

# Welcome

## Seminar Series of the Department of Computer Science Electrical Engineering Presents

### Technology for Securing Trade Lanes

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#### Abstract

Disparate complex systems are used today in the container transport chain resulting in a lack of visibility, accountability, efficiency, and security. Deficiencies (e.g., paper-to-electronic-to-paper conversions) in these areas expose the system to attacks such as the Trojan horse (the commandeering of a legitimate trading identity to ship an illegitimate or dangerous consignment), hijack, or the theft of goods. The insufficiencies in these areas must be overcome to improve transport over secure trade lanes especially at intermodal points, i.e., at rail/truck transitions. Providing visibility, accountability, efficiency, and security requires the coordinated application of sensing, communications, and the integration of information. To maximize such coordination several technology trends must be leveraged. Here associated technology trends are discussed as well as the integration of sensor and logistics information.

**Bio:** Dr. Victor S. Frost is currently the Dan F. Servey Distinguished Professor of Electrical Engineering and Computer Science and Director of the University of Kansas Telecommunications and Information Technology Center (ITTC). He is a Fellow of the IEEE and received a Presidential Young Investigator Award from the National Science Foundation in 1984. His current research interest is in the areas of internet quality of service, traffic management, and integrated broadband communication networks. He has been involved in research on several national scale high speed wide area testbeds. Government agencies, including, NSF, DARPA, Rome Labs, and NASA have sponsored his research. Dr. Professor Frost has been involved in research for numerous corporations, including Harris, Sprint, NCR, BNR, Telesat Canada, AT&T, McDonnell Douglas, DEC, and COMDISCO Systems. He has published over 100 journal articles and conference papers. Dr. Frost received the BS, MS, and Ph.D. degrees from the University of Kansas, Lawrence in 1977, 1978, and 1982, respectively. In 1982 he joined the faculty of the University of Kansas.