



## *Flood Forecasting and Warning Current Challenges, and the new National Water Model (NWM)*

*What are some unique challenges to flood prediction in the Washington/Baltimore region? How can the use of "big data" and enhanced simulation and modeling functions improve weather forecasting and flood warning advisories? Find out more about the National Water Model, and how this tool is revolutionizing the way streamflow and other hydrologic information is being used for forecasting.*

**Thursday, February 23, 2017**

5:30 pm Registration and light dinner; 6:15 Presentations and Discussion; 7:30 Wrap Up

**Metropolitan Washington Council of Governments**

777 North Capitol Street, NE, Washington, DC. Training Center, 1<sup>st</sup> Floor <http://www.mwco.org/contact/directions/>

**Speakers: Jason Elliott, Brian Cosgrove**

**Jason Elliott** – Senior Service Hydrologist, the National Weather Service

Jason Elliott is the Senior Service Hydrologist at the National Weather Service Baltimore/Washington Forecast Office. In this role, Jason serves as the hydrology and flooding expert for a service area which includes 22 counties and 10 independent cities in northern Virginia, as well as the District of Columbia, much of Maryland, and the eastern West Virginia panhandle. Jason has held this position since November 2010. Previously, Jason was a meteorologist at National Weather Service offices in Huntsville, Alabama; Memphis, Tennessee; and Mobile, Alabama. Jason holds a Bachelor of Science in Geography and Meteorology from the University of South Alabama, and a Master of Education in Human Resource Education and Distance Learning from the University of Illinois, Urbana-Champaign.

**Brian Cosgrove** – Project Manager, the National Weather Service/OWP

Brian Cosgrove has worked at the National Weather Service (NWS) Office of Water Prediction (OWP) since 2008. He is the project manager for the National Water Model (NWM), leading the effort to implement enhanced versions of the NWS' first nationwide operational high resolution water resources forecasting system. Brian is involved in NWM service design, data dissemination and education outreach. He also serves as the liaison to the NWS National Centers for Environmental Prediction (NCEP) and conducts frequent coordination activities with partner agencies such as the Federal Emergency Management Agency, the US Geological Survey, the Army Corps of Engineers, the National Ocean Service, and other private, public and academic groups. Brian got his Master's degree in Meteorology from Penn State and his Bachelor's degree in Atmospheric Science from Cornell University.

**REGISTRATION** is only \$10 for members and students; \$15 for all non-members. Professional Development Hour (PDH) certificates provided for attendance. Please register by **Tuesday, Feb. 21st** at <http://www.awrancrs.org/events.html>, or email Mathini Sreetharanat/Membership Chair at [natcapawra@gmail.com](mailto:natcapawra@gmail.com) and pay at the door. (Make checks payable to AWRA-NCR Section). Become a member at <http://www.awrancrs.org/membership.html>.