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Michael Bartles, P.E.
Senior Hydraulic Engineer
Hydrology and Hydraulics Technology Division
Hydrologic Engineering Center
Institute for Water Resources
Davis, CA



Michael Bartles (Mike), is a Senior Hydraulic Engineer within the Hydrology and Hydraulics Technology (HH&T) Division at the Hydrologic Engineering Center (CEIWR-HEC-HH). He has held this position since April 2015. Mike is the project lead for the Statistical Software Package (HEC-SSP) which is used to perform numerous types of statistical analyses meant to support hydrologic and hydraulic applications. Additionally, Mike is a member of the Hydrologic Modeling System (HEC-HMS), Meteorological Visualization Utility Engine (HEC-MetVue), Watershed Analysis Tool (HEC-WAT), and Corps Water Management System (CWMS) teams at HEC. Mike develops lecture and workshop material for application of HEC software and provides training within the Corps' PROSPECT program and around the world.

In addition to developing software and training materials, Mike provides technical support on the application of HEC software, performs project studies, and develops guidance for use within dam and levee safety studies. Major studies in which Mike has recently been involved include the Tulsa/West Tulsa Levee System Risk Analysis, Garrison & Fort Peck Dam Safety studies, Mosul Dam Safety Modification study, and the Delaware River CWMS Implementation. Mike is also a member of the national Hydrologic Hazards Team and CWMS Implementation team which perform hydrologic and hydraulic modeling investigations throughout the entire United States.

Prior to working at HEC, Mike was a Hydraulic Engineer for five years in the Hydrology, Hydraulics, and Coastal Section within the Philadelphia District, U.S. Army Corps of Engineers. While at the Philadelphia District, Mike took part in numerous hydrologic and hydraulic investigations throughout the world. These included real-time forecasting applications for several large watersheds within the northeastern U.S., surface-subsurface hydrologic modeling investigations, dam failure hydraulic modeling studies, and groundwater modeling investigations within the Arghandab River watershed in Afghanistan, amongst others.

Mike holds a Bachelor's of Science degree in Civil Engineering from The Pennsylvania State University as well as a Master's of Science degree in Civil Engineering from Villanova University. Mike is also a registered Professional Engineer in the Commonwealth of Pennsylvania. Mike's technical specialties include physically-based hydrologic modeling, one- and two-dimensional hydraulic modeling, statistical hydrology, unit hydrograph theory, hypothetical and extreme storm event development, reservoir system operations, real-time flood forecasting, dam and levee safety, and Geographic Information Systems.

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