

Interagency Collaborative for Environmental Modeling and Monitoring

Description: A group to continue and strengthen a framework for facilitating cooperation and coordination among Federal agencies in research and development of multimedia environmental models, software and related databases.

Point Of Contact: Pierre Glynn, pglynn@usgs.gov



The Interagency Collaborative for Environmental Modeling and Monitoring (ICEMM) is a U.S. federal government group chartered through a [Memorandum of Understanding](#) that includes six federal agencies. The purpose of ICEMM is to continue and strengthen a framework for facilitating cooperation and coordination among Federal agencies in research and development of multimedia environmental models, software and related databases. Multimedia model development and simulation supports interagency interests in risk assessment, uncertainty analyses, water supply issues, and contaminant transport.

Contact: Pierre Glynn, pglynn@usgs.gov

Participating Agencies

- [U.S. Nuclear Regulatory Commission](#), Office of Nuclear Regulatory Research
- U.S. Department of Defense, Army Corps of Engineers, [Engineer Research and Development Center](#)
- U.S. Department of Energy, [Office of Environmental Management](#)
- U.S. Department of the Interior, [U.S. Geological Survey](#)
- U.S. Environmental Protection Agency, [Office of Research and Development](#)
- National Science Foundation, [Geoscience Directorate](#)

ICEMM Public Meetings

2018 Meeting: [Rockville, MD](#), *Theme: Monitoring and Modeling Data Fusion*

2018 presentations and links: EPA ([ICEMM introduction](#): Rashleigh), USGS ([From Data to Decisions](#): Glynn), CUAHSI ([Services for Data Fusion](#): Castronova), USGS ([Earth Intelligence](#): Cline), NSF ([Terrestrial Systems Modeling](#): Torgersen), DOE/OBER ([Cyberinfrastructure for Mechanistic Modeling](#): Lesmes), USGCRP ([Watercycle modeling and monitoring coordination](#): Saleem-Arrigo), USNRC ([Risk-informed assessments](#): Nicholson and Esh), SNRL ([Optimization of groundwater monitoring](#), Eddy-Dilek & Wainwright), USACE ([Integrated water quality modeling](#), Steissberg), NSF ([Remote sensing: beyond GRACE](#), Venkat Lakshmi), ICEMM WG1 report ([Integrated Monitoring & Modeling](#), Ming Zhu, DOE), ICEMM WG2 report ([Data Assimilation, Uncertainty Assessment, and Environmental Model Confirmation](#), Thomas Nicholson, USNRC), ICEMM WG3 report ([Ecosystem Functions and Services](#), Pat Deliman, USACE), ICEMM WG4 report ([Surface Water and Watershed Water Quality Modeling](#), Billy Johnson, USACE).

2016 Meeting: Washington, DC. *Theme: Interagency Collaboration for Modelling and Monitoring*

Presentations: [EPA](#), [DOE](#), [ACE](#), [NRC](#), [USGS](#), [Water Modeling Workgroup](#), [Data Assimilation Workgroup](#), [Integrated Modeling and Monitoring Workgroup](#)

2015 Meeting: Davis, CA *Theme: Environmental Modeling for Complex Decision Analysis*

2014 Meeting: Baltimore, MD *Theme: Environmental Modeling in the Chesapeake Bay Watershed and Receiving Waters*

Workgroups

Watershed Modeling

Data Assimilation -- [Webinar on Big Data and Data Assimilation: Kumar Presentation](#), [Schaeffer Presentation](#)

Integrated Modeling and Monitoring

Ecosystem Functions and Services

Minutes of ICEMM Calls

October 25 2018 call ([ICEMM-call-minutes-Oct-25.pdf](#)).

Links & Upcoming Conferences

[International Environmental Modelling & Software Society \(IEMSS\)](#) – Conference 24-28 June 2018, Fort Collins, Colorado USA

[International Society for Ecological Modelling \(ISEM\)](#) – Conference 27-21 September 2017, Jeju, Korea

Resources



ML13281A407_20...Fact_Sheet.pdf



ISCMEM MOU 2016 - signed.pdf