



**THE
OTTAWA**

AFCEAN
February 2005

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

Maritime Surveillance – The Future

February PD Meeting Presentation, reported by Dave Edmunds

PD Presentation Report

[The many abbreviations used in the presentation have been collected and are listed with their meanings as an additional slide at the end of presentation posted on the Chapter Web site]

Mr. Davenport pointed out that the main title of his presentation could not be covered in the short time available, so that he would have to concentrate on Wide-Area Surveillance, with particular emphasis on his sub-title—The importance of what we don't know. Canadian maritime surveillance is conducted by the East and West coast MSOCs on a 24/7 basis, covering Canadian AORs with Wide-Area Surveillance, conducting Directed Surveillance of VOIs, and then fusing, analysing, interpreting, and disseminating the information. Mr. Davenport demonstrated that while the equipment provided an RMP filled with a great deal of information, most of it was not very important; worse, it served to hide the most important intelligence, an effect known as the yellow dot problem. He illustrated how, as understood tracks were removed from the radar screen, unexpected tracks and partial tracks suddenly became highly apparent. Using the approach of improving the visibility of unknowns by minimizing the distraction of the knowns, he examined how it should be possible to derive better intelligence and better exploitation by refining equipment, procedures, and training. He suggested that better intelligence could be

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Upcoming Events

Luncheons:

March 1st, 2005, Army Officers' Mess

**Bob Mornan, Executive Director,
Treasury Board Secretariat, CIO**

April 5th, 2005, Army Officers' Mess

Laurie Mack, IBM – Infrastructure Protection

Golf:

May 19th, 2005, The Meadows

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

Web Services by:



Maritime Surveillance – The Future

(continued from page 1) obtained by improving the efficiency of data delivery, by employing automated data fusion engines, by improving the data fusion CONOPS, and by installing better sensors. Better exploitation of the information could be achieved by improving the CONOPS to achieve a better RMP interpretation. Discussing each of the above problems in turn, Mr. Davenport said that the largest data problem is the delays in receiving reports. These are mainly caused by multi-level security issues which are proving difficult to resolve, and information management issues, which are being solved by incremental fixes to GCCS and MCOIN. Automated data fusion is needed to obtain more mathematically accurate interpretations of track reports, deriving tracks using uncertainty ellipses from both trackers and sensors and ensuring that any anomalies are investigated. Workflow algorithms (procedures such as those used by spell checkers) are helpful. Better sensors are needed, such as AIS and GPS transponders which can give input as sensors; there are four thousand voluntary weather reporting ships with their locations available on the web yield information by using data mining, which means a great many yellow dots can be removed from the screen. Improved CONOPS for RMP interpretation include developing new MOEs; focussing on unknowns; looking in strange places; mining data for statistical patterns; watching for deception; and filing score cards for ships rating threat risk and reliability. The standard requirement for GCCS was to indicate identity and intentions; now it needs to differentiate between empty and unobserved, notice when a track disappears, highlight tracks that haven't given a 96-hour check-in, plot new colours for VOI status, monitor ships in port, display temporal relationships, and provide cleaner links to Maritime intelligence from the RMP. Finally, better training and career paths for skilled people involved in maritime surveillance would accentuate standards of effectiveness.

Mr. Davenport advocates proceeding toward the needed capabilities in small steps because it is not entirely clear which path to take, the incremental procedure is working well, and it simplifies keeping up-to-date. He predicts a large increase in Maritime Domain Awareness within the next few years as effective Wide Area Surveillance is achieved.

Mr. Davenport summarized his presentation with the prediction that emerging technologies will tip the balance in favour of true Wide Area Surveillance; that the immediate result will be an ability to focus on “what we don't know”; that this could happen suddenly and soon, if we are prepared; and the impact will be a quantum jump in Maritime Domain Awareness.



Ottawa Chapter President Debbie Wolfenden thanked Dr. Davenport for his presentation

[*Mr. Davenport's presentation slides will be found at www.afcea.ca, Ottawa Chapter.*]

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.

Tribute to AFCEA Corporate Members

On 9 February 2004, AFCEA Canada hosted a Luncheon of Distinction for Corporates who have been AFCEA members for 15 or more consecutive years. These included General Dynamics Canada (24 Years), Valcom (21 Years), Nex Innovations (20 Years), Telesat Canada (18 Years), CGI Consulting (17 Years) and Thales Systems Canada, Lockheed Martin Canada and Electronic Warfare Associates (16 Years). These companies have supported AFCEA by actively participating in organizing and attending events, sponsorship of many of our activities, and providing people for members of the AFCEA Council of Advisors and Chapter executives. Without them, we would not be able to meet our mandate. MGen (Ret'd) John Leech and Mr. Paul Cellucci, our honoured speaker and US Ambassador to Canada, presented company representatives with a gift in thanks for all of their contributions.



US Ambassador to Canada Paul Cellucci (r) and MGen (Ret'd) John Leech (l) presented company representatives with a gift, in thanks for all of their contributions



Group photo of representatives of companies which have been Corporate Members of AFCEA Canada for 15 or more consecutive years, without whom AFCEA Canada would be unable to meet its mandate

AFCEA IT SECURITY COURSE 2004

AFCEA Ottawa Chapter extends its appreciation to the following individuals and companies who contributed to the success of this past year's IT Security Course:

Ken Armstrong
Mario Major
Marv Sywyk
Mark Dennison
Greg Scorsone

Laurie Mack
Doug Smith
Bob Davies
JF Sauriol
Steve Lloyd

Kelly Stewart-Belisle
Cal Clupp
Janet Rivers
John Simpson
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John Clayton
Tim McCreight
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Hugh Ellis
Alice Sturgeon

EWA-Canada
Bearing Point
PSEPC
Phirelight
Sciences Corporation
Communications Security Establishment

Cinnabar Networks
Bell
ID-Crypt
Emcon Independent
Treasury-Board-CIOB

CGI
AEPOS Technologies
IBM-Domus
EdgekeepComputer
AFCEA Canada
Edgekeep

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



March PD Meeting:

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

Army Officers' Mess, 149 Somerset Street, Ottawa

Speaker: Bob Mornan, Executive Director, Treasury Board Secretariat, CIO

Topic: A Perspective on the Future of Procurement in the Government of Canada

This session will focus on the direction and challenges of procurement post the Expenditure Review Outcomes, with a special focus on the primary emerging tool, the Government of Canada Marketplace. Bob Mornan has been not only an interested and connected observer of the evolution of procurement, but has been substantially involved in the GoCM project. Bob will also address the emerging professional services procurement strategy and the industry reaction to 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., February 25th

AFCEA OTTAWA / EDUCATION FUND ANNUAL GOLF TOURNAMENT and DINNER Thursday, May 19, 2005



The Meadows Golf and Country Club, 4335 Hawthorne Road, Gloucester, Ontario
Registration has officially begun. Please go directly to www.afcea.ca/ottawa.htm to receive the registration form and review our sponsorship opportunities.

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