

“COMPUTER NETWORK DEFENCE: YOU CAN OBSERVE A LOT BY JUST BY WATCHING”



Speaker: Dr. Scott Knight

Associate Professor
ECE Dept RMC

Day/Time: Friday, Nov. 27, 2009

3:00-4:00pm

Location: Queen's, WLH 302



Abstract:

The Computer Security laboratory (CSL) is a research group within the Electrical and Computer Engineering Department at RMC. Research within the CSL is focused on information security issues relating to the security of information held on or transported by computers and computer networks. Recent research has addressed issues concerning the exploitation of computer networks by attackers using covert communications channels for command and control of the target machines they have compromised. The research has also focused on the appropriate technical response to computer network attack and the defensibility of computer networks. The talk will address these issues in the context of a computer network cyber-defence exercise the CSL participated in recently. The cyber-defence exercise to be described is an annual exercise sponsored by a US government agency. Participants include students from the United States Military academies and postgraduate schools, and RMC. The exercise took place over a one week (5day) time frame where the participating schools were required to defend networks they had built from cyber-attack by a government attack team. The conduct of the exercise and the experiences of the RMC CSL team will be used in the talk to describe and highlight the ongoing research activities of the CSL research group.

Biography:

Scott Knight is an Associate Professor in the Department of Electrical and Computer Engineering at the Royal Military College of Canada. He completed his PhD at Queen's in 2000. Dr Knight was appointed to the academic faculty at RMC in 2000 on retirement from 21 years of service in the Canadian Air Force. At RMC he founded the Computer Security Laboratory, and continues to lead this research group. This research group has a close working relationship with the Canadian Forces Information Operations Group and focuses on computer network defence and support to information operations. He is also cross-appointed to the School of Computing at Queen's.

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Seminar is open to the public. Free admission. Refreshments will be served.