

Mohawk Watershed Symposium - 2018
23 March 2018, College Park, Union College, Schenectady NY

Oral session (College Park) - Registration and Badges required

8:00 AM 8:30 AM *Registration, Coffee, College Park*

8:30 AM 8:35 AM **Introductory Remarks**

Jackie Cockburn, MWS Co-Chair, University of Guelph

8:35 AM 8:50 AM **Factoring in virtual water to determine the real cost of products**

Ashraf Ghaly, Department of Engineering, Union College

8:50 AM 9:16 AM **Screening for agricultural and wastewater-derived micropollutants at the mouth of the Mohawk River - Invited**

Damian Helbling, Civil and Environmental Engineering, Cornell University

9:16 AM 9:31 AM **Efficacy of environmental DNA and traditional sampling methods to monitor the expansion of Round Goby in the Mohawk River-Barge Canal system**

Scott George, US Geological Survey, Water Science Center, Troy, NY

9:31 AM 9:57 AM **Current research on blueback herring in the Mohawk River - Invited**

Cara Ewell Hodkin, Dept of Environment & Forest Biology, SUNY College of Environmental Science & Forestry

9:57 AM 10:42 AM **COFFEE and POSTERS (see below for listing)**

10:42 AM 11:08 AM **Climate change, weathering the flood and supporting RiverSmart Communities - Invited**

Christine Hatch, Department of Geosciences, UMASS-Amherst

11:08 AM 11:34 AM **Ice jam flooding on the lower Mohawk River and the 2018 mid-winter ice jam event - Invited**

John I. Garver, Geology Department, Union College

11:34 AM 12:00 PM **Schenectady's historic Stockade district: options for flood mitigation - Invited**

Bill Nechamen, Nechamen Consulting Inc

12:00 PM 1:20 PM **- LUNCH and Poster Sessions - Lunch at College Park**

1:20 PM 1:46 PM **A spatial assessment of priority areas for conservation and climate adaptation in the Schoharie Creek Watershed - Invited**

Becky Shirer and Chris Zimmerman, The Nature Conservancy, Albany NY

1:46 PM 2:12 PM **In harm's way: community responses to Hurricane Irene and Tropical Storm Lee - Invited**

Ellen McHale, Utica College

2:12 PM 2:27 PM **Discover the Mohawk: Reconnecting our community with the river**

Leah Akins, ECOS: The Environmental Clearinghouse

2:27 PM 2:42 PM **Mohawk River water quality: Trends and observations of bacterial indicators during the summer of 2017**

Carolyn Rodak, Department of Engineering, SUNY Polytechnic Institute, Utica NY

2:42 PM 3:27 PM **COFFEE and POSTERS (see below for listing)**

3:27 PM 3:53 PM **Development of a water-quality model for the Mohawk River - Invited**

Thomas Suro, USGS New Jersey Water Science Center

3:53 PM 4:19 PM **Citizen science to community action in the Hudson River: A case study in protecting a river drinking water supply - Invited**

Dan Shapley, Riverkeeper

4:19 PM 4:45 PM **Working towards a swimmable, fishable, resilient Mohawk River Watershed: Updating the Mohawk River Basin Action Agenda for 2018 - Invited**

Alexander J. Smith & Katherine Czajkowski, NYS DEC, Mohawk River Basin Program

4:45 PM 4:55 PM **Concluding Remarks**

John I. Garver, MWS Co-Chair, Union College

5:00 PM 7:00 PM ***Symposium Reception College Park Hall Lobby, 5:00 - 7:00 PM***

**The lead or presenting author/s is/are listed in the schedule, for complete author listings and affiliations please refer to the abstract.*

Poster session (all day)

- P1** **Landslides and their potential for contributing to dam failure at the Blenheim/Gilboa pumped-storage power project**
H. Bartholomew, Dam Concerned Citizens, Middleburgh, NY
- P2** **Investigating the urban stream syndrome in the Mohawk Watershed around Schenectady, NY**
C. Bechtold, A. Verheyden, Geology Dept., Union College, Schenectady, NY
- P3** **Fort Plain Environmental Study Team: A community-based approach to science**
Fort Plain Environmental Team - Students: E. Abrams, M D'Arcangelis, T. Gifford, M. Hoffamn, J. Huang, Q. Jones, J. Kirby, W. Maginnis, P. Murphy, J. Reese, M. Stockwell, B. Thibodeau, M. Wintermute; Leaders: L. Elliott, K. Boose, B. McKeeby, J. McKeeby, M. McKeeby, & J. Perog
- P4** **Photogrammetric models from UAS mapping and ice thickness estimates of the 2018 mid-winter Ice Jam on the Mohawk River, NY**
J.I. Garver, E. Capovani, D. Pokrzywka, Geology Dept., Union College, Schenectady, NY
- P5** **Techniques to reduce water footprint and to curb its adverse effects**
A. Ghaly, Dept. of Engineering, Union College
- P6** **Is that E. coli or not? Unique fluorescent color in Colilert treated samples from the Mohawk River**
I. Gillette-Ferguson, E. Benton, J. Burton, L. Demera, E. Frost, A. Gieseler, T. Hotaling, N. Mazoff, S. Meaney, L. Meehan, N. Oukili, C. Peck, A. Shaw, J. Stanton, L. Wanits, C. Williams, Dept. of Natural Sciences and Mathematics, SUNY Cobleskill, Cobleskill, NY
- P7** **Forecasting of water discharge using atmospheric and hydrologic sensors to identify long-term high-risk periods in Herkimer County, NY**
I. Gogos, K. Shire, S. Lakeram, A. Marsellos, K. Tsakiri, Dept. of Geology, Environment, Sustainability, Hofstra University, Hempstead, NY
- P8** **Flood forecasting of water discharge at Freeman's Bridge in Schenectady, New York**
S. Lakeram, T. Plitnick, D. Chernoff, A. Marsellos, K. Tsakiri, Dept. of Geology, Environment, Sustainability, Hofstra University, Hempstead, NY
- P9** **Monitoring the Hudson and beyond with HRECOS: The Hudson River Environmental Conditions Observing System**
G. Lemley, Hudson River Estuary Program, NY State Dept. of Environmental Conservation/NEIWPCC, Albany, NY
- P10** **Reconstruction and flood simulation using GIS and Google Earth to determine the extent and damage of the January 14-15th 2018 ice jams on the Mohawk River in Schenectady, New York**
L. Mahoney, S. Roscoe, A. Marsellos, Dept. of Geology, Environment, Sustainability, Hofstra University, Hempstead, NY
- P11** **Multiple Flooding locations in Oneida County, NY in 2017: An approach to determine flood vulnerable sites using LiDAR in Geographical Information Systems (GIS) and flood simulations**
A. Rienzo, P. Weinstein, K. Mecca, A. Marsellos, Dept. of Geology, Environment, Sustainability, Hofstra University, Hempstead, NY
- P12** **Accumulation of microplastic particles in New York State tributaries**
A. Shimkus, J.A. Smith, Burnt Hills-Ballston Lake High School, Burnt Hills
- P13** **Microplastic pollution in the main channel of the Mohawk River: Final results of the 2016 sampling program**
J.A. Smith, J. Hodge, B. Kurtz, J.I. Garver, Geology Dept., Union College, Schenectady, NY
- P14** **A series of snap-shots: Data and observations from the Riverkeeper, SUNY Cobleskill, and SUNY Poly Mohawk River water quality project as it enters year four**
D. Sweeney, L. Wanits, E. Townsend, B. Brabetz, N. Law, C. Rodak, J. Epstein, J. Lipscomb, D. Shapley, Department of Natural Sciences and Mathematics, SUNY Cobleskill, Cobleskill, NY
- P15** **Using total coliforms, E. coli and Enterococcus bacteria as reporters for water quality along the North Chuctanunda Creek, a tributary of the Mohawk River**
L. Wanits, B. Brabetz, N. Law, Department of Natural Sciences and Mathematics, SUNY Cobleskill, Cobleskill, NY

**The lead or presenting author/s is/are listed in the schedule, for complete author listings and affiliations please refer to the abstract.*

5:00 PM 7:00 PM **Symposium Reception College Park Hall Lobby, 5:00 - 7:00 PM**
