

# UNIVERSITY of LOUISVILLE<sup>®</sup>



Center for Information Assurance



## InfoSec Seminar Series

### **Dr. James Graham**

Henry Vogt Professor of Computer Science and Engineering  
Acting Chair, Department of Electrical and Computer Engineering, University of Louisville

will present a lecture on

### **Issues in SCADA Systems Security**

Monday, November 13, 2006

1:15 to 2:15 p.m.

Room 201, Miller Info. Tech. Center (MITC)

**Abstract:** Supervisory control and data acquisition (SCADA) systems monitor, regulate, gather information from, and control the computer field units that control much of our industrial and utility infrastructure. Security was not a high priority in the design of much of this equipment, which can be as much as thirty years old, because it used obscure protocols and relatively secure, dedicated, communications links. This has all changed in the last twenty years as many SCADA systems are now accessible, either deliberately or through system design flaws, through the public Internet. This talk will outline some of the vulnerabilities of these industrial control networks in today's highly networked world, and will also present an overview of research at the University of Louisville that is aimed at addressing and closing some of these vulnerabilities.

Dr. James H. Graham is the Henry Vogt Professor of Computer Science and Engineering at the University of Louisville. He currently serves as the Acting Chair of the Department of Electrical and Computer Engineering. He has previously served as a faculty member at Rensselaer Polytechnic Institute, a visiting professor at Purdue University, and as a product design engineer with General Motors Corporation. He has served as a technical consultant to the General Electric Research and Development Center, GTE Laboratories, Science and Engineering Services, Inc., and several other high technology companies. He earned the Bachelor of Science degree in Electrical Engineering from the Rose-Hulman Institute of Technology in 1972, and the Master of Science and Ph.D. degrees in Electrical Engineering from Purdue University in 1978 and 1980, respectively. Dr. Graham is a senior member of IEEE and a professional engineer. He is a cofounder and the current director of the Intelligent Systems Laboratory in the Speed School of Engineering at the University of Louisville. Dr. Graham's research interests include robotics, artificial intelligence, high-performance computing, computer simulation, and computer security.

Refreshments provided

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Spring 2007 seminars will be announced in January