

Friday Forum

Friday,
March 11, 2016
10:00 am to 11:30 am



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Mapping extreme rainfall statistics for Canada

Climate change is expected to increase the frequency and intensity of extreme rainfall events, affecting rainfall intensity-duration-frequency (IDF) curve information used in the design, maintenance and operation of water infrastructure in Canada. Presented in this lecture are analyses of precipitation data from 567 Environment Canada hydro-meteorological stations using the IDF_CC tool. Results for the year 2100 based on the Canadian climate model and an ensemble of 22 GCMs were generated. A spatial interpolation method was used to produce Canadian precipitation maps for events of various return periods. Results based on the Canadian climate model indicate a reduction in extreme precipitation in central regions of Canada and increases in other regions. Relative to the ensemble approach, the Canadian climate model results (a) suggest more spatial variability in change of IDFs, and (b) the ensemble approach generated generally lower values than the Canadian climate model.

Dr. Simonovic has extensive research, teaching and consulting experience in water resources systems engineering. He is teaching courses in water resources and civil engineering systems. He actively works for national and international professional organizations. Dr. Simonovic's primary research interest focuses on the application of systems approach to management of complex water and environmental systems. Most of his work is related to the integration of risk, reliability, and uncertainty in hydrology and water resources management. He has received a number of awards for excellence in teaching, research and outreach. He has published over 450 professional publications and three major textbooks. He has been inducted to the Canadian Academy of Engineering in June of 2013.

Where: ICLR, 20 Richmond Street East, Suite 210, Toronto (10:00 am to 11:30 am)

RSVP: Tracy Waddington (twaddington@iclr.org)

Friday Forum

ICLR seeks to strengthen the insurance community's awareness of the risks associated with natural hazards. Each month we will host an informal discussion of current research and industry issues related to natural hazards. **Member companies can send two participants at no cost.** A fee of \$75.00 will apply for additional attendees. The cost for non-members is \$150.00 per person for each forum. Business casual dress.

2016 Friday Forum Series

Flooding/Climate Change	Mar 11	Slobodan Simonovic, Western University
Hail Damage	April 8	Tanya Brown, IIBHS
Hurricane/Wildfire Forecast	May 13	Webcast only
Cat Models	June 17	Kunal Joarder, AIR Worldwide
Extreme Rainfall	Sept 16	Francis Zwiers