

Welcome!

We're excited you've joined us for the 52nd meeting of this international group of water management modelers. Please enjoy the conference and we hope you find value in meeting and learning from your peers.

ICWMM Program

Visit www.icwmm.org for the mobile-friendly program, which includes abstracts and any last-minute program changes. Don't forget to vote for your favorite presentation. Online voting and comments available when you click on an abstract.

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Gala Dinner

Join your colleagues and new friends in Windsor Room A for dinner and drinks. The fun starts at **6:30PM on Wednesday**.

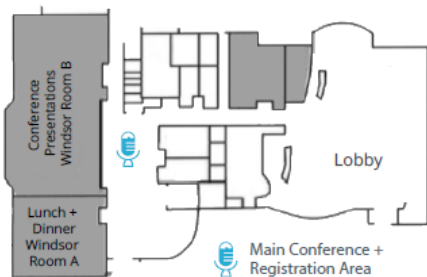
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Please complete your conference survey through the website. www.chiwater.com/survey/conference

Call for Editors and Reviewers

Would you like to join the JWMM editorial board or be a reviewer? Please email karen@chiwater.com and become apart of CHI's publishing team.

Map



ICWMM | Toronto, ON (Feb 27, 2019)

Conference Day 1 - Wednesday Morning Sessions 1 + 2

7:30AM	Breakfast + Registration
8:10AM	Welcome + Opening Remarks - Rob James, CHI

8:20AM	Moving beyond stormwater: Changing climate, changing minds Christine Zimmer, Credit Valley Conservation, ON, Canada
8:40AM	Improvements to HEC-RAS floodplain elevations in the Allen Creek and design of hydraulic improvements for flood relief using EPA SWMM v5: Case study from the Allen Creek in Ann Arbor, MI Nathan Zgnilec, OHM Advisors, MI, USA
9:00AM	Don Mills Channel – Advanced modeling and economic analysis of flood remediation in the City of Markham Steve Hollingworth, TMIG, ON, Canada, Rob Muir, Rob Grech, Kate Rothwell, City of Markham, ON, Canada and Karen Finney, CHI, ON, Canada
9:20AM	Snowmelt and rain-on-snow events: Is a simplified modeling approach possible? Gilles Rivard, Simon Deslauriers and Nicolas Gallant, Lasalle NHC, QC, Canada
9:40AM	Group Question Period

10:00AM	Break

10:30AM	Dynamically coupling enhanced 1-D sewer network and 2-D surface routing for urban drainage Hazem Gheith and Qiuli Lu, ARCADIS U.S., Inc, OH, USA
10:50AM	Evaluating TELEMAC2D modeling accuracy by comparing with UK benchmark study results Hailiang Shen, CHI, ON, Canada
11:10AM	Bill James SWMM network similarity score for machine learning classification Robert Dickinson, Innovyze Inc., FL, USA
11:30AM	Implementation of a dynamic innovative strategy to manage the winter pollution flows on the Paris-CDG airport platform Nelly Peyron, Hydropraxis, Montpellier, France and Jean-Yves Lepot, Sema Group, Paris, France
11:50AM	Evaluation of water diplomacy for restoration of a trans-boundary wetland Mohammad Ebrahim Banihabib and Sajad Najafi Marghmalek, University of Tehran, Tehran, Iran
12:10PM	Group Question Period

12:30PM	Lunch

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Conference Day 1 - Wednesday Afternoon Sessions 3 + 4

1:30PM	Flood risk in urban areas John Covey, Wood Group plc, KS, USA
1:50PM	Integrated urban flash flood modeling in hillside catchments Stefan Leitner, Gerald Krebs and Dirk Muschalla, Graz University of Technology, Graz, Austria
2:10PM	A contemporary approach to establishing watershed-scale criteria for flood control Aaron Farrell, Wood Group plc, ON, Canada, Dilnesaw Chekol, Toronto Region Conservation, ON, Canada and Michael Penney, Wood Group plc, ON, Canada
2:30PM	Investigation of low impact development practice effects in urbanized watersheds: Rain barrel Maryam Movahedinia, Tarbiat Modares University, Tehran, Iran and Fakhreddin Barakhasi, Mahab Ghodss Consulting Engineering Co., Tehran, Iran
2:50PM	Extending low impact development (LID) API support to PySWMM and OpenWaterAnalytics SWMM5 Jennifer Wu, Ruben Kertesz and Bryant McDonnell, EmNet, a Xylem brand, IN, USA

3:10PM	Group Question Period

3:30PM	Break

4:00PM	Parameterizing unit hydrographs to account for rainfall derived inflow and infiltration (RDII) for multiple land uses under tropical climate Ho Huu Loc, Kim Irvine, Nanyang Technological University, Singapore, Lloyd Chua, Deakin University, Australia and Song Ha Le, Surbana Jurong Pte Ltd, Singapore
4:20PM	Application of public access 2D hydrodynamic and distributed hydrological models for flood forecasting in ungauged basins Ahmad Shayeq Aziz, Ministry of Energy and Water, Herat, Afghanistan and Yuji Toda, Nagoya University, Nagoya, Japan
4:40PM	Keep calm and calibrate Sam Shamsi, A1 Applications, PA, USA
5:00PM	Optimizing reservoir operation to include sediment management: A new approach tested for the Roseires Dam, Blue Nile River Reem Digna, WSP, ON, Canada, Pieter van der Zaag, Yasir Mohamed, Stefan Uhlenbrook, IHE Delft Institute, The Netherlands and Mustafa Mukhtar, Stantec, ON, Canada
5:20PM	Using enhanced urban drainage modeling to prioritize green infrastructure efficiencies Hazem Gheith, Khaled Abdo and Qiuli Lu, ARCADIS U.S., Inc, OH, USA

5:40PM	Group Question Period

6:00PM	Closing Remarks

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Conference Day 2 - Thursday Morning Sessions 5 + 6

- 7:30AM Breakfast + Registration
8:10AM Welcome + Opening Remarks - CHI
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- 8:20AM **Regional stormwater BMPs**
Larry Tortuya, GHD, CA, USA
- 8:40AM **An ASCE-Inspired investigation of the model-dependent stormwater management benefits of retrofitted extended tree pits in Hamilton**
Robert Rawlins and Yiping Guo, McMaster University, ON, Canada
- 9:00AM **Evaluation of Etobicoke exfiltration system applications in the City of Barrie**
Parto Peyvandisnai, James Li and Darko Joksimovic, Ryerson University, ON, Canada
- 9:20AM **Case study: Assessing the performance of bioretention basins in an urban drainage system**
Julia Bond and Musandji Fuamba, Polytechnique Montreal, QC, Canada
- 9:40AM **Effectiveness of low impact development practices in flood attenuation**
Vali Ghorbanian, CIMA+, ON, Canada
- 10:00AM Group Question Period
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- 10:20AM Break
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- 10:50AM **Outline of a new computational engine for SWMM**
Ben Hodges, University of Texas at Austin, TX, USA, Charles Rowney, ACR, LCC., FL, USA and Ehsan Madadi-Kandjani, University of Texas at Austin, TX, USA
- 11:10AM **Surge analysis of OARS tunnel in Columbus, Ohio: Unsteady flow simulation and surge evaluation in rapid filling tunnel**
Hazem Gheith, Tiantian Xiang, ARCADIS U.S., Inc, OH, USA and Jose Vasconcelos, Auburn University, AL, USA
- 11:30AM **Continuity error comparison between SWMM 5.1 and SWMM 5.1 spatially discretized using quality assurance test cases**
Robson Pachaly, Federal University of Santa Maria, Brazil, Jose Vasconcelos, Auburn University, AL, USA, Daniel Allasia and Joao Bocchi, Federal University of Santa Maria, Brazil
- 11:50AM **An artificial intelligence predictive model for turbidity current concentration in reservoirs**
Sara Baghalian and Masoud Ghodssian, Tarbiat Modares University, Tehran, Iran
- 12:10PM Group Question Period
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- 12:30PM Lunch

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Conference Day 2 - Thursday Afternoon Sessions 7 + 8

- 1:30PM **Buried water infrastructure and artificial intelligence opportunities**
Ed McBean and Brett Snider, University of Guelph, ON, Canada
- 1:50PM **Evaluation of consequence of failure for water pipelines using surface water modeling**
Karl San Luis, Amin Ganjidoost and Craig Daly, Puretech, a Xylem brand, MD, USA
- 2:10PM **Understanding the climate change impacts on water supply security of Myponga Reservoir, Adelaide**
Phuong Do and Subhashini Wella Hewage, University of South Australia, South Australia, Australia
- 2:30PM **Assessing the impact of climate change using coupled downscale GCM with PCSWMM at operational level in Hengqin Island of Zhuhai, China**
Qingqing Yang, Zhengduo Bao and Nian She, Tsinghua University, Zhuhai, China
- 2:50PM Group Question Period
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- 3:10PM Break
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- 3:40PM **Using PCSWMM's SRTC tool to calibrate the time-area runoff hydrology in MIKE URBAN**
Suibling Liu, Jacobs, OH, USA
- 4:00PM **Multi-Event calibration versus single event calibration results in better interaction with design storms**
Ken Orié and Nina Caraway, McKim and Creed, NC, USA
- 4:20PM **Operation of the grand Ethiopian Renaissance Dam: Potential risks and mitigation measures**
Nourhan Abdelazim, Hesham Bekhit and Mohamed Allam, Cairo University, Cairo, Egypt
- 4:40PM **Systematic stormwater management: Getting the rainfall right**
Mike Gregory, CHI, ON, Canada
- 5:00PM Group Question Period
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- 5:20PM Awards, Wrap-up + Farewell

ICWMM 2019

SCHEDULE

2019

INTERNATIONAL CONFERENCE ON WATER MANAGEMENT MODELING

February 27 & 28
Toronto, Canada

