



**George C. Modini, P.E.**  
**Chief, Water Management Systems Division**  
**CEIWR-HEC**

**U.S. ARMY CORPS OF ENGINEERS (USACE)**

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George C. Modini (Chan), has been the Chief of the Water Management Systems Division (WMS) Division at the Hydrologic Engineering Center (CEIWR-HEC-WMS for the last seven years. There are 14 staff in the WMS division who primarily support the development of three software programs within the Corps of Engineers and engineering profession, the Corps Water Management System (CWMS), the Reservoir System Simulation (HEC-ResSim), and the Data Storage System (HEC-DSS). CWMS consists of hardware, software (data base and model suite) that is used for real-time operations. The model suite consists of HEC-HMS, HEC-ResSim, HEC-RAS, and HEC-FIA. HEC-ResSim can be used for real-time and planning studies. HEC-DSS is the data storage component that is used by most software developed at HEC.



In addition to developing software, the WMS Division provides technical support on the application of software, performs project studies (complex in nature) using HEC software, and provides training within the Corps' PROSPECT program and around the world. Major studies that have used International training classes and technology transfer with classes in Paraguay, Dominican Republic, Honduras, Brazil, and Korea. Additionally in the past, the division has supported study work in Afghanistan, Iraq and the Ukraine.

Mr. Modini has been with USACE for 33 years with most of the time spent in water resources engineering. Prior to becoming Chief, Mr. Modini was a Senior Hydraulic Engineer in his current Division where he assisted with PROSPECT training courses and developed an HEC-ResSim model for real-time operations for the Columbia River Basin. Mr. Modini spent the previous 14 years working in the Pacific Northwest (three years for Portland District and 11 years for Northwestern Division.) At Portland District, he served as a staff level hydraulic engineer performing hydrologic and hydraulic studies for projects on the Willamette and Columbia River System. Chan then moved to CENWD where he spent three years as water manager regulating reservoirs for the Willamette and then Columbia River Systems. He then became the team lead in the hydrology branch where he was responsible for implementing the Columbia River Treaty Flood Control Operating Plan. He then took a developmental assignment and spent three years in the Programs Integration Division working as the Small Capital and O&M Program Manager developing, defending, and executing multi-year budgets. Prior to time in the Northwest, Mr. Modini spent 7 years at CESPK working as a student, intern, and hydraulic engineer.

Mr. Modini has personally provided technical training, internationally under the auspices of UNESCO, in hydrology, hydraulics, and reservoir operations in the Dominican Republic and Paraguay. He also provided presentations or training for various Army Commands in Brazil and Honduras.

Mr. Modini holds a Bachelors of Science Degree from California State University Sacramento and a Masters of Science Degree from Oregon State University both in Civil Engineering; is a registered Professional Engineer in the State of California and Oregon, and is a certified Project Management Professional. He is also an ASCE AAWRE Diplomate. Mr. Modini's technical specialties include hydrologic and hydraulic modeling, water supply forecasting, water management, reservoir operations, water management policy, hydrologic system flood control, and drought contingency.