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Dr. Stephen E. Zitney is one of the developers of the Advanced Process Engineering Co-Simulator (APECS) which has been named a winner of a 2008 R&D 100 Award to be presented to the Department of Energy's National Energy Technology Laboratory (NETL). This innovative software product was built on the combined access, workflow, and data services of the ANSYS® Engineering Knowledge Manager™. Dr. Zitney is the Director of Collaboratory for Process & Dynamic Systems Research in the Office of Research & Development at NETL.

Dr. Zitney received M.S. and Ph.D. degrees in Chemical Engineering from the University of Illinois at Urbana-Champaign and a B.S. degree in Chemical Engineering and Engineering & Public Policy from Carnegie Mellon University in Pittsburgh. He is a resident of Morgantown, WV.

The R&D 100 Awards are given yearly by R&D Magazine to the 100 most technologically significant new products in the marketplace over the past year. NETL technologies won two of the R&D 100 Awards in 2008.

The APECS with EKM™ software offers high-fidelity process/equipment co-simulation along with seamless data/model management throughout the plant lifecycle, including process innovation, design, operations, and management across the distributed enterprise. This tool can be deployed by the process and energy industries as a complete engineering solution for facilitating rapid technology development, reducing pilot/demonstration-scale facility design time and operating campaigns, and reducing costs and technical risks in attaining high-efficiency, near-zero emission plants.

An independent judging panel and the editors of R&D Magazine vote on technologies in the running for the R&D 100 Awards, which will be presented at the R&D 100 Awards banquet in Chicago on October 16 this year.

NETL is one of the U.S. Department of Energy's national laboratories. NETL – "the ENERGY lab" – focuses on America's economic prosperity, which requires secure, reliable energy supplies at sustainable prices. Three overarching issues characterize the energy situation in the United States. They are energy affordability, supply security, and environmental quality. The Department of Energy's only government-owned, government-operated national lab, NETL is a research and technology center where these energy challenges converge and energy solutions emerge. NETL implements a broad spectrum of

energy and environmental research and development programs through its own research staff and through funded research at other labs, universities, and industry that will return benefits for generations to come.

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