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David Hetrick is the Group Leader of the Modeling and Simulation Group in the Computational Sciences and Engineering Division at Oak Ridge National Laboratory. The Group has 37 computer-oriented professionals focused in the area of computational solutions to engineering and physics problems. The Group has expertise in parallel discrete event simulations and physics-based predictive simulations, including heat transfer and fluid flow, structural and fracture mechanics, biomedical applications, environmental modeling, complex nonlinear systems, behavior sciences, and system integration.

In research, Mr. Hetrick has worked on a variety of computational problems including modeling sediment and contaminant transport in rivers and estuaries, pollutant transport via environmental models in all media (air, water, soil), pharmacokinetics modeling in the human body, and evaluating neutron cross sections of structural materials for fusion reactor applications. He authors/coauthors 84 reports and papers in the open literature and is the co-editor of one book. He has a B.S. in mathematics and physics from the University of Wisconsin at River Falls, a M.S. in applied mathematics from Michigan State University, and is a member of the American Association for the Advancement of Science.