



THE OTTAWA

AFCEAN

January 2005

Inside This Issue

January PD Report	p1
Upcoming Events	p1
Report - ITS Course	p3
Curling Event	p4
February Meeting	p4
Your Input	p4

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Col David Neasmith

Commander Canadian Forces Information Operations Group Computer Network Operations – Consideration for DND/CF Requirements

January PD Meeting Presentation, reported by Dave Edmunds

PD Presentation Report

Col Neasmith commenced his presentation by announcing that his presentation would cover three aspects of his responsibilities: elements of CNO*, legal considerations for CNO, and CFIOG including the CFNOC.

Col Neasmith defined IO as the military component of an overall GoC or coalition information strategy based on diplomacy, information, military and economics. CNO is a subset of IO and is defined as actions taken to defend (CND) exploit (CNE) or attack (CNA) information resident on information systems or the information systems themselves. [Further Information can be found in US Congressional Research Section paper *Information Warfare and Cyberwar: Capabilities and Related Policy Issues* at www.fas.org/irp/crs/RL31787.pdf.] He said that DND/CF must reconsider CNO because of new pervasive and ill-defined threats; the needs of continental defence and security versus national sovereignty; the necessity to review the balance of security with privacy, to weigh intelligence against information sharing (from “Need to Know” to “Need to Share”); and assess the trend to Network Centric Warfare (the network environment becomes a “battle space”). He pointed out that forces must spend a large part of their time in garrison devoted to preparing plans; they later become the deployed forces which must implement those or similar plans. (continued on page 2)

Uncoming Events

Luncheons:

February 1st, 2005, Army Officers’ Mess Paul Earnshaw and Michael Davenport, MDA – Maritime Surveillance – The Future

March 1st, 2005, Army Officers’ Mess Robert Groulx, PWGSC – GoC Marketplace

Curling: February 25th

Members’ Appreciation Funspiel - see page 4

Chapter website: www.afcea.ca/ottawa.htm

Web Services by:



DND Computer Network Operations

(continued from page 1)

If the style and language of the preparation and the implementation were to differ, command and control will be severely complicated. Common functionality, information, and interface are all required.

Col Neasmith said that CND activities are bounded by legislative considerations for privacy (ATIP) and the interception of communications (CCC). Bill C-36 amended the CCC, authorizing CSE personnel, under MA, to intercept private communications if it is essential to identify, isolate or prevent harm to GoC computer systems or networks. Later, Bill C-14 provided lawful exception for intercepting private communications for network management and defence. A similar Bill, C-7, making an exception for DND/CF personnel has not been put into force. He also said there is a need to establish the process for coordination of CND operational issues within government. PSEPC, CSE, RCMP, CSIS, and DND all have roles for CND incidents within the GoC NERS. Within DND/CF, CFNOC coordinates all CND operational activities with operational staffs and with network operators and engineering staffs (both deployed and in Canada). For the GoC, PSEPC coordinates other Government department and agency activities. Coordination is effected with allied services through the AUS/CAN/NZ/US/UK military Computer Network Defence community, and with industry via Bell Nexxia, FIRST, CERT CC, and ISPs. As to CNE considerations, changes introduced by Bill C-36 have fitted CNE activities such as targeting and other control measures into a legal framework, since they are considered essential to meet the targeting requirements for CNA. Because a number of GoC departments and agencies may have interests in CNE activity based on their mandates, there is a need of GoC mechanism for control and arbitration, both nationally and internationally. Col Neasmith displayed a Use of Force chart for determining where a contemplated CNO activity fits in the CNA spectrum so that experts can determine whether it is CND, CNE or CNA and assess the operational and legal consequences. Factors include distinction of targets, proportionality of effects, combatant status, and ROE.

Col Neasmith, as Commander CFIOG, provides assigned IO capabilities to both Defend and Exploit the information space for the DND/CF. These capabilities are network-centric, and include skills, knowledge, process, oversight, and technology. He commands the CFNOC, which was created 3



Ottawa Chapter President Debbie Wolfenden thanked Col Neasmith for his presentation

Sep 2002 to develop the integration of network and security operations and their display. The CFNOC responsibilities include national system operations, incident management, security operations, computer network defence (teams: CIRT for incident response, and NVAT for vulnerability assessment), and ITI situational awareness for coordination and impact assessments.

In summary Col Neasmith emphasized that CNO is not a set of three clearly distinct functions; governance for these activities must be built to address the flow required between functions for effective, timely operations; and a coordinated GoC approach is necessary to optimize these activities.

[Col Neasmith's presentation slides will be found at www.afcea.ca, Ottawa Chapter.

** Abbreviations/acronyms used in the PD Report are listed alphabetically and expanded at slide 22 of the presentation]*

AFCEA Membership Information

For information about joining AFCEA, or to make changes to your membership profile (e.g. change of address), visit the AFCEA International website at www.afcea.org - click on "Join/Renew" or check the Portal.

If you should encounter problems, call 703-631-6158 or email services@afcea.org.

AFCEA ITS Course November 29 - December 3, 2004

For several years, the AFCEA Ottawa Chapter has taken the mandate to promote Information Technology Security (ITS). Every fall, the Ottawa Chapter organizes an ITS Course, held at the NavCanada facility in Cornwall. The course is intended for an audience with a background in Information Technology but not necessarily knowledge in IT security. The 2004 version of the course was held from November 29th to December 1st.

The course curriculum is based on security issues relevant to today's business. In 2004 we expanded the course with topics such as Defence-in-Depth, Forensics Analysis, Wireless Security, and Facilitated Risk Assessment. Most wanted topics like Privacy, Cryptography, the Internet and the Laws remain an essential part of the core curriculum. The purpose of the course is not to promote specific security products but to enhance security knowledge. Opening any magazine or newspaper demonstrates that IT security is the forefront concern not only to government employees but to business and citizens of Canada. Therefore, this course continues to be relevant to government employees and the private sector.

There are no instructors on this course. Subject matter experts volunteer their time as keynote speakers for this event. The quality of speakers is highly impressive. The speakers, with strong security backgrounds, are drawn from private security firms and major government departments. Attendees are separated in small syndicates to work on a case study, which integrates the security principles taught during the course. This course offers students a unique opportunity to network with professionals in the security field and form lasting business relationships.

This AFCEA initiative has proven to be very successful amongst our membership, government and industry. We are already planning the 2005

course, which will be opened to a maximum of 40 students and is expected to be held from 14th to 18th November 2005. If you are interested in attending our next course (early registrants get a \$100 rebate!) or participating as a keynote speaker, please contact the AFCEA office at (613) 721-6031 or email:

info@afceaottawa.org.



Some of our students at work on the case study. Very grueling work!



As our course banquet guest speaker, Mr Tim McCreight, Corporate Security Senior Advisor for Bell Canada, provided very useful insights into his experience deploying security mechanisms and investigating various fraud cases.

The AFCEA
Ottawa
Chapter would
like to express its
continuing
gratitude to
TIME ICR for
providing its
voice message
system.



February PD Meeting:

Tuesday, February 1st, 2005 at 12:00 noon

Army Officers' Mess, 149 Somerset Street, Ottawa

Speaker: Michael Davenport, Senior Scientist, Defence R&D,
MacDonald, Dettwiler and Associates Ltd.

Topic: Maritime Surveillance – The Future

An overview of Maritime Security based on experience with DRDC, DND, DoD and the Royal Navy. The presentation will cover such topics as the challenges and priorities of Maritime Security and how current and future technologies could be used to improve it.

Booking Arrangements:

Please check the Chapter website www.afcea.ca/ottawa.htm or call 721-6031. Space is limited. Cost: \$15.00/person for industry or \$5.00/person for government employees. Pay by credit card in advance, or by cash or cheque at the door.

Registration deadline is Fri. January 28th

Ottawa Chapter - Members' Appreciation Curling Bonspiel - 25 Feb 05

AFCEA Ottawa Chapter would like to express its appreciation to all members for their support to our operations over the past year by inviting all Chapter members to a curling funspiel on 25 February, 1130 to 1530 at the RCN Curling Club, Dows Lake. You don't have to be a curler to come out and have some fun and network with your fellow members. Brooms will be provided as will a light lunch. A pay-your-own-way bar is also available.

And best of, it's FREE (except for the bar) to all as our way of expressing our appreciation for your participation. Why not invite a new member for AFCEA to join you and get them to sign up as a member in this professional international organization.

Please respond ASAP as we currently have booked only two sheets of ice limiting us to 32 curlers. If we can get as many as 64 curlers, then we can book the other two sheets, but will need to know this as soon as possible.

To reserve your spot - either individually or as a team - send an email to info@afceaottawa.org with your name and number of people you will be bringing.

Reader Feedback and Newsletter Submissions

In keeping with Chapter direction to bring more discussion to the areas of professional development and to broaden the scope of the AFCEAN newsletter, we would welcome your comments, articles and other contributions. All are encouraged to submit items of topical or general AFCEA interest (contracts and awards, promotions, upcoming events and courses) to the Editor for publication. Original articles which you the members may wish to submit or comment upon for publication are most welcome. Please take advantage of this opportunity to let AFCEANs worldwide know what you and your Chapter are doing. If you have any questions concerning the appropriateness of a submission please contact the AFCEAN Editor Bill Hawken at 841-2912 or hawkenw@hotmail.com