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Interagency Collaborative for Environmental Modeling and Monitoring (ICEMM)

Annual Public Meeting: April 24 - 25, 2018

U.S. Nuclear Regulatory Commission, Office of Nuclear Regulatory Research,
11555 Rockville Pike, Rockville, MD, Room TWFN-2B3

Theme: ***Monitoring and Model Data Fusion***

April 24, 2018

08:15 a.m. ***Registration at the Visitors' Entrance at 11555 Rockville Pike, Rockville, MD***

09:00 ***Welcome and Opening Remarks*** **……. Michael Weber (Director of Nuclear Regulatory Research, U.S. NRC)**
Brenda Rashleigh (EPA, ICEMM Chair)
Thomas Nicholson (NRC, Host)

09:15 ***Keynote Speaker ……*** **Pierre Glynn (Water Cycle Branch Chief, USGS)**

- From Data to Decisions: Framing the Science and Policy of Coupled Human-Natural Systems

10:15 **Break**

10:30 ***Data Innovation ……*** Invited Speakers

- Data available from Ambient Water Quality Monitoring Programs …**Duane Young (EPA)**
- CUAHSI's Services to Enable Data Fusion …….. **Tony Castronova (CUAHSI)**
- General Discussion and Q&A on Monitoring and Data (15 minutes)

11:45 **Lunch**

12:30 p.m. ***Keynote Speaker ……*** **Don Cline (Associate Director for Water, USGS)**

- Water Prediction and the National Water Model

1:15 ***Integration of Models and Data ……*** Invited Speakers

- Envisioning an Earth Systems Modeling Infrastructure……**Tom Torgersen (NSF)**
- Building a Cyberinfrastructure to enable mechanistic modeling of watershed systems ……... **David Lesmes (DOE)**
- Modeling in the U.S. Global Change Research Program ……. **Jennifer Saleem-Arrigo (USGCRP)**
- General Discussion and Q&A on Modeling Frameworks and Infrastructure (30 minutes)

3:15 **Break**

3:30 Panel Discussion on ***Monitoring and Model Data Fusion*** and the three session topics:

- Topics: **Science for Decisions; Data Innovation; Integration of Models and Data**
- Panel (Moderators: Tom Nicholson (NRC) and Pat Deliman (USACE):
  - Panel member: Pierre Glynn (USGS, ICEMM Vice-Chair)
  - Panel member: Duane Young (EPA)
  - Panel member: Tony Castronova (CUAHSI)
  - Panel member: Don Cline (USGS)
  - Panel member: Tom Torgersen (NSF)
  - Panel member: David Lesmes (DOE)
  - Panel member: Jennifer Saleem-Arrigo (USGCRP)

5:00 p.m. **Adjourn**

April 25, 2018

8:15 a.m.	***Registration at the Visitors' Entrance at 11555 Rockville Pike, Rockville, MD***
09:00	Review Meeting Agenda & First Day Summary ….. **Brenda Rashleigh and Pierre Glynn**
09:15	Presentations by ICEMM Agencies on Monitoring and Model Data Fusion • Environmental Modeling and Monitoring for Risk-Informed Performance-Based Assessments …… **Tom Nicholson and George Alexander (NRC)** • Optimization of Ground-Water Modeling Strategy at the Savannah River Site F-Area Using ASCEM …..…. **Carol Eddy-Dilek (DOE-Savannah River National Laboratory)** • Discussion and Demonstration of the Watershed Assessment Tool (WAT) for Water Quality … **Dr. Todd Steissberg (U.S. Army Corps of Engineers/Hydrologic Engineering Center)**
10:30	**Break**
11:00	Group Work on Model/Data Fusion Vision Document ……. All ICEMM Agencies
12:00	**Lunch**

1:00 p.m.	*Working Group Reports/Discussions* …… Working Group Chairs
	• ***WG1 Integrated Monitoring and Modeling***
	  o Ming Zhu (DOE), George Alexander (NRC)
	• ***WG2 Data Assimilation, Uncertainty Assessment and Environmental Model Confirmation***
	  o Tom Nicholson (NRC), Mary Hill (University of Kansas)
	• ***WG 3 Forecasting of Ecosystem Functions and Services***
	  o Pat Deliman (USACE), Brenda Rashleigh (EPA), Ken Bagstad (USGS)
	• ***WG4 Surface Water and Watershed Water Quality Modeling***
	  o Billy Johnson (USACE)

2:30	**Break**
3:00	***Steering Committee Business Meeting*** **…….…… All Agencies (ICEMM)**
4:00	***Questions from the Public***
4:30	**End**

Please register for the ICEMM Annual Public Meeting on April 24 - 25, 2018 beginning on April 24, 2018 @ 9:00 a.m. EDT at: https://attendee.gotowebinar.com/register/7145569228250991363

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After registering, you will receive a confirmation email containing information about joining the webinar.