



Dr. Mekonnen's interests are understanding and prediction of hydrological fluxes on a range of spatial and temporal scales, advancing the use of satellite observations for water resource applications, uncertainty analysis of hydrological estimations and forecasts, transboundary river basin management, water resource management and governance in developing countries, and impact of hydrological and climate changes on vector-borne diseases.

ENVIRONMENTAL ENGINEERING SEMINAR SERIES

FRIDAY, MARCH 13TH FROM 1:30PM-2:20PM

MCDONNELL DOUGLAS AUDITORIUM (MDEA)

Uncertainty Assessment of Satellite Rainfall Estimates and Hydrologic Forecasts

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Abstract:

Uncertainty assessment of satellite rainfall estimates and hydrologic forecasts is critical in water resource planning, development and management. In this presentation, I will talk about (1) accuracy of satellite rainfall estimates, and approaches of accuracy assessment, and (2) statistical modeling of errors in satellite rainfall estimates and hydrologic forecasts. Results will be presented using case studies of watersheds in the U.S. and Africa.