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.

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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. 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: Torgerson), DOE/BER (Cyberinfrastructure for Mechanistic Modeling: Lesmes), USGCRR (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


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

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ISCMEM MOU 2016 - signed.pdf