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**Matthew Fleming, P.E.**  
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Matthew Fleming (Matt), has been the Chief of the Hydrology and Hydraulics Technology (HH&T) Division at the Hydrologic Engineering Center (CEIWR-HEC-HH) for the last four years. There are 14 staff in the HH&T division who primarily support the development of three of the most widely used hydrology and hydraulics software within the Corps of Engineers and engineering profession, the Hydrologic Modeling System (HEC-HMS), the River Analysis System (HEC-RAS), and the Statistical Software Package (HEC-SSP). The software is used on a wide range of studies from flood forecasting, flood risk analysis, inundation mapping, dam and levee safety, reservoir sediment analysis, and environmental analysis.

In addition to developing software, the HH&T Division provides technical support on the application of our software, performs project studies using HEC software, and provides training within the Corps' PROSPECT program and around the world. Major studies that have used our software include the Columbia River Treaty study, Cherry Creek Dam Safety study, and the Russian River Forecast Informed Reservoir Operation study. With a combined software download count of over 150,000 unique downloads per year, our software is an industry standard for hydrology and hydraulic modeling. International training classes and technology transfer have been numerous recently, with classes in Vietnam, Mongolia, Brazil, and Kenya, to name a few.

Previously, Mr. Fleming was a Hydraulic Engineer for eleven years in the Hydrology and Hydraulics Technology Division at HEC. He assisted in interface coding, software testing, and documentation for HEC-HMS. In addition, he was the primary point of contact for technical assistance for application of HEC-HMS for Districts and Divisions. Mr. Fleming was the project lead for the HEC-GeoHMS software, which is a companion tool for HEC-HMS, and the project lead of the HEC-SSP program. Mr. Fleming was a team member on numerous hydrologic modeling studies which provided the opportunity to apply most of the HEC software to study applications. Notable studies include the Hurricane Katrina IPET study, Isabella Dam Safety study, the Fargo-Morehead Flood Risk Reduction study, Red River Pilot Climate Change study, and the Russian River Hydrologic Index study. Mr. Fleming developed lecture and workshop material for application of HEC software and taught in many training classes.

Mr. Fleming holds a Bachelors and Masters of Science degrees in Civil Engineering from Tennessee Technological University; is a registered Professional Engineer in the State of California, and is a member of the American Society of Civil Engineers (ASCE). Mr. Fleming's technical specialties included continuous hydrologic model simulation, hypothetical storm development, reservoir operation, application of climate model data to hydrologic modeling, flood forecasting, and dam safety studies.

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