Deborah (Debbie) Gracio

Pacific Northwest National Laboratory
Computational & Statistical Analytics
National Security Directorate

Phone: 509-375-6362
Email: Debbie.Gracio@pnnl.gov

Ms. Gracio joined PNNL in 1990 and is currently the Director for the Computational and Statistical Analytics Division in National Security. Since joining the laboratory in 1990, Ms. Gracio has led the research, development, and management of multiple cross-disciplinary, multi-laboratory projects focused in the basic sciences and national security sectors. Her work has included research and development of integrated computational environments for biodefense, computational biology, computational chemistry, and atmospheric modeling. As the director of the Data-Intensive Computing research initiative, Ms. Gracio was responsible for building a program that identified PNNL as the leader in addressing the challenges of high-throughput streaming data and multi-source analytics focused on problems in both fundamental science and national security domains.

Since joining the Laboratory, Ms. Gracio has been involved in a variety of projects that have aided in developing a broad technical background in computer systems integration, software engineering, scientific computing, large-scale data management, and data acquisition. From 2003-2006, Ms. Gracio was responsible for the Computational Sciences Product Line at PNNL. This portfolio consisted of programs within the DOE, DOD, and Intelligence Community sectors with annual business sales of $20M. From 2000 – 2004, Ms. Gracio worked with the leadership of the Biomolecular Systems Initiative to develop a computational biology and bioinformatics portfolio for PNNL. This work has included developing and coordinating a research agenda and roadmap for bridging computational and biological sciences and building enduring collaborations, and business opportunities. From 1995 - 2000, Ms. Gracio was the project lead for the Extensible Computational Chemistry Environment (Ecce), a key capability in the Molecular Sciences Software Suite - the flagship computational chemistry suite for the Department of Energy. From 1990 - 1995, she was responsible for the design, development and management of the Atmospheric Radiation Measurement Experiment Center, providing observational data streams and computational model results to climate modelers and researchers across the globe.

Ms. Gracio received a R&D 100 Award in 1999 and a Federal Laboratory Consortium Award in 2000 for the Molecular Sciences Software Suite, a software product which is now deployed to institutions worldwide. In 1994, she was recognized by the DOE with a Certificate of Accomplishment for the Atmospheric Radiation Measurement Program and in 1989 as the DOE Outstanding Woman in Engineering. Ms. Gracio is currently a Senior Member of the Institute for Electrical and Electronics Engineers and served on the IEEE Information Systems Strategy Council. Ms. Gracio serves on the executive advisory board for the School of Electrical Engineering and Computer Science at Washington State University and is a board member of the Columbia Basin College Foundation.

Education
B.S., Electrical Engineering, Washington State University
M.S., Electrical Engineering, Washington State University