

# Community Advisory Committee for Water Prediction (CAC-WP)

## Inaugural Meeting

Tuesday, January 30 – Thursday, February 1, 2018

### Monday Evening: Committee Dinner

6:30 – 8:00 Dinner at Jim 'N Nick's BBQ Restaurant (optional)

### Tuesday Morning: Introduction and Background

8:00 – 8:30 Breakfast (provided on-site)

8:30 – 8:35 Host Welcome and Review of Local Logistics (Graziano)

8:35 – 9:30 Introductions (2-minutes each – brief background, interest, area of expertise)

- Office of Water Prediction Principals (Graziano, Clark)
- UCAR Principals (Kuo)
- CAC-WP Co-Chairs (Cline, Maidment)
- Committee Members

9:30 – 9:45 Review of Committee Charter, Expectations and Boundaries (Cline/Maidment)

9:45 – 10:15 Overview of NWS Office of Water Prediction – Context, Vision, Goals (Graziano)

- Baseline context of NWS Water Prediction – last 20 years
- Findings and Recommendations of Academy of Sciences Study
- Rationale and Intent of National Water Center
- Current status, plans and goals

10:15 – 10:30 Break

10:30 – 11:30 Overview of National Water Model Implementation (Clark, Gochis)

- Provide committee with common baseline understanding of what the NWM is, how it's operated, known limitations, performance to date, and development activities currently underway or planned

11:30 – 12:00 Q&A – Committee Questions for Graziano/Clark

12:00 – 1:30 Lunch (Provided on-site) and tour of National Water Center

## Tuesday Afternoon: Enhancing Impact-Based Decision Support Services (IDSS)

- 1:30 – 2:00 Overview: Concept of IDSS – What is it, how is NWS pursuing it, and what are the hoped-for outcomes? (Graziano)
- 2:00 – 3:30 Forward-looking conceptual discussion on what water resources IDSS products and services could/should look like in 5-10 years, in the context of evolving the National Water Center and National Water Model, as pertains to Federal, Academia, and Private sectors.
- 3:30 – 3:45 Break
- 3:45 – 5:00 Practical discussion on approaches to integrating the broad spectrum and volume of water resources and related geospatial information for new product development and enhanced IDSS.
- 5:00 Adjourn for Day
- 5:00 – 6:00 Social Gathering with NWC staff in the Atrium (light refreshments provided)

## Wednesday Morning: Implications of Enhanced IDSS for Modeling and Observations

- 8:00 – 8:30 Breakfast (provided on-site)
- 8:30 – 10:15 Discussion on model development needed to attain IDSS goals, focusing on improvements to representation of physical and anthropogenic processes, and on optimizing use of physiographic data sets such as terrain data, stream networks, land use and land cover data, soils data, reservoir characteristics, and other relevant data sets.
- 10:15 – 10:30 Break
- 10:30 – 12:00 Discussion on optimizing use of in situ and remotely sensed observations for data assimilation and model validation.
- 12:00 – 1:30 Lunch (on your own)

## Wednesday Afternoon: Computational Environment and Community Development

- 1:30 – 2:00 Overview of current NWM operational and development computational environments, planned enhancements, and anticipated needs (Clark)

- 2:00 – 3:30 Discussion on establishment of a community developmental testbed and associated governance, focused on what is needed from federal, academic, and private sector perspectives; identification of successful models/examples; and the role of standards (e.g. Earth System Modeling Framework) in enabling community development
- 3:30 – 3:45 Break
- 3:45 – 5:00 Discussion of how operational, development, and community testbed computational environments could/should evolve to address multiple objectives.
- 5:00 Adjourn for Day

Charge for next Morning: Each committee member should assemble a couple of charts summarizing the highlights of what they think needs focus.

- 5:00 – 6:00 Happy Hour at Loosa Brews (Dinner on own)

#### Thursday Morning: Synthesis and Recommendations

- 8:00 – 8:30 Breakfast (provided on-site)
- 8:30 – 8:45 Recap of major discussions
- 8:45 – 10:15 Report out of recommendations
- 10:15 – 10:30 Break
- 10:30 – 12:00 Synthesis of recommendations, by Federal, Academia, Private Sector
- 12:00 – 1:00 Lunch (provided on-site) and report out
- 1:00 Adjourn

## CAC-WP Committee

Category	Name	Organization
<b>Federal Agencies</b>	Cline, Don (Co-Chair)	USGS
	Farthing, Matthew	USACE - ERDC
	Lesmes, David	DOE
	Longenecker, Gene	FEMA
	Moglen, Glenn	USDA
	Nelson, Jonathon	USGS
	Torgersen, Tom (Ex Officio Liaison)	NSF
	Young, Dwane	EPA
<b>Academia</b>	Bales, Jared (Ex Officio Liaison)	CUAHSI
	Barros, Ana	Duke University
	Dawson, Clint	University of Texas - Austin
	Fan Reinfelder, Ying	Rutgers University
	Foufoulou Giorgio, Efi	UC Irvine
	Hooper, Richard	Tufts University
	Maidment, David (Co-Chair)	University of Texas - Austin
	Mandli, Kyle	Columbia University
	Rasmussen, Roy (Ex Officio Liaison)	NCAR
	Tarboton, David	Utah State University
<b>NGO</b>	Mesheli, Ehab	Water Institute of the Gulf
<b>Private Sector</b>	Ables, Matthew	Kisters North America
	Kopp, Steve	ESRI
	Nimmich, Joe	Booze Allen Hamilton
	Tolle, Kristin	Microsoft Research
<b>UCAR</b>	Kuo, Bill	UCAR