

## Subcommittee on Ground Water

Monday July 15, 2019

Draft Minutes

Conference Call

USGS Headquarters, Reston, VA

Time	Topic	Discussion Leader
Noon	<p>Welcome and Attendance (Bold indicates present)</p> <ul style="list-style-type: none"> <li>• <b>Bill Cunningham</b>, federal co-chair, USGS representative*</li> <li>• Bob Schreiber, non-federal co-chair, ASCE representative*</li> <li>• Lauren Schapker, executive secretary, NGWA (Lauren has departed NGWA and thus her role as SOGW Executive Secretary).</li> <li>• Brandon Kernen, ASDWA representative, Darrel Osterhoudt, alternate*</li> <li>• Cary <b>Betz</b>, State Representative*</li> <li>• Chris <b>Carlson</b>, Forest Service*</li> <li>• Dave <b>Langseth</b>, NGWA representative*</li> <li>• Kara <b>Goodwin</b>, EPA representative*</li> <li>• Mary <b>Musick</b>, GWPC representative*</li> <li>• Dave <b>Wunsch</b>, AASG representative*</li> <li>• Jeffrey <b>Davis</b>, Barr</li> <li>• Treasure Bailley, EPA Region 8</li> <li>• Tim Parker, Parker Groundwater</li> <li>• Daryll <b>Pope</b>, USGS</li> <li>• Dave Larson, Retired, IL St. Geo Survey</li> <li>• Joe <b>Fillingham</b> and/or Marian Singer, WellIntel</li> <li>• Rick <b>Copeland</b>, FL DEP</li> <li>• Candice Hopkins, USGS</li> <li>• Alice <b>McCarthy</b>, USGS</li> <li>• Tom Nicholson, NRC</li> <li>• Lily <b>Barkau</b>, WY DEQ</li> <li>• Luke <b>Buckley</b>, MT Bureau of Mines and Geology</li> <li>• Chuck <b>Schalk</b>, USGS</li> <li>• Joe <b>Williams</b>, US EPA ORD</li> <li>• John LaFave, MT Bureau of Mines and Geology</li> <li>• Alan Kolok, University of Idaho</li> <li>• Kris <b>McSwain</b>, DFO, USGS ACWI Coordinator</li> </ul> <p>Others</p> <ul style="list-style-type: none"> <li>• Johanna Kovarik, Forest Service</li> <li>• Lori Huntoon, ASTM</li> <li>• Joe Gurrieri, USFS</li> <li>• Adrienne Bartlewitz, USGS</li> <li>• Kathleen Fultz, Water Quality Association</li> <li>• Adam Hobson, In-Situ</li> <li>• Chuck Job, NGWA</li> </ul>	Bill

\* Voting organization representative/alternate per Terms of Reference

	Peter <b>Colohan</b> , Duke University and the Internet of Water Ashley <b>Ward</b> , Internet of Water outreach and engagement Kyle <b>Onda</b> , Internet of Water data architect	
12:05	<p>Call Purpose</p> <ol style="list-style-type: none"> <li>1. Status Report: ACWI Update</li> <li>2. Internet of Water Presentation</li> <li>3. Status Report: Cooperative Agreements</li> <li>4. Status Report: NGWMN Portal</li> <li>5. SOGW Workgroups</li> <li>6. Future agenda topics</li> <li>7. Outreach Report</li> </ol>	Bill
	<b>Business Portion</b>	
12:07 P	<p>Approval of agenda – additions/deletions (Attachment 1) Opportunity to add to the agenda</p> <p>No agenda additions</p> <p><b>Expected Outcome: Approve agenda</b></p>	Bill
12:09 P	<p>Approval of previous minutes (Attachment 2)</p> <p>Previous minutes were approved.</p> <p><b>Expected Outcome: Approve minutes</b></p>	Bill
	<b>SOGW Work Items</b>	
12:10 P	<p>Status Report: ACWI Update</p> <ul style="list-style-type: none"> <li>• ACWI Membership</li> </ul> <p>Kris reminded everyone about the Presidential Executive Order that requires all Departments to evaluate their FACA committees and reduce them by 1/3 by the end of the FY. Kris has completed the USGS justification for ACWI, and she is pretty confident about the success of the submission. The USGS has 5 FACA's, and the DOI has 105, so DOI must reduce by 34 or 35 on the books. 17 have already wrapped up.</p> <p>Kara asked about the status of membership. Kris reported that members have applied and have been evaluated. Membership action by DOI is on hold pending action on the Exec Order.</p> <p>Kris – reminded the SOGW that neither ACWI nor its subcommittees could take on any new work.</p> <p>Mary reminded the SOGW that the F2F meeting notes (Las Vegas 2018) are not on the web.</p> <p><b>Expected Outcome: Information Exchange</b></p>	Kris/Bill
12:12P	<p><b>Guest Presentation: Internet of Water</b></p> <p>Peter Colohan, Executive Director for IoW, Duke University</p> <p>Bill introduced Peter Colohan. The SOGW is very pleased that he is sharing his time with us today to present background and status of the IoW.</p>	Peter Colohan

	<p>Peter worked for NOAA for 16 years in the Office of Water Prediction. Also in OSTP as the Asst Dir for Environmental Data. Peter is a big fan of the ACWI and the SOGW. He introduced Kyle and Ashley (in the attendance list).</p> <p>The IoW came out of an Aspen Institute forum. Decision made to create an NGO to run it, to take advantage of non-governmental funding sources, and to remove any government barriers. The IoW was initiated at Duke University in 2018, and the team was hired in 2019, so this is a brand new effort. The NGWMN is a “hub” of the IoW, and the ACWI is a part of the IoW Coalition. 2019-2012 is the start up period for the IoW. There are currently 7 organizations that are partners and/or funders. They are currently building trust, and developing sharing approaches. They expect to develop common tools in the next year or sooner. They have selected some pilot states/partners (CA, Tx, NC, NM, and CO).</p> <p>Peter’s presentation was provided to the SOGW membership under separate distribution on July 16.</p> <p>David W asked how the IoW differs from NSF’s EarthCube. Peter replied that IoW is not an earth science exercise—it is a water policy effort. Data for policy, not a modeling exercise.</p> <p><b>Expected Outcome: Information Exchange</b></p>	
12:32 P	<p>Status Report: NGWMN Cooperative Agreements</p> <ul style="list-style-type: none"> <li>• Existing cooperative agreements</li> <li>• New proposals/Award status</li> <li>• Changes to 2020 Program Announcement</li> </ul> <p>Daryll reported that 2016-17 reports are coming in. We are updating data provider pages based on these reports and other information. Once these are completed, we will contact the data providers and ask them to check the updates.</p> <p>FY19 Round 1 cooperative agreements started going out last week. The Program Board met last week to score the 2019 Round 2 submissions. They recommended funding 10 of the 11 submissions. 1 new data provider is among them.</p> <p>Re: FY2020, the DOI Clearance form for the Program Announcement was approved. The 202 announcement is planned for mid-September with a closing date near the end of December.</p> <p><b>Expected Outcome: Information Exchange</b></p>	Daryll
12:40 P	<p>Status Report: NGWMN Portal Maintenance and Development</p> <ul style="list-style-type: none"> <li>• Status of ongoing work</li> <li>• Upcoming work</li> <li>• Demo of new portal feature and request for feedback <a href="https://cida-test.er.usgs.gov/ngwmn/index.jsp">https://cida-test.er.usgs.gov/ngwmn/index.jsp</a></li> </ul> <p>Alice reported the portal progress. They continue to work on the statistics features. There are some sites that are not working because the data are</p>	Candice/Alice

	<p>greater than 406 days old. Some discussion ensued, but we had limited time to discuss. So Alice took an action item to come up with a list of sites with this issue. She agreed to come up with a small tutorial with a list of questions for the SOGW to consider at a future meeting.</p> <p>David W. mentioned that water use is an important issue for the community, and for the SOGW. We've discussed how we might incorporate that into the NGWMN portal. This also needs further discussion.</p> <p><b>Expected Outcome: Information Exchange: Recommend approach.</b></p>	
12:50P	<p>Quick Check-in: SOGW Workgroups</p> <ul style="list-style-type: none"> <li>GW Quantity/Use (Daryll)</li> </ul> <p>Daryll expects tom have some additional information for the August call.</p> <ul style="list-style-type: none"> <li>Groundwater/Surface Water Exchange (Tim/Mary/Kara)</li> </ul> <p>Nothing to report.</p> <ul style="list-style-type: none"> <li>Citizen Science Groundwater Levels or Quality (Bill)</li> </ul> <p>Nothing to report.</p> <ul style="list-style-type: none"> <li>GW Modeling (Bill/Bob)</li> </ul> <p>Bill summarized the plans for a USGS-led 1-hour session at NGWA GW Week to (a) present upcoming development and plans, and (b) solicit input from the user community on groundwater modeling capabilities/needs for MODFLOW and other USGS products. We hope to have the GW Modeling WG as a key part of this session to lead (b).</p> <p><b>Expected Outcome: Information Exchange</b></p>	WG Leads
12:52P	<p>Future Agenda Items</p> <ul style="list-style-type: none"> <li>August: Secondary Hydrogeologic Regions of the Conterminous United States (USGS) – Ken Belitz, USGS</li> <li>Other suggestions/needs?</li> </ul> <p><b>Expected Outcome: Information Exchange</b></p>	Bill
12:55 P	<p><b>Outreach Report</b></p> <p>Upcoming Outreach:</p> <ul style="list-style-type: none"> <li>AASG Annual Meeting Recap, Butte, Montana, June 10-14, 2019</li> <li>GWPC Annual Forum, September 15-17, 2019, Oklahoma City, OK</li> <li>Groundwater Week, December 3-5, 2019 Las Vegas, NV</li> </ul> <p>Other past or upcoming events to share?</p>	<p>Bill</p> <p>David W. Mary</p> <p>Bill</p>
	<p><b>Adjourn</b></p>	
1:00 P	<p>Next Meeting—Monday, August 19, 2019</p>	Bill

<b>Status of New Directions SOGW Workgroups</b>		
<b>Group topic</b>	<b>Group lead</b>	<b>Group status</b>
GW Quantity and Usage	Daryll Pope	Pending ACWI approval; may adjust based on future Subcommittee? The group is not interested in playing

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Attachment 1

		a role in citizen science, however it will work to ensure groundwater in a part of the conversation in water use discussions. They will also provide advice on groundwater use data collection.
Citizen Science	Bill Cunningham	Pending ACWI approval; initial stages. While the federal government can play an important role in “intellectual infrastructure” this is predominantly a local topic. The group will keep in touch with the NWQMC’s voluntary monitoring group.
GW/SW Interaction	Tim Parker	Pending ACWI approval; have had initial calls. Discussed educational importance and the importance of mapping or overlays to better demonstrate a connection. Groundwater dependent ecosystems. Terminology was also discussed in determining groundwater’s interest in surface water. Encourage interagency collaboration.
GW Modeling	Bill Cunningham/Bob Schreiber	Pending ACWI approval; still seeking volunteers (Cunningham, Schreiber, Job, Davis, Nicholson, USGS staff...). Strawman charter started. Coordination with NGWA and others is ongoing. WG can influence federal model development and applications, and play a role in enhancing communication between modelers and others.
Outreach?		