



FloodNet Annual General Meeting 2016 Scientific Program

NSERC Canadian FloodNet 2nd Annual General Meeting: DAY 1-19 September 2016 Agenda	
Registration and Breakfast D1: 8:00-8:30 AM	Breakfast and Registration in Toscana A <ul style="list-style-type: none"> All participants register and enjoy breakfast
D1: 8:30-8:45 AM	Welcome, Introduction and Network Update Dr. Paulin Coulibaly, FloodNet Scientific Director
D1: 8:45-8:50 AM	Welcome Words from FloodNet Board of Directors Dr. Alain Pietroniro, Chair of FloodNet Board of Directors
SESSION 1: THEME 1 - FLOOD REGIMES IN CANADA: LEARNING FROM THE PAST AND PREPARING FOR THE FUTURE (Chairs: Dr. Wazneh & Ms. Scheepers)	
Project 1-1 D.H. Burn D1: 8:50-9:20 AM	Update of Current Flood and Storm Quantiles Project Update <i>D. H. Burn</i> Investigating Techniques for Flood Quantile Estimation in Canada <i>S. M. Zadeh & D. H. Burn</i>
Project 1-2 F. Ashkar D1: 9:20-9:50 AM	Examination of Spatial and Temporal Variation of Extreme Events Project Update <i>F. Ashkar & D.H. Burn</i> New Results on the Discrimination Between Statistical Distributions for Hydrological Frequency Analysis <i>I. Ba & F. Ashkar</i>
D1: 9:50-10:20 AM	Coffee Break
Project 1-3 A. Arain D1: 10:20-10:50 AM	Analysis and Applicability of Future Extreme Events in Regional and Local Context Spatial and Temporal Climate Trends in Canada <i>H. Wazneh, M.A. Arain & P. Coulibaly</i> Past and Future Evolution of Streamflow in Southern Ontario <i>O. Champagne, M.A. Arain & P. Coulibaly</i>
Project 1-4 V. Nguyen D1: 10:50-11:20 AM	Development of New Methods for Updating IDF Curves in Canada Summary of Research Progress and Further Works <i>V.T.V. Nguyen</i> SMExRain: A Decision Supports Tools for Construction of IDF Relations for Current Climate <i>T.H. Nguyen & V.T.V. Nguyen</i> SDExRain: A Decision Support Tool for Assessing the Climate Change Impacts on IDF Relations <i>M.H. Yeo & V.T.V. Nguyen</i> Overview of Stochastic Modeling of Extreme Rainfall Processes <i>S. El-Outayek & V.T.V. Nguyen</i>

Project 2-1* B. Tolson D1: 11:20-11:50 AM	Comparison of Ensemble Forecast Methods for Operational Streamflow Forecasting Based on a Single Model Project Update <i>Bryan Tolson</i> Forecasting in Madawaska Watershed Considering Parameter Uncertainty <i>H. Liu & B. Tolson</i>
D1: 11:50-12:50 PM	Lunch
D1: 12:50-1:20 PM	KEYNOTE ADDRESS Challenges of Forecasting the Red River of the North <i>Dr. Pedro Restrepo</i>
SESSION 2: THEME 2 – QUANTIFYING AND REDUCING THE PREDICTIVE UNCERTAINTY OF FLOODS (Chair: Dr. Tilmant)	
Project 1-5† A. Binns D1: 1:20-1:50 PM	Spatial Changes to Flood Prone Areas in Urban Environments Project Update <i>A. Binns & T. Kokas</i>
Project 2-2 F. Anctil D1: 1:50-2:20 PM	Comparison of Ensemble Forecast Methods for Operational Streamflow Forecasting Based on Multiple Models Project Update <i>F. Anctil</i> Investigating Quality and Value of Dissimilar Streamflow Forecasting Systems <i>A. Thiboult, F. Anctil, & M.-H. Ramos</i> Hydrological evaluation of the Canadian meteorological ensemble reforecast product <i>M. Abaza & F. Anctil</i>
D1: 2:20-2:50 PM	Coffee Break
Project 2-4 F. Anctil D1: 2:50-3:20 PM	Evaluation of Flood Warning Based on Hydraulic Model with Assimilation and Hydrological Ensemble Forecasts Project Update <i>F. Anctil & A. Thiboult</i> Ensemble Forecasting of Water Levels in Rivers with Data Assimilation: Application to Chaudière River in Quebec <i>M. A. Bessar & F. Anctil</i>
Project 2-5 A. Tilmant D1: 3:20-3:35 PM	Real-time Reservoir Operation Based on a Combination of Long-term and Short-term Optimization and Hydrological Ensemble Forecasts Project Update <i>A. Tilmant</i>

SESSION 3a: DEVELOPMENT OF CANADIAN ADAPTIVE FLOOD FORECASTING AND EARLY WARNING SYSTEM (CAFFEWS) (Chairs: Dr. Keum & Dr. Razavi)	
Project 3-1 P. Rasmussen D1: 3:35-4:05 PM	Evaluation of Flood Forecasting and Warning Systems Across Canada Overview of River Flood Forecasting Practices in Canada <i>S. Jha, Z. Z. Aliabadi & P. Rasmussen</i>
Project 3-2 A. Berg D1: 4:05-4:35 AM	Real-time Spatial Information Evaluation and Processing Project Update <i>A. Berg</i> A Relationship Between Satellite Derived Soil Moisture Anomalies and Watershed Runoff Ratios over Canadian Watersheds <i>E. Ueckermann & A. Berg</i>
SNEI K. Kornelsen D1: 4:35-5:00 PM	NSERC FloodNet Strategic Network Enhancement Initiative <i>K. C. Kornelsen & V. Smakhtin</i>
SESSION P1: NSERC CANADIAN FLOODNET POSTERS (Chairs: Dr. Jha & Mr. Leach)	
D1: 5:00-6:30 PM	Poster Session P1 And Networking
D1: 6:30-9:00 PM	Networking Dinner

* Project 2-1 is part of Theme 2. Presentation timing is due to a scheduling conflict.

† Project 1-5 is part of Theme 1. Presentation timing is due to a scheduling conflict.

NSERC Canadian FloodNet 2nd Annual General Meeting: DAY 2 – 20 September 2016 Agenda	
Breakfast D2: 8:00-9:00 AM	Breakfast (All Participants) Board of Directors Meeting (York Room) Partner Advisory Committee Meeting (MacKenzie Room)
SESSION 3b: DEVELOPMENT OF CANADIAN ADAPTIVE FLOOD FORECASTING AND EARLY WARNING SYSTEM (CAFFEWS) (Chairs: Dr. Keum & Dr. Razavi)	
Project 3-3 W. Zhuang D2: 9:00-9:30 AM	Enhanced Information Communication Systems Project Update <i>W. Song</i> Joint Scheduling and Transmission Power Control in Wireless Ad Hoc Networks <i>K. R. Malekshan & W. Zhuang</i>
Project 3-4 P. Coulibaly D2: 9:30-10:00 AM	Development of Canadian Adaptive Flood Forecasting and Early Warning System (CAFFEWS) Project Update <i>P. Coulibaly</i> Uncertainty Estimation through Bayesian Forecasting System (BFS): An Application to Humber River Watershed in Southern Ontario, Canada <i>S. Han & P. Coulibaly</i>
D2: 10:00-10:30 AM	Coffee Break

SESSION 4: THEME 4 – RISK ANALYSIS OF PHYSICAL, SOCIO-ECONOMIC AND ENVIRONMENTAL IMPACTS OF FLOODS (Chairs: Dr. Jha & Ms. D’Amario)	
Project 4-1 M. Xenopoulos D2: 10:30-11:00 AM	Role of Floods on Aquatic Ecosystem Condition Environmental Effects of Flooding <i>M. Xenopoulos</i> Factors Influencing Stream Nutrient Concentration-Discharge Relationships in Ontario and Manitoba Streams <i>S.C. D’Amario, H. F. Wilson, R. Metcalfe, M.A. Xenopoulos</i>
Project 4-3 A. Elshorbagy D2: 11:00-11:30 AM	Modelling-based Integrated Assessment on Flood Impacts on Urban and Rural Water Resources Systems Project Update <i>A. Elshorbagy</i> Development of a Suitable Hydrological Model for Streamflow Simulation in Canadian Prairie Watershed <i>M.K. Hussein & A. Elshorbagy</i>
Project 4-4 A. Elshorbagy D2: 11:30-12:00 AM	Flood Risk Analysis and its Utility for Management Decisions Framework for National Flood Risk Assessment for Canada <i>A. Elshorbagy</i> Hydraulic Modeling of Moose Jaw River for Flood Risk Assessment <i>R. Bharath & A. Elshorbagy</i>
Project 4-5 N. Yiannakoulis D2: 12:00-12:15 PM	Assessing and Planning for the Socio-Economic Effects of Floods Using Experimental Games to Understand Flood Decision Making <i>J. Gordon & N. Yiannakoulis</i>
D2: 12:15-1:15 PM	Lunch
Working Group Meetings D2: 1:15-2:30 PM	Working Group Meetings Working Group 2 & 3 (Themes 2 & 3) Working Group 1 (Theme 1) Working Group 4 (Theme 4)
D2: 2:30-3:00 PM	Coffee Break
D2: 3:00-3:45 PM	ISAP & PAC Feedback (Chairs: Dr. Singh & Dr. Fortin)
D2: 3:45-4:00 PM	Closing Remarks (Dr. Pietroniro & Dr. Coulibaly)