CELEBRATES

Three Multidisciplinary University Research Initiative (MURI) Program Awards

AWARDED TO MULTIDISCIPLINARY, MULTI-UNIVERSITY TEAMS LED BY:

John C. Knight
Professor in the Department of Computer Science

Pamela M. Norris
Professor in the Department of Mechanical and Aerospace Engineering

Haydn N. Wadley
University Professor and Edgar Starke Professor in the Department of Materials Science and Engineering

HONORED BY

MURI

A multi-agency program overseen by the U.S. Department of Defense that supports multidisciplinary research projects with the potential for both defense and commercial applications through awarding offices of the three U.S. military branches
U.Va. Engineering School Secures Three MURI Grant Awards

U.Va. Engineering School MURI award winners will lead teams from other universities to research areas that intersect more than one traditional science and engineering field.

**Team One** — led by John Knight — includes U.Va. Engineering School faculty members Jack Davidson, David Evans, Anh Nguyen-Tuong and Westley Weiner as well as researchers from the University of New Mexico, the University of California at Santa Barbara and the University of California at Davis. The team will research the utilization of the Helix security architecture for proactively defending computer systems against sophisticated attackers by dynamically monitoring executions and unpredictably reconfiguring software components.

**Team Two** — led by Pamela Norris — includes researchers from Arizona State University, the University of California at Berkeley, the University of Illinois at Urbana-Champaign and Rensselaer Polytechnic Institute. The team will explore the reduction of chip temperatures in large-scale and high-heat-flux complex electronic systems using microfabrication, nanotechnology and modern systems control strategies.

**Team Three** — led by Haydn Wadley — includes researchers from the Massachusetts Institute of Technology, the University of California at Santa Barbara, Harvard and Cambridge University in the United Kingdom. The team will investigate new concepts for the mitigation of shock waves and impulsive loads using an integrated cellular materials approach.

The U.Va. Engineering School’s three MURI grants will bring in nearly $20 million in funding over the next five years. Thirty-six MURI grants were awarded nationwide in 2007.

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