Before March 15, 2006 - Registration Fee, less \$50.00
- Between March 15, 2006 and April 15, 2006 - 50% of Registration Fee
- After April 15, 2006 - No refund allowed

Cancellation must be received in writing at AIH Headquarters by dates

★ SPECIAL OFFER TO NON-MEMBERS ★

AIH will waive your Membership Application Fee (a \$75 Savings!) For Non-members attending with a Full Registration. Your application must be received at AIH within 60 days from date of the conference. Applications available at Conference Registration desk or Online at www.aihydro.org.

REGISTRATION INFORMATION

Name: _____

Title: _____

Company: _____

Address: _____

City: _____

State _____ Zip: _____

Country: _____

Phone: _____

Fax: _____

Email: _____

Please send information on Short Courses to me? ___ YES ___ NO

PAYMENT METHOD

Full payment must accompany completed registration form.

Check:

Payment made by check (Only U. S. Dollars, drawn on a U. S. Bank) payable to AIH Conference.

Check No: _____

Purchase Order No: (if applicable)

Credit Card: (check one)

- ___ Visa ___ MasterCard
___ Amex ___ Diner's

Card No:

Expiration Date:

Cardholder Signature:

Date:

Please return this completed form with full payment to:



AIH Conference Headquarters
300 Village Green Cir., Suite 201
Smyrna, GA 30080, USA
Tel: (770) 384-1634
Fax: (770) 438-6172
Email: AIHydro@aol.com

Organized with the cooperation of:



American Institute of Hydrology 2006 Annual Conference

SHORT COURSES & REVIEW CLASSES

May 21, 2006

9:00 AM TO 5:00 PM – HOLIDAY INN SELECT
AIH FUNDAMENTALS REVIEW CLASS
Instructor: Dr. Peter Black
Cost: All Participants \$100

In the Fundamentals Refresher Course, participants will review the type of testing, and will practice working example questions. There will be a study guide for each student. The instructors will explain the structure and organization of the test. They will also answer questions and work with the participant to complete example questions.

The Fundamentals of Hydrology Examination tests the understanding of basic principles – going beyond empirical formulas used in the analysis of complicated situations of surface water, ground water and water quality hydrology. The scientific under-pinning is found in the basics of mathematics, physics, chemistry, geology, meteorology, engineering, soil science and other related disciplines. The 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. No references may be brought into the examination room; and three hours are allowed for test completion. Calculators are allowed and recommended. Hand-held or laptop computers are not allowed.

9:00 AM TO 5:00 PM – HOLIDAY INN SELECT
PRINCIPLES AND PRACTICE REVIEW CLASS – SURFACE WATER
Instructors: Dr. Song-Kai Yan
Cost: All Participants \$100.00

In the Surface Water Refresher Course, participants will review the type of testing, and will practice working example questions. There will be a study guide for each student. The instructors will explain the structure and organization of the test. They will also answer questions and work with the participant to complete example questions.

It is designed to demonstrate the depth expected of practicing hydrologists in formulating practical solutions. The principles and practice examination is open book examination or approximately 100 questions. References may be brought into the examination, and five hours are allowed for completion. Calculators are allowed and recommended. Hand-held or laptop computers are not allowed.

The Surface Water Examination tests the applicant's ability to sort out meaningful data and apply hydrological 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.

9:00 AM TO 5:00 PM – HOLIDAY INN SELECT
PRINCIPLES AND PRACTICE REVIEW CLASS – GROUND WATER
Instructor: Dr. Peter Rzepecki
Cost: All Participants \$100

In the Ground Water Refresher Course, participants will review the type of testing, and will practice working example questions. There will be a study guide for each student. The instructors will explain the structure and organization of the test. They will also answer questions and work with the participant to complete example questions.

It is designed to demonstrate the depth expected of practicing hydrologists in formulating practical solutions. The principles and practice examination is open book examination or approximately 100 questions. References may be brought into the examination, and five hours are allowed for completion. Calculators are allowed and recommended. Hand-held or laptop computers are not allowed.

The Ground Water Examination tests the applicant's ability to sort out meaningful data and apply 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.

The Ground Water Examination tests the application of scientific principles and empirical information to problems commonly found in hydrology.

May 25, 2006

8:00 AM TO 5:00 PM – HOLIDAY INN SELECT
METHYL-TERT-BUTYL ETHER (MTBE) & OTHER FUEL OXYGENATES: CHARACTERIZATION AND REMEDIATION
Instructors: Joseph Haas, Michael Hyman and Eric Nichols
Cost: All Participants \$350

Ground Water contamination from fossil-derived fuels is widespread throughout the United States. While there is a wealth of scientific information and conventional technology available for treating fuel hydrocarbons like benzene, toluene, ethyl benzene, and xylenes, substantially less is known about fuel constituents such as methyl-tert-butyl ether (MTBE) and other fuel oxygenates (OFO's) that are often blended in gasoline to increase octane ratings and reduce harmful, air-polluting combustion by-products.

Solutions via Applied Science Associates has designed this full-day training course to enhance your professional awareness of all technical issues related to acute impacts of MTBE and OFO's. A balanced program offering both theoretical and tested field based examples covering site characterization, remediation and technology implementation. This course has been approved by several state boards of engineering and geology in fulfillment of eight continuing education units (CEUs). You will receive detailed exposure to tested advanced strategies for employing specific methods, processes and technologies for the assessment and remediation of acute environmental impacts stemming from the release of oxygenated motor fuels.

If you are interested in this course, please let us know by contacting AIH at the numbers listed below or send an email to aihydro@aol.com or svasa@globalhydro.com, or contact J.E. Haas at (631) 673-9544.

If you plan to take the Water Quality Examination, call AIH Headquarters to discuss the testing process. Anyone may register for the Refresher Courses. You do not have to be approved to take the examination to be able to participate in the Refresher Courses.

Registration Information

Name: _____ Title: _____

Company: _____ Are you planning on taking the AIH exam on Thursday, May 25? Y N

Address: _____ City: _____ State: _____ Zip: _____ Country: _____

Phone: _____ Fax: _____ Email: _____

Please register me for the short course(s) checked above. My \$ _____ registration fee is enclosed.

Check: Payment made payable to AIH Conference (Only U. S. Dollars, drawn on U. S. Bank): Check No: _____

Credit Card: (check one) ___ Visa ___ MasterCard ___ Amex ___ Diner's

Card No: _____ V-Code: _____ Expiration Date: _____

Card Holder Signature: _____ Date: _____

Full payment must accompany registration form. Please return this completed form with full payment to:
AIH Conference Headquarters
300 Village Green Circle, Suite 201 Smyrna, GA 30080, USA • ph: (770)384-1634 • fx: (770)438-6172 • email: AIHydro@aol.com

Meetings, Conferences and Courses

Association of Dam Safety Officials

Jan 31 - February 2, 2006
Las Vegas, Nevada

Session Topics and Presenters: West Regional Technical Seminar on "Hydraulic Analysis for Spillways" Instructors: David L. Moore, P.E., Burgess & Niple, Inc.; Dr. David Ford, P.E., and Dr. Johannes J. Devries, P.E., David Ford Consulting Engineers Purpose: To provide a general understanding of the full range of spillway types available and the hydraulic analyzes necessary to design or evaluate the hydraulic capacity and adequacy of a spillway. This course is intended as an introductory course for persons who may have minimal to moderate experience with the design of spillways and are concerned with the safety of existing or proposed dam structures.

Registration Fee: \$250 - \$300.

Accommodations: TBA

April 5-7, 2006
Indianapolis, Indiana

Session Topics and Presenters: Midwest Regional Technical Seminar on "Safety Evaluation of Existing Dams" Instructors: Chris J. Veeseart, Douglas D. Boyer, and Jay N. Stateler, US Bureau of Reclamation. This seminar emphasizes the importance of periodic evaluation of the safety of existing dams, and provides specific information and guidance on the visual and instrumented monitoring of the various types of dams and their appurtenant structures. Failure modes analysis is stressed as the basis for an effective and efficient monitoring program. At the conclusion of the course, attendees will have a thorough understanding of the procedures and techniques essential to carrying out meaningful dam safety evaluations and monitoring, and should be able to apply these principles to improve their own effectiveness and the effectiveness of their dam safety programs. A comprehensive seminar notebook will be provided which will serve as a valuable dam safety reference.

Registration Fee: \$250 - \$300

Accommodations: TBA

July & Oct 2006
TBA

Session Topics and Presenters: Advanced Tech Seminar on Dam Failure Analysis

September 10-14
Boston, Massachusetts

Session Topics and Presenters: Dam Safety 2006: ASDSO's Annual Conference Session Topics and Presenters: TBA. Over 700 attendees expected.

Registration Fee: TBA Exhibits & Sponsorships: TBA

Accommodations: Seaport Hotel and Convention Center. \$179 plus tax/night.

International Symposium on Hydrology and Management of Forested Wetlands

April 8-20, 2006
New Bern, North Carolina, USA

For more information contact:

Sharon McKnight at McKnight@ASAE.org

AIH 25th Anniversary Meeting & International Conference "Challenges in Coastal Hydrology & Water Quality"

May 21-24, 2006
Baton Rouge, Louisiana

An international forum for information exchange and discussion on all aspects of hydrology, hydrometeorology, hydraulics and water quality issues pertinent to coastal processes and environment.

Call for Katrina Papers: To participate in this special occasion and present a paper or poster, please submit a 250-word Abstract of your paper to AIH Headquarters by January 1, 2006. Speakers will be notified of their acceptance by January 30, 2006.

For additional information contact:

American Institute of Hydrology

300 Village Green Circle, Suite 201

Smyrna, Georgia 30080

PH: 77-384-1634 FX: 770-438-6172

EMAIL: AIHydro@aol.com WEBSITE: www.aihydro.org

Corporate / Institutional / Affiliate Membership Program

AIH has developed a three-point program for Corporate, Institutional and Affiliate organizations as employers of Certified Professional Hydrologists and Hydrogeologists.

This program is designed to improve client services and to help define a career path for the employee. There are three elements to the program, each can be implemented separately or combined as a coordinated plan. The elements are:

1. **Hire a Professional** - AIH recommends that employers establish the AIH certification as a factor to evaluate new hires.
2. **Establish a Career Path for Staff** - this includes:
 - Encourage hydrologists, engineers, geologists, and other professionals working in water resources to become certified professionals
 - Use the AIH Certification Program to help develop career plans for the employee's annual performance review
3. **Become a Corporate, Institutional or Affiliate Member** - there are numerous benefits and cost savings to make this option attractive to all that apply.

For more information, call AIH at 1-800-4AIH
or email us at aihydro@aol.com.

Job Postings

AIH will post job opportunities for hydrologists nationwide on our website.. For more information and ad rates please contact AIH Headquarters at Aihydro@aol.com or call **770-384-1634**.

Candidates looking for positions should frequently check our website for new opportunities.

www.aihydro.org

OUTREACH NOTICE - PLUMAS NATIONAL FOREST Quincy, California

The Plumas National Forest, Supervisor's Office, has the following vacancies currently open. These positions are permanent, full-time employment. Positions are being advertised interdisciplinary in professional series:

- Supervisory Biologist (0401) 1 position
- Supervisory Hydrologist (1315)
- Ecosystems Staff Officer, Interdisciplinary

If you have any further questions about these positions or the application process, please call one of the following Mt. Hough Ranger District personnel:

- Jim Pena, Forest Supervisor 530-283-7810 jpena@fs.fed.us
- Rob MacWhorter, Deputy Forest Supervisor 530-283-7810 rmacwhorter@fs.fed.us

Speakers Bureau

Following the disaster of Hurricanes Katrina, Rita and Wilma, AIH received several phone calls from news agencies - CNN and NPR - and several of the print media. The reporters were mainly interested in talking to experts on or off camera to gather information and become more knowledgeable of the causes and effects of these hurricanes. They also wanted to have access to experts living in the area to hopefully help them develop a story.

AIH wants to be able to respond to these requests. We want to be known as the "go to" organization for reporters to contact our experts in these areas.

To respond to this need, AIH has proposed to develop a Speaker's Bureau and solicit volunteers to offer themselves as "Experts" to a variety of groups, from small children to national news agencies. We would offer this service at no charge to the user, but with limited access (temporary password) to the Speaker Bureau Registry and the members in the Speaker's Bureau. AIH would provide access to our experts by using our already existing online Registry. With several modifications, AIH could implement the services without difficulty. Participating members would define their area of expertise and any limitations on the scope of their service.

You will be advised of this program as we develop it further. Your input at any time is welcomed and solicited.

In Memoriam of F. Larry Doyle



Frank "Larry" Doyle, a retired U.S. Geological Survey hydrologist 1960-65, passed away February 26, 2005, in San Antonio, Texas, from complications of leukemia. A professional groundwater hydrologist with an internationally renowned career spanning more than 50 years. Larry was Secretary Treasurer and Chairman of the U.S. Chapter (1980-88) of the International Association of Hydrogeologists (IAH). He played a major role in organizing the 12th IAH Congress in Huntsville, Alabama (1975), the 17th IAH Congress in Tucson, Arizona (1985) and the 22nd International Geological Congress. After serving in the Army and Air Force he attended the University of Texas and received a BS in Geology (1950), a MS from Louisiana State University (1955), and PhD from the University of Illinois (1958).

Larry's areas of interest and expertise were geomorphology, remote sensing, and groundwater protection. He explored for groundwater in Panama and Algeria and for geothermal resources in Nicaragua. He planned geologic and hydrologic research for the high-level waste program while he was at the U.S. Nuclear Regulatory Commission.

Larry began his career with the USGS in 1960 and worked in Arizona and Colorado. He taught at St. Mary's University in San Antonio, State University of New York, and the University of Connecticut in Storrs. Larry had a varied career working for Geological Survey of Alabama, Dames and Moore, Metcalf and Eddy, Senior Hydrologist U.S. Nuclear Regulatory Commission, U.S. Department Interior Office of Project Review, and MITRE Corporation (Brooks AFB). He carried out geologic and hydrologic investigations in Panama, Nicaragua, Algeria, and Spain. When he retired in 1993 he opened an environmental consulting firm in San Antonio (HydroGeology International).

Larry was a registered geologist/hydrologist in California and Texas and a member of the American Geophysical Union, National Groundwater Association, American Institute of Professional Geologists and the American Institute of Hydrology. He was a Senior Fellow of the Geological Society of America, a U.S. Public Health Service Scientist, and a member of the American Association of Petroleum Geologists (50-year pin). He edited two books and authored more than 20 technical papers. Larry is survived by his wife Giovanna and son Mike. It was a privilege and honor to have him as a friend and colleague.

~ John E. Moore and Phil LaMoreaux

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Email: AIHydro@aol.com Website: www.aihydro.org

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Changes to the Bulletin

Technology advancements and the benefits of the Internet have caused the Executive Committee to consider the elimination of mailing the quarterly Bulletin and offering it exclusively on our website at www.aihydro.org. Effective with this issue, the Bulletin will no longer be mailed to you, but rather you will have access to it on the web site. You will be notified of its availability by email. Please make sure you maintain a current email address with us. We realize that some members may not want to get their Bulletin, news over the Internet and want it mailed, as usual. We will print a small number of Bulletins and mail them to any member that requests it to be mailed.

To request a mailed copy,

Call 770-384-1634 or 1-800-970-4AIH, fax 770-438-6172, email aihydro@aol.com, or write to us at AIH, 300 Village Green Circle, Suite 201, Smyrna, GA 30080.

We know the Bulletin is an important link between leadership and membership, so...

We need to hear from you.

Remember the Alamo

Did you know that AIH receives a commission for all member rental of vehicles through Alamo Rent a Car? A 24-hour reservation is required and can be made by calling **1-800-354-2322** and request your membership ID No. as **690339** with the rate code **BY**.

Nominations for 2007-2008 Officers

Nominations are now open for officers for the 2007-08 term. All officers, except the President and Past President, are open. The President-elect, Antonius Laenen, will become the President and Miguel Marino will be Past President. The open offices include:

- **President-Elect**, this person moves into the office of President at the end of their two-year term.
- **General Secretary**
- **Treasurer**
- **Vice President for Academic Affairs**
- **Vice President for International Affairs**
- **Vice President for Institute Development**

If you are interested, or you know of someone that might like to serve as an officer of AIH, send the name to AIH Headquarters at AIHydro@aol.com or call us at 1-800-970-4AIH, to let us know that you are interested, or you have a suggested nominee or if you have any questions.