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COLLOQUIUM SERIES

**Freshwater Resilience by Design:
Water investment strategies for a
changing and uncertain future**
- Prof. Casey Brown

WHEN

November 16th 2018
1:00 PM - 2:00 PM

WHERE

IPB Room 203

LIVE STREAM

<http://s.uconn.edu/ipb203webex>

CONTACT

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ABSTRACT

Freshwater Resilience by Design: Water investment strategies for a changing and uncertain future

Water managers, planners and investors know an uncomfortable truth. Demands on water resources are growing while future water supplies are increasingly variable and uncertain. Yet still today, water managers around the world cling to the hope that their traditional planning approaches, which assume future water resources will be the same as the past, are adequate for future challenges. Evidence around the world reveals the fragility of the resulting designs, with major cities citing water as a key concern, a third of river basins and aquifers severely water stressed and 3.9 billion people projected to be living in water stressed regions by 2040. An alternative hope is to develop and operationalize the concept of freshwater resilience as a successor to traditional water planning approaches. This presentation will describe a partnership for developing and implementing such an approach in partnership with the World Bank, arguably the most influential water investors in the world. Innovative data science-based technology for designing water strategies that embody freshwater resilience will be presented, as well as early progress in pilots addressing the Mexico City water security challenge and development planning in Tanzania.

BIOGRAPHY

Dr. Casey Brown is an internationally recognized expert in water resources systems analysis and climate risk assessment. Dr. Brown is Professor of Civil and Environmental Engineering at the University of Massachusetts at Amherst and Adjunct Associate Research Scientist at Columbia University. He has a Ph.D. in Environmental Engineering from Harvard University and headed the water team at the International Research Institute (IRI) for Climate and Society at Columbia University. His research focuses on climate and water resources, and he has worked extensively on projects around the world in this regard. He has a number of awards to his credit, including the Presidential Early Career Award for Science and Engineering, the National Science Foundation CAREER award, the Huber Research Prize from the American Society of Civil Engineers and the Climate Science Award from the California Department of Water Resources.