



Biography  
Matthew D Wood, Ph.D.

Matt received joined ERDC Environmental Lab in July 2013 and was a former SMART Scholarship Fellow with EL. His education includes a BA in Psychology from Elizabethtown College (PA), an MS in General Psychology from Villanova University (PA), and a Ph.D in Cognitive Psychology from Carnegie Mellon University (PA). His research focuses on the psychology of team problem solving, engineering design, and decision making processes, in particular those that facilitate shared problem understanding and lead to mutually desirable outcomes. Matt's experience includes empirical work in problem solving and decision making tasks in individuals and teams, natural language processing, and modeling cognition through computational and diagrammatic approaches. He is interested at applying these skillsets to answer basic research questions with immediate application potential, particularly in the domain of innovative problem solving and decision making to address current engineering and science challenges. His other professional interests include giving science away through improved dissemination to and engagement with publics, promoting interdisciplinary research, and learning more about the history and science of science, invention, and industry.

#### Relevant publications

Collier, Z. A., Bates, M. E., Wood, M. D., & Linkov, I. (2014). Stakeholder engagement in dredged material management decisions. *Science of the Total Environment*, 496, 248-256.

Wood, M. D., Chen, P., Fu, K., Cagan, J., & Kotovsky, K. (2014). The role of team interaction structure on individual and shared mental models. In J. S. Gero (Ed.), *Design Computing and Cognition '12*. New York: Springer. DOI: 10.1007/978-94-017-9112-0\_12.

Wood, M., Kovacs, D., Bostrom, A., Bridges, T., & Linkov, I. (2012). Flood risk management: US Army Corps of Engineers and layperson perceptions. *Risk Analysis*, 32(8), 1349-1368.

Wood, M., Mukherje, A., Bridges, T., & Linkov, I. (2010). A Mental Modeling approach to study decision-making in Dynamic Task Environments. In Chinyio, E. and Olomolaiye, P. (editors) "*Construction Stakeholder Management*". London: Blackwell-Wiley.

Google Scholar profile: <http://scholar.google.com/citations?user=XI2vZ6MAAAAJ&hl=en>