

# Newsletter of the Subcommittee on Hydrology

available on-line at: <http://acwi.gov/hydrology/index.html>

Summer 2012

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## Welcome from the Chair

Greetings All:

Summer is basically here and I hope everyone takes some time to enjoy the great outdoors this time of year. Chances are good that you may find yourself on a beach, water skiing on a lake, or perhaps crossing a mountain stream while hiking somewhere. Adequate water quantity and quality is essential to an enhanced quality of life. In my case, I am fortunate enough to have an ample supply of fresh water from my large pond to irrigate several thriving bald cypress, dawn redwood, green ash and other trees. Most of the bald cypress and dawn redwoods are over 6 feet tall now; they were 12 to 18 inches when planted 2 1/2 years ago.

On the subject of sustainability, I wanted to mention the recent Sustainable Water Resources Roundtable (SWRR) meeting held last month in Arlington, VA. The SWRR is one of eight ACWI subcommittees. After Wendy Norton (Chief, Water Information Coordination Program), gave an excellent presentation on ACWI, I gave a brief presentation about the purpose and status of the Subcommittee on Hydrology (SOH) and how it fits within the SWRR context. Other ACWI subcommittees also gave their respective input and several presentations were made by other federal and water resource organizations. I encourage you to review the ACWI SWRR website; proceedings from this roundtable workshop will be

available shortly at the following link: <http://acwi.gov/swrr/index.html>

As with our SOH working group ongoing activities, I was impressed with the work of SWRR organizations and members in efforts nationwide and overseas to improve and or protect water quality and availability. Water sustainability is definitely catching on worldwide, is accelerating in scope and implementation, and hopefully will be much more than slogan in our vernacular. Here in the U.S., the Department of Defense is working on reducing their "water footprint" and the U.S. Army is off to a great start with their efforts in this area which they call a "water boot print". Similar to a carbon footprint study, a report entitled "Quantifying the Army Supply Chain Water Boot print" was recently completed which looked at water used to support the Army's supply chain by all Army components (Corps of Engineers' civil works, military construction, etc.). Browse to the following link for more information and link to the report:

<http://www.lmi.org/News---Publications/News/news-item.aspx?id=135>

An additional presentation by the U.S. Forestry Service's "Forests to Faucets" program is an excellent example of collaboration with the Bureau of Land Management, the National Park Service, and or other organizations at a state, county or municipality level. This program helps to em-

phasize the important role forests have in protecting water resources and thus serves to identify areas of interest to protect surface water quality. Read more about this smart watershed based ecosystem program at: [http://www.fs.fed.us/ecosystemservices/FS\\_Efforts/forests2faucets.shtml](http://www.fs.fed.us/ecosystemservices/FS_Efforts/forests2faucets.shtml). One specific example, among many, with the USFS / Denver Water Watershed Management Partnership can be reviewed at: <http://www.denverwater.org/supplyplanning/watersupply/partnershipUSFS/>

I hope to see you at the July 9 SOH meeting at EPA Headquarters and on July 11 at the ACWI meeting.

Best Regards,

*Richard Raione, Chair  
U.S. NRC*



### About the Subcommittee on Hydrology

*The purpose of the Subcommittee on Hydrology is "To improve the availability and reliability of surface-water quantity information needed for hazard mitigation, water supply and demand management, and environmental protection." All members who join the SOH share in and support this common purpose as a network to fulfill our mission as defined in the Terms of Reference.*

*The subcommittee Chair and current contact is Richard Raione of the U.S. Nuclear Regulatory Commission. Richard can be reached at (301) 415-7190 or at:*

*[Richard.Raione@nrc.gov](mailto:Richard.Raione@nrc.gov)*

*Detailed information about the subcommittee can be found at:*

*<http://acwi.gov/hydrology/>*

*The Subcommittee on Hydrology reports to the Advisory Committee on Water Information that operates under the Federal Advisory Committee Act.*

### ACWI Purpose

**The purpose of the Advisory Committee on Water Information (ACWI) is to improve water information for decision making about natural resources management and environmental protection. The Office of Management and Budget (OMB) Memorandum No. 92-01 designates the Department of the Interior, through the U.S. Geological Survey (USGS), as the lead agency. Other Federal organizations that fund, collect, or use water resources information work together with the USGS to implement program recommendations.**

### Highlights from April 2012 Meeting

The next meeting will be held on Monday, July 9, 2012, from noon to 3:00 pm EST (we will not be meeting on July 19, 2012). The location will be the US EPA headquarters in Washington, DC.

The SOH was fortunate to have many special presentations given by Will Thomas (Michael Baker and Associates), John England (U.S. Bureau of Reclamation), Doug Clemetson (U.S. Army Corps of Engineers), and Dave Gutierrez (California Division of Safety and Dams) with much additional input and discussion provided by the attendees. Will Thomas kicked off the meeting with an in depth look at the Hydrologic Frequency Analysis work group and was followed by John England, Doug Clemetson and Tom Nicholson discussing their respective research and input supporting the Extreme Storm Events work group. Dave Gutierrez provided perspective and information relating dam safety topics to the work of the Extreme Storm Events work group. Most work groups provided activity updates followed by a question and answer session that resulted in some follow up action items summarized and captured at the end of the meeting.

A future SOH meeting will close out the topic of previous discussions held on ACWI SOH work group priorities. Comments included:

- The need for scientists to better understand the engineers who use the hydrologic data for operational and regulatory uses.
- The acknowledgment of the challenges which scientists are having with respect to climate change/modeling and the lack of data stationarity to support scientific analyses
- The impact of these scientific challenges to the engineering community.
- Guidelines
- Advisory Role

Meeting action items were developed with anticipated follow up during the next (July 9, 2012) meeting. The meeting was well attended with thanks to all participants.

## ACWI Subcommittees

- ◆ [Monitoring](#)
- ◆ [Methods](#)
- ◆ [NAWQA Liaison](#)
- ◆ [Ground Water](#)
- ◆ [Hydrology \(SOH\)](#)
- ◆ [Sedimentation](#)
- ◆ [Spatial Water Data](#)
- ◆ [Sustainable Water](#)



### SOH Work Group Contacts

#### [Extreme Storm Events Work Group](#)

<http://acwi.gov/hydrology/extreme-storm/index.html>

Information on the activities of the Extreme Storm Events Work Group can be obtained from Tom Nicholson (301-251-7498). He can be reached by email at: [Thomas.Nicholson@nrc.gov](mailto:Thomas.Nicholson@nrc.gov).

#### [Hydrologic Frequency Analysis Work Group](#)

<http://acwi.gov/hydrology/Frequency/index.html>

Information on the activities of the Work Group can be obtained from Will Thomas. He can be reached by e-mail at: [WTHOMAS@mbakercorp.com](mailto:WTHOMAS@mbakercorp.com).

#### [Satellite Telemetry Interagency Work Group](#)

<http://acwi.gov/hydrology/stiwig/index.html>

Meeting minutes and information on the activities of this Work Group can be obtained from Richard T. Engstrom (309-794-5408, [richard.t.engstrom@usace.army.mil](mailto:richard.t.engstrom@usace.army.mil)), Bonnie Wyatt (202-205-1202) or Linnea Keating, (208-475-8312).

#### [Hydrologic and Hydraulic GIS Applications Work Group](#)

<http://acwi.gov/hydrology/h2gisa/>

For information on the Work Group or to become a member please contact Bill Merkel by phone at 301-504-3956 or by e-mail at: [william.merkel@wdc.usda.gov](mailto:william.merkel@wdc.usda.gov).

#### [Hydrologic Modeling Work Group](#)

<http://acwi.gov/hydrology/Hydro-Modeling/index.html>

For information on the Work Group or to become a member please contact Jerry Webb by phone at 202-761-0673 or by e-mail at: [jerry.w.webb@usace.army.mil](mailto:jerry.w.webb@usace.army.mil)

## Items of Interest



### [Fifty Years of Watershed Modeling Past, Present and Future](#) September 24-26, 2012 Boulder, Colorado

#### Poster Abstract Submission Deadline Extended to July 15, 2012

The overall goal of this conference is to bring experts and students together to discuss and explore the evolution and future developments of watershed modeling. The objectives are to:

1. Recognize the building blocks and honor the early developers of watershed modeling codes, and tell the story lines of advancements and failures over the past five decades;
2. Acknowledge and establish the current state of the science/technology; and
3. Project future trends and initiatives for watershed modeling over the next ten years.

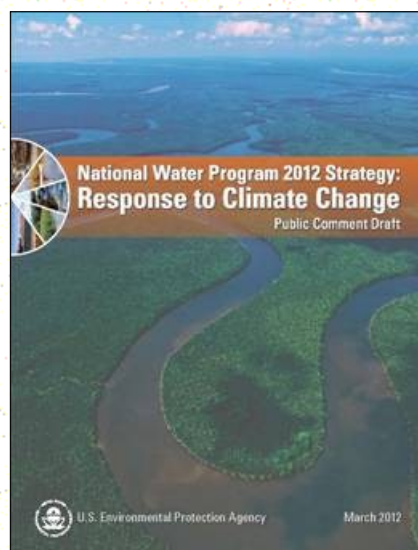
The conference is ideally suited for practicing professionals, academics, regulatory agencies and students working in the field of watershed resources by offering a broad perception of the evolution and future developments of watershed modeling. Federal and other agencies developing research and development initiatives related to watershed modeling will benefit as well.

More information can be found at  
<http://www.engconfintl.org/12ao.html>

*Courtesy of David Wells, EPA*

### [Draft National Water Program Strategy: Response to Climate Change \(2012\) Report - Closed for Public Comment](#)

EPA's Draft National Water Program 2012 Strategy: Response to Climate Change addresses climate change impacts on water resources and EPA's water programs. Climate change alters the water cycle and could affect the implementation of EPA's programs. EPA and our state, tribal, local and federal partners must review and adapt the practices that have been developed over the past 40 years since passage of the Clean Water Act, the Safe Drinking Water Act and other statutes. Ensuring that EPA's programs continue to protect public health, and the environment that sustains our communities and the economy, requires immediate and continuous collaboration.



For more information browse to:

<http://water.epa.gov/scitech/climatechange/2012-National-Water-Program-Strategy.cfm>

## Meetings of Interest

This is not an exhaustive list, but includes meetings of interest to the water resources community that have been brought to our attention. These meetings may be, but are not necessarily, co-sponsored by ACWI or Council member

July 10-11, 2012	<a href="#">2012 Annual ACWI Meeting</a> , Herndon, VA.
July 15-18, 2012	NACWA Summer Conference and 42nd Annual Meeting Philadelphia, Pennsylvania
September 29 – October 3, 2012	<a href="#">WEFTEC 2012</a> New Orleans, Louisiana
October 14-18, 2012	<a href="#">Association of State Drinking Water Administrators Annual Conference</a> Little Rock, Arkansas
October 16-17, 2012	<a href="#">NGWA Focus Conference on Gulf Coast Groundwater Issues</a> Baton Rouge, Louisiana
October 21-24, 2012	<a href="#">Association of Metropolitan Water Agencies Annual Meeting</a> Portland, Oregon
October 18-20, 2012	<a href="#">American Society of Civil Engineers - 142nd Annual Civil Engineering Conference</a> Montreal, Quebec, Canada
October 25-26, 2012	<a href="#">NGWA Conference on Great Plains Aquifers: Beyond the Ogallala</a> Omaha, Nebraska
November 7-10, 2012	NALMS International Symposium Madison, Wisconsin
November 12-15, 2012	American Water Resources Association Annual Water Resources Conference Jacksonville, Florida
December 4-7, 2012	<a href="#">National Ground Water Association 2012 Ground Water Expo</a> Las Vegas, Nevada
April 28-May 2, 2013	<a href="#">2013 NGWA Summit</a> — The National and International Conference on Groundwater San Antonio, Texas

## Annual SOH presentation to ACWI Subcommittee

Wednesday Morning, July 11, 2011  
10:45—12:15

Crown Plaza Hotel (room location **TBD**),  
2200 Centreville Road  
Herndon, Virginia, 20170  
Bridgeline: **TBA**  
Contact: [Richard Raione](#), (301) 415-7190



Annual SOH presentation to ACWI to start at 10:45 am and have a total of about an hour and a half. We will begin with a very brief set of introductions with presentations from the Extreme Storms Working Group (Thomas Nicholson) and the Hydrologic Frequency Analysis Work Group (William Thomas), and follow up with additional summaries of the Hydrologic and Hydraulic GIS Applications Work Group (William Merkel), the Hydrologic Modeling Workgroup (Jerry Webb), and the Satellite Telemetry Interagency Work Group (Bonnie Wyatt and Linnea Keating). Browse to <http://acwi.gov/acwi-minutes/acwi2012/index.html> or contact [Richard Raione](#) for more information on the meeting.

## ACWI Subcommittee on Hydrology Meeting

### Place:

EPA East (the Old ICC Building), Room 4349  
1201 Constitution Avenue, N.W.  
Washington, DC

### Contacts:

POC for building entry: Kevin Wilkerson, (202) 250-8853  
ACWI POC: [David Wells](#), (202) 566-0387

### Time and Date:

12:00—3:00 p.m., July 9, 2012 (arrive 15 minutes early **with photo ID** for security check)

**Presentation Materials:** Due 48 hours in advance to [Richard Raione](#), [Victor Hom](#) and [David Wells](#).

### Directions:

Metro—Orange or Blue line to Federal Triangle station. Exit turn style, go up two short escalators and you will be facing a plaza and the Ronald Reagan Building. Proceed to right on 12th St. NW for 1/2 block to intersection of 12th St NW and Constitution Avenue. Turn right on Constitution Avenue and enter EPA East Building (also known as the “Old ICC Building”) and check in with security. Between 11:00 and 12:00 someone will be at the entrance for directions to the conference room (4349).

### Parking:

Although driving is not recommended, parking is available but usually full by 9:00 a.m. Commercial garages are nearby and the Ronald Reagan Building the closest garage (\$10/hr/\$23 all day). Photo ID may be required to enter the garage. Driving directions can be found on the [EPA website](http://www.epa.gov/aboutepa/hq.html#metro) (<http://www.epa.gov/aboutepa/hq.html#metro>).



# Final Notes



## ACWI Subcommittee on Hydrology Working Group Presentations

- ⇒ Please send slide presentations to [Richard Raione](#) and [Victor Hom](#).
- ⇒ July 11, 2012, starting at 10:45am, ending at 12:15 pm
- ⇒ Location: Crowne Plaza Hotel, Herndon, VA (still preliminary)

Suggested input for slide presentations include:

- Brief purpose, goals, objectives and history of the working group
- Status over the previous one to two years, accomplishments, milestones
- Predicted status and work to be done in the upcoming year or so

Also, identify areas where ACWI can provide guidance, input and problem solving. Include any wish-list funding needs and associated rationale / justification.

Any optional-additional narratives regarding working group status may be provided prior to the ACWI meeting for in-depth insights.

To submit items for the newsletter, please contact:

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(301) 415 7190

[Victor Hom](#), Vice Chair  
301-713-0006 x173

[Joe Giacinto](#), Editor  
(301) 415 0714

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(301) 415 6894



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