

## Seminar

# Flood frequency issues in a changing climate – a regulatory agency perspective

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Seminar at noon on Wednesday, August 10<sup>th</sup> in LILY 2-425



**Abstract:** Average annual flood damages in the U.S. are currently estimated at over \$5 billion per year. Effects of floods include damaged structures, epidemics and waterborne diseases, and human casualties, and also agricultural losses. To manage our exposure to these natural hazard risks, it is critical to determine the frequency and magnitude of both precipitation events and on-the-ground flooding. This task is particularly challenging in a complex and changing hydro-climatic system. The seminar will address several climate-change-related issues in the framework of standard flood frequency calculations adopted by FEMA.

**Short Bio:** Dr. Momcilo Markus is a Senior Research Hydrologist with the Illinois State Water Survey, Prairie Research Institute at the University of Illinois at Urbana-Champaign. He is also an Adjunct Associate Professor at the Department of Natural Resources and Environmental Sciences, Assistant Professor at Department of Agricultural and Biological Engineering and Faculty Fellow of the National Center for Supercomputing Applications, all at the University of Illinois at Urbana-Champaign. Dr. Markus has significant experience in research, industry, and teaching, dealing with water issues in Europe and the United States. His current work includes hydrologic frequency analysis, evaluation of the effects of climate change on hydrologic extremes, predictability of nutrient loads, and application of data mining in hydrologic processes.