MEETING OF
ADVISORY COMMITTEE ON WATER INFORMATION’S (ACWI)
SUBCOMMITTEE ON HYDROLOGY (SOH)

9:00 a.m. – Noon, Eastern Time
July 21, 2011
Room 1052-S
USDA South Building
Washington, D.C.  20250

M I N U T E S

AGENDA
1. Welcome and Introductions        Claudia C. Hoeft
2. Review and Approval of Agenda      Claudia C. Hoeft
3. Approval of Minutes from April 21, 2011 Meeting    Claudia C. Hoeft
4. Status of Action Items from April 21, 2011 Meeting Claudia C. Hoeft
5. Guest Speakers:  Siamak Esfandiary, FEMA and Bill Blanton, FEMA Siamak Esfandiary
   Topic:  The New FEMA Mapping Approach to Non-accredited and De-accredited Levees
6. Vice-Chair Nominations      Claudia C. Hoeft
7. SOH Guests (Follow-up discussion)    Claudia C. Hoeft
9. Report from ACWI meeting, July 12-13, 2011 Claudia C. Hoeft
10. Water Data Work Group Status Dave Goodrich
11. Work Group Reports
   a) Hydrologic Modeling Work Group    Jerry Webb/Claudia Hoeft
      E-mail from Matt Römkens, Chair, SOS, regarding joint conference.
   b) Hydrologic Frequency Analysis Work Group Will Thomas
   c) Hydrologic and Hydraulic GIS Applications Work Group William Merkel
   d) Extreme Storms Work Group        Tom Nicholson
   e) Satellite Telemetry Interagency Work Group
12. New Work Group Proposals
   a) Climate Change Work Group Nancy Steinberger
   b) Tsunami Flood Protection Work Group Richard Raione
13. Current Events within Hydrologic Communities  All
14. Announcements and Q&A on Business Reports from Member Organizations All
   a) Business Reports
   b) “The SOH CONNECTIONS” Newsletter Editor’s Report
   c) Other?
15. Review Action Items Claudia C. Hoeft
16. Plans for Next Meeting Richard Raione

Adjourn
1. Welcome and Introductions
   - Gene Stallings was calling in from the hospital as he awaited some tests and requested to address the SOH in relation to the work being done by the Extreme Storm Work Group. Gene requested that the SOH develop a strong statement to ACWI regarding the need for updating the HMR and stressing how important this work is. Gene also volunteered his time to work with John England on developing the proposal being developed by the Work Group since he is familiar with all the history of the hydrometeorological reports.

2. Review and Approval of Agenda
   The agenda was reviewed with minor changes proposed and approved.

3. Approval of Minutes from January 20, 2011 meeting
   Minutes were approved pending minor revisions submitted by Sam Lin.

4. Status of Action Items from January 20, 20011 meeting
   - **Claudia Hoefi**: Make final corrections/edits to minutes from the January 20, 2011 meeting and send to Carol Lewis for posting on SOH web-site. Complete
   - Claudia work to draft a standard procedure regarding welcome to meetings and expectations / needs of guests who wish to attend SOH meetings. Carry forward
   - **Nancy Steinberger**: Prepare a brief write-up on California Complete
<table>
<thead>
<tr>
<th>Task</th>
<th>Status</th>
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<tbody>
<tr>
<td>Nancy Steinberger to work with California DWR to encourage them to submit letter requesting to join SOH.</td>
<td>Complete</td>
</tr>
<tr>
<td><strong>All members:</strong> Let Jerry Webb know of interest in working on the next Joint Conference.</td>
<td>Complete</td>
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<tr>
<td><strong>All members:</strong> Provide suggestions/recommendations to Jerry Webb on proposed location for next Joint Conference (in 2014).</td>
<td>Complete</td>
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<td><strong>Bill Merkel:</strong> Send a brief report on the Hydrologic Modeling Inventory for inclusion into the meeting minutes which can also be used as an SOH Connections article and start the foundation for an “information” section on the SOH web-page.</td>
<td>Complete</td>
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<tr>
<td><strong>Claudia Hoef:</strong> Investigate what is required for a final report and dissolving a work group.</td>
<td>Carry forward</td>
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<td><strong>Claudia Hoef:</strong> At the next ACWI meeting, prepare to present information on what we are doing regarding the data working group and find out if they have plans for an umbrella working group covering all the Subcommittees, or if they are planning a Data Subcommittee to deal with the data sharing/data format issues.</td>
<td>Complete</td>
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<td><strong>All members:</strong> Provide narratives describing the NEED for updated HMR 51 (PMP) for the Extreme Storms Events Work Groups (Tom Nicholson) by the end of May.</td>
<td>Complete</td>
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<td><strong>Brian Beucler:</strong> Provide information web-links on Climate Change approaches as applied in FHWA.</td>
<td>Complete</td>
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<tr>
<td><strong>All members:</strong> Provide narratives to Nancy Steinberger describing Agency/Organization interest and needs relevant to Climate Change to gage interest in forming a Climate Change Work Group.</td>
<td>Complete</td>
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<td><strong>Nancy Steinberger:</strong> Hold discussion within HFAWG on climate change analysis and relation to Bulletin 17B update – report back to SOH at next meeting.</td>
<td>Complete</td>
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<tr>
<td><strong>All members:</strong> Provide information to Tom Nicholson and Richard Raione regarding need for Tsunami damage information/procedures to gage interest in forming a Tsunami Damages Work Group.</td>
<td>Complete</td>
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<tr>
<td><strong>Jerry Webb:</strong> Provide information on the Corps’ Infrastructure Systems Conference.</td>
<td>Complete</td>
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<td><strong>Claudia Hoef:</strong> Recommendation: In future, distribute business reports to the Subcommittee prior to the meetings.</td>
<td>Complete</td>
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<tr>
<td><strong>All members:</strong> REMINDER: Submit agency business reports prior to the meetings.</td>
<td>Complete</td>
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<td><strong>All members:</strong> Send newsletter articles to Richard Raione, Joe Giacinto – the sooner the better (next newsletter being planned for mid-summer).</td>
<td>Complete</td>
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<td><strong>Claudia Hoef:</strong> Send information to SOH members regarding the SWRR meeting.</td>
<td>Complete</td>
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5. **Guest Speaker: Siamak Esfandiary, Federal Emergency Management Agency**
Siamak Esfandiary of the Federal Emergency Management Agency gave a presentation on FEMA’s Levee Analysis and Mapping Project (LAMP). Siamak’s PowerPoint slides are attached and are also to be posted on the SOH web-site at: [http://acwi.gov/hydrology/minutes/index.html](http://acwi.gov/hydrology/minutes/index.html).

6. **Vice-Chair Nominations**
Victor Hom was presented as a nominee for the position of Vice-Chair of SOH. Victor also volunteered himself to serve as Vice-Chair based on his supervisor’s approval. The SOH members were pleased by both Victor’s nomination and his volunteering to fill the position and immediately approved his selection as incoming Vice-Chair. Richard Raione assumes the position of Chair and Victor Hom assumes the position of Vice-Chair of SOH effective at the next meeting on October 20, 2011.

7. **SOH Guests (Follow-up discussion)**
Claudia Hoeft requested to carry this item forward as she has not had the opportunity to develop a draft protocol.

8. **Risk based assessment / Event Severity Discussion – Part 2**
Victor Hom provided the following information to close out the discussion of risk based assessments and event severity.

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**Risk based assessment / Event Severity**

Discussion - Part 1
ACWI SOH Meeting 1/20/11

Transcript
Victor Hom, NWS

- Risk-based hydrologic assessment is factored into NWS Flash Flood and River Products
- NWS goal is to save life, property, and economic well being of the United States through our forecast and warning services.
- The forecast and warnings are enhanced by products such as:
  - Spring flood outlooks ... working with snow observers and cooperators such as USDA, USACE, USBR to collect snow data for hydrologic assessment.
  - Flash flood Potential Index (FFPI) and gridded flash flood forecasts which shows the amount of precipitation needed to trigger flash floods.
- For river flooding, NWS relies on issuing its forecasts and warnings relative to the flood categories, established locally by NWS Service Hydrologists and local officials such as emergency managers. The categories are minor, moderate, and major rainfall. NWS customer surveys and outreach show that these are understood well and should not be changed. The survey shows the need to better the quantification of certainty/uncertainty of the NWS forecasts and to enhance the communication of forecast to the effected local communities through flood inundation maps. The static flood forecast inundation maps will be accomplished through AHPS and the dynamic is part of IWRSS (Integrated Water Resources and Services) initiative, which is being spearheaded by NOAA, USACE, and USGS.
• Since rainfall is a big driver for floods, HPC produces Excessive Rainfall Forecast (http://www.hpc.ncep.noaa.gov/qpf/excess_rain.shtml)
• On the low end, NWS also monitors for drought potentials.

The challenge is that severe and extreme events have caught the Nationals attention. With climate change, scientists have been reporting more moisture in the atmosphere. There are three main factors to produce rainfall, namely, available moisture (precipitable waters), instability, and lift. So moisture is one of the main factors into the equation. To create the extreme rainfall, there needs to be the other triggers.

So back to Flood Forecast Inundation Mapping and Flood Scenario Mapping.

There is a need for both and the need helps with the risk and event severity assessments.
- The flood scenario mapping, which are created for various scenarios (such as dambreak, flood frequency, storm frequency) are used for preplanning.
- When using this type of product in real-time, it is critical to assess whether conditions have changed since the scenario map was generated and secondly whether the scenario will likely arise.
- Afterwards, the proper inundation map could be used in the communication into pre-event plan.
- In NWS AHPS Flood Inundation Map libraries and USGS FIMI products, both agencies develops a library of flood maps tied to USGS River Observation and NWS Forecast Gages, thus the terminology of Flood Forecast Inundation Mapping.
- Both types of flood maps provide the communities the opportunity to exercise and plan for future/near-term severe weather events.

NWS values our Federal partners and the members in the ACWI SOH.

I personally see IWRSS critical in addressing some of the challenges which SOH members have raised.

I also personally see the need for FEMA RiskMAP (Mapping Assessment and Planning) to strategize with its Federal Partners so that some of the hydrologic challenges are resolved in collective synergistic manner.

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**Risk based assessment / Event Severity**

Discussion - Part 2  
ACWI SOH Meeting 7/21/11  
Outline

• Provide summary of USGS, USACE, FEMA, and NOAA Freshwater Flood Inundation Mapping Meeting in June 2011.
• Overarching goal of the meeting was to enhance inter-agency collaboration to better communicate flood risk and reduce repetitive flood losses.
• Quick Review of the Respective Program Areas (FEMA, NOAA, USGS, USACE)
• Recap of the Major Outcomes
• Opportunities for Multi-Agency Alignment

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9. **Report from ACWI meeting, July 12-13, 2011**

On July 12, Claudia Hoeft made a presentation to the ACWI regarding activities of the SOH. The slides she used in her presentation are attached. The following write-up was also presented to the SOH:
Subcommittee on Hydrology  
Report to the Advisory Committee on Water Information  
July 12, 2011

SOH Leadership:  
The Subcommittee members were deeply saddened upon the very sudden and unexpected passing of Mary Greene, USDA-NRCS, Chair the SOH, in July of last year. This left the Subcommittee with a dilemma as is tried to determine how best carry on Subcommittee functions and work with the least amount of disruption. Ultimately, in order to maintain consistency and the normal election cycle, Subcommittee members decided on the following actions:
1 – Claudia Hoeft, USDA-NRCS, Vice-chair, to take over the position of Chair and complete Mary’s term;
2 – Elect a new Vice-Chair to replace Claudia.
3 – The newly elected Vice-Chair takes over as Chair at the end of Mary’s original term ending September 30, 2011.

Richard Raione, NRC, volunteered to serve as Vice-Chair for the remainder of the term and will assume the position of Chair effective October 1, 2011. The Subcommittee will be electing a new vice-chair at the next regularly scheduled meeting on July 20, 2011.

Subcommittee Membership:  
The Subcommittee lost one member organization, American Forests, when it reorganized. That reorganization, however, led to the establishment of the Global Ecosystems Center (GEC) and the American Forests representatives, Don Woodward, and Ken Kay, now represent GEC.

California Division of Water has inquired through the FEMA representatives about membership on SOH. The Subcommittee expects a written request soon, but to date, none has been received.

Work Group Reports:  
Hydrologic Frequency Analysis Work Group (HFAWG)  
Will Thomas, Association of State Floodplain Managers Association (ASFPM), Chair

The Hydrologic Frequency Analysis Work Group (HFAWG) has identified several revisions that are needed in Bulletin 17B, Guidelines For Determining Flood Flow Frequency (http://acwi.gov/hydrology/Frequency). One of those revisions includes the evaluation of a new statistical procedure, the Expected Moments Algorithm (EMA), for estimating the moments of the Pearson Type III distribution. This testing has been ongoing for a few years. During 2009 the HFAWG prepared a draft report describing comparisons of EMA to the existing Bulletin 17B procedures using peak-flow data for 82 long-term gaging stations. These tests indicated that EMA and Bulletin 17B analyses depart the most at those stations that had low outliers. This prompted the HFAWG to develop a Generalized Grubbs-Beck test for identifying multiple low outliers. The computer code has recently been revised and new analyses performed at the 82 long-term gaging stations. The Generalized Grubbs-Beck test identifies more outliers than the existing Grubbs-Beck test and this new test may be a good way to deal with the low-outlier issue within the context of flood frequency analysis.

Future plans include completing the EMA – Bulletin 17B testing on observed data and performing some limited tests on simulated data for a mixture of assumed frequency distributions. Once these test results are completed and the HFAWG has evaluated these results, recommendations will be made to the Subcommittee on Hydrology and the ACWI on revisions to Bulletin 17B. These recommendations will be forthcoming sometime in 2012.
Extreme Storm Event Work Group
Tom Nicholson, NRC, Chair

At the direction of the SOH, the Extreme Storm Event Work Group formed an Ad Hoc Committee in December 2010, chaired by John England, U.S. Bureau of Reclamation, to prepare a proposal for updating Probable Maximum Precipitation (PMP) estimates for the U.S. The Ad Hoc committee met on February 23, 2011 to discuss development of a proposal outline. The committee decided that the proposal would have a two-phase approach: a short-term (1 to 2 years) Phase I effort to organize and document what is presently available [(e.g., existing PMP methods; updating the USACE Storm Rainfall Catalog (1973) with new data such as electronic Depth-Area-Duration (D-A-D) data for each new storm; and developing a Web Portal for the data, etc); and a Phase II (2 to 5 years) effort focusing on review of new potential methods such as 3-dimensional models (WRF) to replace the storm separation concept, and evaluating and testing select new methods for estimating PMPs. Finally, the HydroMeteorological Reports (HMRs) should be updated with the PMP estimates using those new methods. It was decided that the initial effort would be on updating HMR 51 (eastern half of the conterminous U.S.). John England requested each Federal agency to provide a short narrative on why they needed an updated HRM 51.

The draft "PMP Proposal" outline is:

Phase 1:
1. Background and Need
2. Summary Literature Review
   - document existing methods
   - identify any major flaws (if any)
   - identify some new methods (no recommendations)
3. Storm Rainfall Catalog Update
   - update the USACE Storm Rainfall Catalog (through 1973) with new data
   - electronic D-A-D data for each new storm
   - develop web portal for data
4. PMP Updates of HMRs using Existing Methods
   - target HMR 51 first
   - web portal for reporting data and HMR updates
5. Federal Interagency Technical Oversight Group
   - define the group, its technical functions, capabilities, and requirements
Phase 2
6. Detailed Literature Review on New Potential Methods
   - such as 3-D numerical models (WRF) to replace the storm separation concept
7. Evaluating and Testing of Select New Methods
8. PMP updates of HMRs

Hydrologic Modeling Work Group
Jerry W. Webb, USACE. Chair

The Hydrologic Modeling Work Group has primary responsibility for hosting the Federal Interagency Hydrologic Modeling Conference. The last two Federal Interagency Hydrologic Modeling Conferences have been held in conjunction with the Subcommittee on Sedimentation’s Sedimentation Conference. The last Joint conference was held last year. The next, 3rd, Joint Conference is planned for 2014. To date, site and date are not yet determined, but the primary organization of the planning group has been established. Planning for the next conference will kick off soon in conjunction with the Subcommittee on Sedimentation.

GIS Applications in Hydrology and Hydraulics
William Merkel, USDA-NRCS, Chair
Since its establishment in 2007, the Work Group has held an average of 4 teleconferences per year during which various GIS applications were identified and demonstrated. A questionnaire requesting information on GIS applications in hydrology and hydraulics was formulated and distributed to federal and outside organizations. Questionnaires were received from 12 application developers. An agreement was funded with the assistance of the Bureau of Reclamation with Texas A&M University to add these applications to the Hydrologic Model Inventory maintained by Texas A&M. Two papers were presented on the activities of the Work Group at major professional conferences.

There may be additional benefits from keeping the Work Group active, however, when the Work Group was organized the terms of reference did not foresee this as a long-standing Work Group. The major item from the terms of reference that needs to be completed is a report on the state-of-the-art of GIS applications in hydrology and hydraulics. The field of GIS and its applications is constantly moving forward, so this report is envisioned as a snapshot in time. A draft outline for such a report will be distributed to the Work Group members for comments within the next month. The complete report is envisioned in about 6 months.

**Satellite Telemetry Interagency Work Group**  
*Robbie Swofford, BLM, Chair*

The current chair of the STIWG is Robbie Swofford of the Bureau of Land Management. Daniel Schwitalla of USGS currently serves as Vice-Chair and local DC area contact for STIWG. The STIWG is jointly sponsored by the Interdepartmental Committee for Meteorological Services and Supporting Research (ICMSSR) and the Advisory Committee on Water Information (ACWI); and reports directly to the Committee for Environmental Services, Operations and Research Needs (CESORN) of the ICMSSR and the Subcommittee on Hydrology (SOH) of the ACWI.

**Other SOH Activities:**

**Federal Water Data Sharing**  
*Dave Goodrich, ARS, Work Group Contact*

Dave Goodrich, ARS, continues his great efforts at coordinating with the Hydrology Domain Working Group a Joint Working Group of the World Meteorological Organisation (WMO) and the Open Geospatial Consortium (OGC) to provide information on the Federal Water Data Sharing efforts to SOH. We are hoping to have an invited guest speaker at a future meeting to make a presentation on the Federal Water Data Sharing efforts. *Role for Subcommittee on Spatial Water Data!!!*

**SOH Connections Newsletter**  
*Richard Raione, NRC, Editor\  
Joseph Giacinto, NRC, Assistant-Editor*

The SOH continues to issue the SOH Connections Newsletter, although on a somewhat infrequent basis. We continue to receive positive feedback from subcommittee members and others on the newsletter, but occasionally have difficulty getting submittals for the newsletter. Richard Raione, NRC, currently serves as the newsletter editor and Joseph Giacinto, NRC, as Assistant-editor.

Three noteworthy items from the Claudia’s presentation to the ACWI:

1. ACWI members expressed interest in providing support for continued maintenance of the H&H GIS Applications Database currently hosted by Texas A&M and expressed that if the
SOH were to submit a resolution for ACWI to continue support, they would be willing to sign the resolution.
2. A great deal of discussion was sparked regarding ACWI subcommittee roles and the need for a subcommittee to have an increased role in regards to the Federal Water Data Sharing efforts.
3. Questions were raised by ACWI members regarding whether there is a formal structure for facilitating communication amongst subcommittees. Currently there is none, and subcommittees typically learn of others activities through subcommittee reports presented to ACWI, or individuals that may have a role on more than one subcommittee.

10. Water Data Work Group Status
Dave Goodrich, ARS, was unable to attend this meeting, but did report that he has a meeting scheduled with David Maidment on Aug. 9 and hopes to go over recent HIS updates. Dave plans to report to the SOH on that at the next regular meeting.

11. Work Group Reports
a) Hydrologic Modeling Work Group
Claudia Hoeft reported receiving an e-mail from Matt Römkens, Chair, SOS, regarding SOH’s willingness to host the next joint conference. Matt asked specifically if SOH had formally elected to host the next joint conference with SOS and that it be officially voted upon by SOH and recorded in the SOH meeting minutes. Without much discussion, a motion was made and the SOH unanimously agreed to continue to host the 2014 and future joint conferences in conjunction with SOS. A number of persons from SOH have already volunteered to fill various roles for coordinating the next joint conference and members were reminded to notify Jerry Webb as soon as possible if they are willing to help with the conference.

b) Hydrologic Frequency Analysis Work Group
Will Thomas reported that the testing of the Expected Moments Algorithm (EMA) and Bulletin 17B procedures were continuing with the updated version of the EMA code. The latest version of the code includes a Multiple Grubbs-Beck test for identifying multiple low outliers. The testing on observed data for 82 gaging stations and simulated data is being done by USGS personnel in Reston, VA and Sacramento, CA. Once this testing is completed, the results will be documented in a report (update of November 2009 report) and provided to the HFAWG for review. Recommendations will be made to the Subcommittee on Hydrology on possible revisions to Bulletin 17B.

c) Hydrologic and Hydraulic GIS Applications Work Group
(NEED WRITE-UP: Bill Merkel)

d) Extreme Storms Work Group
(NEED WRITE-UP: Tom Nicholson)

e) Satellite Telemetry Interagency Work Group
(NEED WRITE-UP: Dan Schwitalla)

12. New Work Group Proposals
a) Climate Change Work Group
Nancy Steinberger recommended a Climate Change Work Group not be established under SOH at this time. ACWI is apparently starting a pilot work group under another subcommittee and it is felt best not to try to duplicate efforts.

b) Tsunami Flood Protection Work Group
Richard Raione recommends pulling back the recommendation to establish a tsunami work group at this time. There were no other expressions of interest from other agencies. Victor Hom pointed out that coastal hydrology issues, including tsunami, cannot be ignored, but it may be best to consider other impact of coastal hydrology such as storm surge over tsunami at this time. Victor also suggested we have a speaker in the future talk about coastal hydrology issues.

13. Current Events within Hydrologic Communities
Ted Engman reported that ID and NASA are sponsoring an ET workshop. (Ted to send write-up). Also a NASA, World Bank, AID project to work on data assimilation continues to develop water balance information.

Victor Hom, NWS, provided the following:

August 2011

1. National Levee Database (NLD)
USACE will be hosted a WEBINAR to provide an overview of the NLD and a Question/Answer session from 9:00 am – 10:00 am Eastern Time on July 26th. The call-in information is as follows:

Voice: USA Toll-Free: (877)873-8017
ACCESS CODE: 2974367
PC: https://www.webmeeting.att.com
Meeting Number(s): (877)873-8017
ACCESS CODE: 2974367
SECURITY CODE: 4682

For more information of this webinar or next workshop, please contact Cathi Sanders, NLD Project Manager via email: Catherine.R.Sanders@usace.army.mil. The beta-version of the NLD can be accessed at https://nld.usace.army.mil

2. 2011 USACE Flood Risk Management and Silver Jackets Annual Workshop
The 2nd annual workshop will take place on August 15-19, 2011 in Nashville, Tennessee. This workshop will:
• Emphasize interagency activities in managing flood risk, including those of FEMA, the USACE Flood Risk Management and Silver Jackets programs, additional Federal agencies and various state and local initiatives such as hazard mitigation plans
• Discuss program policy, strategies, successes and challenges
• Facilitate networking and enhance collaborative problem solving
• Facilitate information-sharing among Federal and state partners
For more information and registration, please visit: http://www.nfrmp.us/frmpw/

14. Announcements and Q&A on Business Reports from Member Organizations
a) Business Reports

FERC’s Report for the SOH’s 7/21/11 meeting

On July 13, 2011, FERC participated in a Board of Consultant’s meeting with Wisconsin Valley Improvement Company (WVIC), the licensee for the Eau Pleine Dam Project, in Minneapolis, Minnesota. The project is under remediation for an inadequate spillway capacity. During the meeting, the BOC meeting groups visited the National Weather Service (NWS) North Central River Forecast Center in Chanhassen, Minnesota. The NWS presented their hydrologic forecasting capabilities for the advanced hydrologic prediction service (AHPS) and showed how their forecasting models including quantitative precipitation forecasting (QPF) were used by the WVIC and NWS to coordinate the pre-drawdown of the Eau Pleine, Petenwell and Castle Rock reservoirs during the September 2010 event which subsequently reduced the degree of downstream flooding, particularly at Portage, Wisconsin. The presentation indicated that even with a preliminary interim pre-drawdown plan, the benefits of this initial cooperation of the WVIC, NWS and downstream dam operators were considerable. NWS’ presentation will help support the licensee’s proposal to use a preemptive partial drawdown of the reservoir in anticipation of extreme flood events as part of the permanent remedial fix for the safety of dam during the PMF.

Victor Hom:
- COE and FEMA Silver Jackets meeting in Nashville in the middle of August. Victor will send additional information.
- Integrated Water Resource Science and Services (IWRSS) MOU signed 05/11.
- ASFPM Abstract for ASFPM 2012 Annual Conference is due 10/30/11. See floods.org for details.

Tom Nicholson:
- American Nuclear Society upcoming meeting.
- American Nuclear Standards Institute looking at groundwater standards.
- American Nuclear Society Winter Meeting at November conference.

Richard Raione:
- Encourages communication/collaboration with other ACWI Subcommittees:
  - Subcommittee on Groundwater is working on a database. We need to invite them to provide a write-up for the Newsletter.
  - Subcommittee on Water Sustainability.

b) “The SOH CONNECTIONS” Newsletter Editor’s Report
Joe Giacinto encourages submittals for the newsletter and encourages members to submit information gleaned from other newsletters if they feel it is noteworthy. The next issue is planned for late summer.

15. Review Action Items

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<th>Draft a standard procedure regarding welcome to meetings and expectations / needs of guests who wish to attend SOH meetings.</th>
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<td>Dan Schвиталь</td>
<td>STIWG draft statement of concern regarding bandwidth sell off impact on hydrology and hydraulic data.</td>
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16. Plans for Next Meeting
Claudia reminded the SOH that regular quarterly meetings are scheduled for the third Thursday of the first month of each quarter starting at the beginning of the fiscal year. Thus, meetings are the third Thursday of October, January, April, and June. Therefore, the next SOH meeting is scheduled for October 20, 2011.

Richard Raione asked about alternating meeting locations. Claudia pointed out that the Terms of Reference state only that at least three meetings each year will be held in the Washington, D.C. metropolitan area. This covers a wide area, so it's possible to hold meetings almost anywhere around the DC region. Most members requested that meeting venues be held at locations convenient to the Metro stops. Nancy Steinberger asked about the possibility of meetings starting later in the day. She calls in from Denver and a 9:00 eastern time start means 7:00 a.m. for her. She also reminded us that with California DWR joining the group a 9:00 eastern time start means 6:00 a.m. in California.

Members agreed to try a 1:00 p.m. eastern time start for the October 20, 2011 meeting to be held at NOAA-NWS in Silver Spring.