



THE OTTAWA

AFCEAN

January 2003

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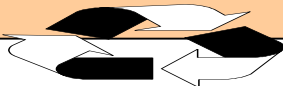
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Spring Dinner / Dance Gala CFS Leitrim February 28th, 2003

SPONSORSHIP

The Sponsor of the September luncheon was Hewlett Packard. A special thanks for their continued support.

**Network Attacks, Vulnerabilities, and Applicability to
Critical Infrastructure**
**Mark Fabro, CISSP, Chief Security Scientist,
Enterprise Security Group, American Management Systems**

Reported by Dave Edmunds

Marc Fabro opened his presentation with a quotation: "Attacks in cyberspace blur traditional boundaries between nations and private interests, cannot be foreseen or tracked via classical intelligence methods, and are all but indistinguishable from accidents, system failures or even hacker pranks." [-RAND].

... continued on page 2

WELCOME NEW MEMBERS

Individual: Mr. Howard Dickson, NDHQ/ADM (IM); Mr. Mark Fabro, American Management Systems; Mr. Bill Lobban; Col(Ret) C. Charles MacLennan, RCMP; Mr. Mike McDonald, Dell Computer Corporation; Mr. Didier Van den Berghe, BEA Systems.

Corporate: Presentey Engineering Products: Mr. Jim Johnson; Systematix IT Solutions: Mr. Shawn Baldwin and Ms. Carolyn Mitchell; Unisys Canada Inc.: Ms. Ellen Finigan, Ms. Karen Lemeiux, Mr. Craig Spec and Mr. John Spencer.

**Inbusiness Solutions sponsored the publication of
the AFCEAN Newsletter to the web site.**

Chapter website: <http://www.afcea.ca/>

Strategic Planning, Building the Forces of 2020 and Enterprise Architecture

Reported by Dave Edmunds

He explained that cyber attacks are attractive means of clandestine warfare because they are cascading and quick, afford the capability to observe the damage and the possible policy influence, can have a large psychological impact, allow the originator to be concealed, and they can be synergistic with other types of attack. He cited cases of cyber attacks following traditional attacks in recent conflicts such as Pakistan/India, Israel/Palestine, Yugoslavia/NATO/Kosovo, US/China (plane/embassy/etc.), and post-Sept.11 (Afghanistan, Pakistan, Iraq/Iran). He emphasized the seriousness of cyber-'terrorism' by citing formal terrorist statements indicating computer-based weapons and various investigations. In the US many top financial, government and media organizations are vulnerable and have been hit. Examples of vulnerable targets include financial infrastructures (information poisoning, trading floor corruption, personal data confidentiality), communications infrastructures (National Communication System, satellite/cell/radio), military infrastructures (network service interruptions, GPS jamming), health infrastructures / transportation (NAVCAN / runways /communications, water / power / energy infrastructure (chlorine content, water levels, fuel levels), manufacturing (private exchanges / components' integrity / shipping). He mentioned information operations activities involving Russia, China, Cuba, Japan, France, Germany, Iraq, Israel, and Bulgaria.

Marc defined 'Cyber-terror' as "The premeditated, politically motivated attacks against networked infrastructure components, resulting in violence against noncombatant targets in furtherance of political or social objectives." Tactics that may be employed include Denial of Service (such as exploiting Internet Protocol vulnerabilities, targeting top level routers, or prominent net information sources), DNS Cache Poisoning (corruption of addressing codes), Sniffing (interception engines which may have been installed for years), Session Hijacking (attacker injects his own data into the session, assuming the role of one of the parties), and many other attack schemes. Web statistical and routing information, often compromised by user abuse of privileges, can provide much useful information for designing attacks. In the same way, telephone lines, often used for control of hydro, nuclear, water, power and air-conditioning plants have been subjected to similar types of attacks. He discussed threat trends from 1980 to the end of the present decade, indicating that they are becoming more complex as attackers proliferate, at the same time intruder knowledge and attack sophistication required to mount the attacks is greatly decreasing.

Presentation



Debbie Wolfenden, AFCEA Ottawa President, presents a Certificate of Appreciation to Mark Fabro, AMS for his presentation at the luncheon.

**ADDRESS
CHANGE ?**

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



**Information Operations in the Canadian Forces
Dave Edmunds reports.**

He also displayed a matrix pointing out that the impact of an attack on one commercial critical many infrastructure can also seriously affect other infrastructures.

Mr. Fabro quoted Walter Laquer: "Why assassinate a politician or indiscriminately kill people when an attack on electronic switching will produce far more dramatic and long-lasting results." His conclusion was that creating defence for defeating global terror will demand effective Information Assurance (IA), and that today's IA is only feasible through effective information intelligence and correlation. He suggested the use of Intelligence and Correlation Engines (ICE) filtering of many intrusions detection systems, which are coordinated with reports from emergency response teams in a Cyber-Security Intelligence Collection Management System. He proposed that the problem of collecting and coordinating the problems that arise on each application system network could be most easily solved by appointing a broker at each network.

Marc summarized by stating that the continued use of commercial off-the-shelf equipment will contribute to the problem, that intelligence and correlation provide effective interpretation of security data, that the technologies to support ICE efforts and computer network defence are available today, and that senior level awareness is critical to success.

[Printed handouts of the key presentation slides were handed out at the meeting]

**UPCOMING EVENTS- "HEADS UP"
Check the website for details and direct booking/payment
arrangements**

- LUNCHEONS:** February 4th, 2003, Large Scale Outsourcing, Lessons Learned, Tracey Laurence, CSC
4th March, 2003, Internet Security and Government Departments, Brian O'Higgins
- DINNER DANCE:** 28th February, Leitrim Mess
- GOLF TOURNAMENT:** 22nd May, 2003, AFCEA Golf Tournament, Meadows Golf Course.

See the Web Site for details.

CORPORATE MEMBERSHIP- COMPANY PROFILES UPDATES

The Corporate Profile listing was launched on the Chapter website in December 2002. We intend to update this monthly as necessary. Please let us know if you would like any changes.

NEXT OTTAWA CHAPTER LUNCHEON MEETING

BRING A Colleague, Friend or Young AFCEAN

February 4th, 2003

TIME & LOCATION

RCAF Officers' Mess, 158 Gloucester Street, Ottawa

SPEAKER

**Tracey Lawrence
CSC**

SUBJECT

Large Scale Outsourcing, Lessons Learned

BOOKING ARRANGEMENTS

Please check the Chapter website promptly for details and booking arrangements. Space is limited.

Cost: \$15.00/person for industry or \$5.00/person for government employees. Pay by credit card (see below) or by cash or cheque at the door.

METHODS OF PAYMENT FOR LUNCHEONS & EVENTS

There are three methods of payment available for your use at: <http://www.afcea.ca/>

Members who wish to pay in advance for their chapter luncheon or for a table using their credit card (Visa, MasterCard or AMEX) can download the form, sign it and fax it to the AFCEA Ottawa Chapter - Administration Services: (613) 594-8717.

Payment will be acknowledged by email and a receipt will be mailed.

YOUR INPUT-NEWSLETTER SUBMISSIONS

In keeping with the 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 articles, comments and contributions. Letters to the Editor are most welcome.

Please feel free to submit your 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 the opportunity to let AFCEAN's worldwide know what you and your Chapter are doing.** If you have any questions concerning the appropriateness of a submission please do not hesitate to contact the AFCEAN Editor. **James McGibbon @ 787-4684** or mail to: James.McGibbon@eds.com