



HEC-RAS River Analysis System

July 22-24, 2013

Wildland Fire Training Center

3237 Peacekeeper Way, McClellan, CA 95652

Instructor Biography

David T. Williams, Ph.D., P.E., P.H., CFM, CPESC

Dr. David T. Williams, the president of DTW and Associates, has almost 40 years of experience in the water resources industry and is known nationally and internationally for his contributions to the industry. He is well versed in the computer programs HEC-1, HEC-HMS, HEC-2, HEC-RAS, HEC-6, STORM, and WQRRS. David is also a nationally recognized expert in sedimentation engineering and in developing innovative solutions to difficult hydraulic and hydrologic design problems in rivers and estuaries. David has been a frequent short course instructor for ASCE, Federal and State Agencies as well as numerous professional societies for computer training workshops on using HEC-2, HEC-RAS, HEC-HMS and HEC-6. In addition, he has taught short courses on channel bed scour for toe protection design, stream restorations, sediment transport, bridge scour and streambank protection.

Dr. Williams previously served as a two time President of the International Erosion Control Association. He is also a past chair of the ASCE Sedimentation, Computational Hydraulics, Stream Restoration Committees and currently chair of the Probabilistics Committee. David is the author of more than 150 technical papers and engineering reports on hydraulics and sedimentation. Dr. Williams was formerly an Associate Editor of the ASCE Journal of Hydraulic Engineering as well as a reviewer.

His professional experience includes more than eighteen years as a hydraulic engineer with the U.S. Army Corps of Engineers at the Waterways Experiment Station (WES, now ERDC) in Vicksburg, Mississippi, both the Nashville and Baltimore Districts, and the Hydrologic Engineering Center (HEC) in Davis, California. While at WES, Dr. Williams worked on research applications of sediment transport in rivers and reservoirs and the solution of unusual hydraulic and sediment related problems using computer models and other state-of-the-art techniques. He also worked on the development of the cohesive and network versions of the HEC-6 sediment transport computer model and wrote the Reservoir Sedimentation Chapter in the U.S. Corps of Engineering Manual on Sedimentation Investigations. At the Nashville District, Dr. Williams performed erosion control and sedimentation studies for the Tennessee-Tombigbee Waterway Project and also conducted sedimentation and floodplain information studies of proposed flood control projects. He was acting Chief of the Hydrology and Hydraulics Section at the Baltimore District Corps of Engineers. During the mid 1970's, Dr. Williams worked at HEC, helping in the development of spatial data management techniques, evaluation of the economic benefits of flood control projects, and sedimentation in rivers and reservoirs.