The Invention-to-Innovation Lifecycle

Technologists make the world a better, safer place through the invention-to-innovation lifecycle. Drawing on her wide-ranging experience across academia, government and industry, Dr. Amy Alving will discuss the different skill sets the lifecycle requires and the opportunities it offers for achievement: from exploring the frontiers of knowledge through university research; to creating a vision for addressing pressing problems in national security; to developing innovative solutions that are both practical and affordable. She will conclude by discussing several of the most important unsolved challenges we face in the Information Age.

This year’s lecture will be given by:

Dr. Amy Alving
Chief Technology Officer and Senior Vice President at Science Applications International Corp (SAIC)

Amy Alving, Ph.D., is the chief technology officer and senior vice president at Science Applications International Corporation (SAIC). She leads SAIC’s Office of Technology, which is responsible for the creation, communication, and implementation of SAIC’s technical and scientific vision and strategy. Prior to joining SAIC, Alving served as the director of the Special Projects Office at the Defense Advanced Research Projects Agency, where she was a member of the Senior Executive Service. Alving was a White House Fellow (1997-98) serving at the Department of Commerce. Prior to that, she was an associate professor of aerospace engineering at the University of Minnesota. Alving graduated from Stanford University with a B.S. in mechanical engineering and from Princeton University with a Ph.D. in mechanical and aerospace engineering. She currently serves on the Board of Directors for Pall Corporation (NYSE: PLL). She is also a member of the Georgia Institute of Technology Advisory Board and has been a member or advisor to the Naval Research Advisory Committee, Army Science Board, Defense Science Board, and National Academies studies.

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Zeigler Outstanding Educator Lecture
Thursday, April 26, 2012 at 11 a.m.
MRDC 4211

The lecture will be given by the 2011 award winner:
Dr. G. Paul Neitzel
Professor and Associate Chair of Graduate Studies

Dr. Paul Neitzel is a Professor and the Associate Chair of Graduate Studies for the Woodruff School of Mechanical Engineering. His research is in the area of fluid mechanics. His research interests lie in two areas - the first relates to free-surface flows involving droplets and surfaces and the second with bioreactors used for mammalian-tissue engineering and for the growth of algae for carbon sequestration. His research has been funded through grants from the National Aeronautics and Space Administration, the National Science Foundation, the Office of Naval Research, and the Air Force Office of Scientific Research. Prior to joining Georgia Tech in 1990, Neitzel was Assistant, Associate, and Professor at Arizona State University.

“Educating Engineers in the Twenty-First Century—Opportunities and Challenges”

Capstone Design Expo
Thursday, April 26, 2012 at 6 p.m.
Clough Commons Atrium

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