



# ***CENTRE FOR NATIONAL SECURITY***

**--Research Mission on Cyber Security--**

**Wednesday, November 3<sup>rd</sup>, 2010**

## **PERILS OF A CYBER SOCIETY**

**Symantec Corp.  
2800 Eisenhower Ave., Alexandria, VA 703-373-5101**

**Dress: Business Casual**

### **You should know:**

Coffee and muffins will be available at Symantec. Should you wish something heartier, please have breakfast on your own either through room service (available 24 hours) or at the Cinnabar restaurant located 2<sup>nd</sup> floor - open from 6:00 a.m. – 3:00 p.m.

Photo ID required for security check-in

**7:20 a.m.                      Meet in Lobby**

**7:30 a.m.                      Departure to Symantec**  
2800 Eisenhower Ave., Alexandria, VA  
703-373-5101

### **Georgetown Conference Room (located on the 2<sup>nd</sup> floor)**

**8:15 – 8:30 a.m.              Welcome**

**Gilles Rheaume**  
Vice-President, Public Policy  
The Conference Board of Canada

**8:30 – 10:00 a.m.            Presentation and Discussion: Securing Cyberspace: Institutional and International Responses**

**Vinton Cerf**  
Vice-President and Chief Internet Evangelist  
Google Inc.

As one surveys the cyber-security landscape, it is hard to avoid the fact that this is a complex ecosystem made up of diverse moving parts, including national governments. Apart from the technical challenges that network and system security pose, there are operational issues such as weak or naive browsers that run at too high a level of privilege. There are specific remedies for some of these ills but the most complex matters will pit international organizations against one another. In this talk, Vint will try to characterize both the nature of the institutional responses seen and the technological needs at least in skeletal form.

**10:00 – 10:30 a.m.    Health Break**

**10:30 – 12:00 p.m.    Official Welcome, Introductions and Tour Briefing**

**John Neily**

Director, National Security and Public Safety  
The Conference Board of Canada

**12:00 – 12:45 p.m.    Networking Lunch hosted by Symantec**

**12:45 – 2:30 p.m.    Symantec Presentation and Discussion: *Knowing Your Enemy: Techniques and Tactics in Today's Threat Landscape***

**Tiffany Jones**

Director, Public Sector Strategy Programs  
Symantec

This presentation will offer an overview of Symantec's Internet Security Threat Report, a synopsis of the attack trends, and overview of the tactics and techniques of these threat actors so you can better understand your enemy.

**2:30 – 4:15 p.m.    Presentation and Discussion: *Strategic and Economic Consequences of Cyber Insecurity***

**Scott Borg**

Director and Chief Economist  
US Cyber Consequences Unit

Scott Borg will explain how cyber security issues can be approached in a systematic and quantitative fashion that provides a clear and easily defensible basis for policy choices. He will show how analyzing cyber threats in terms of the prospective attackers, their motives, their targets, and their capabilities can provide a sound guide to the likelihood and frequency of various attacks in the absence of actuarial data. He will outline how the consequences of cyber attacks can be accurately quantified by a value-creation-based approach that considers the extent of the effects, what systems and activities substitute when others are attacked, the duration of the effects, and the sort of dependencies that can produce cascading effects. He will explain how the degree of vulnerability to these consequences can be estimated by looking at the various steps that a cyber attacker needs to carry out, the skill levels required for each, and the measures in place for raising the required skill levels. These three

components — threat, consequence, and vulnerability — can then be combined, he will show, to produce estimates of the annualized expected losses from cyber attacks under different conditions. While many of these prospective losses from cyber attacks have been wildly exaggerated, others, he will show, are now looking frighteningly great. Finally, he will show that the public policy options for dealing with these prospective losses are more varied and extensive than is usually assumed, especially when government actions are used in conjunction with market mechanisms.

**4:15 – 4:30 p.m.      Health Break**

**4:30 – 5:45 p.m.      Presentation and Discussion: *Current Approaches and their Shortcomings***

**Seymour (Sy) Goodman**

Professor, College of Computing & The Sam Nunn School of International Affairs  
Georgia Institute of Technology

Sy will approach his presentation and discussion from the perspective of a concerned citizen or organization that has become coerced and cajoled into great dependency on "cyberspace".

**5:45 – 6:15 p.m.      Debrief and Wrap-Up**

**6:20 p.m.              Depart Symantec for Restaurant**

**6:45 p.m.              Casual Networking Dinner  
RT's Restaurant**

3804 Mt. Vernon Ave., Alexandria, VA  
703-684-6010 <http://www.rtsrestaurant.net/index.html>

This "Little Gem," Alexandria's renowned neighborhood restaurant has been the place for fresh seafood in northern Virginia for over 23 years. RT's has been a fixture on the Washington Magazine's "Top 100 Restaurants" list and is one of the highest rated seafood restaurants in the nationally acclaimed "ZAGAT Survey."

**Thursday, November 4<sup>th</sup>, 2010**

**CYBER RISK AND GOVERNANCE**

**20F Street, NW Conference Center  
Washington, DC 202-672-1515**

**Dress: Business Attire**

**You should know:**

Coffee and muffins will be available at the meeting location should you wish something heartier, please have breakfast on your own either through room service (available 24 hours) or at the Cinnabar restaurant located on the 2<sup>nd</sup> floor - open from 6:00 a.m. – 3:00 p.m.

Don't forget your workbooks.

**7:45 a.m. Meet in Lobby**

**7:50 a.m. Departure to Meeting Location**

**Conference Room B (located on the 1<sup>st</sup> floor – last meeting room on the left)**

**8:30 – 8:45 a.m. Welcome, Introductions and Review of Day's Agenda**

**John Neily**

Director, National Security and Public Safety  
The Conference Board of Canada

**8:45 – 10:15 a.m. Presentation and Discussion: *Governance Models for Cyber Security***

**Myriam Dunn Cavelty**

International Relations and Security Studies, ETH Zurich  
New Risks Research Unit, Center for Security Studies (CSS), ETH Zurich

In this presentation, we will look at commonalities and differences between different countries' approaches to cyber security. It will be shown that the strategies and policies differ considerably with regard to the question what should be protected from which threat. Furthermore, we will look at the proposed responses to cyber threats. Even though the policies differ with regard to the question who threatens what, they usually propose similar concepts to respond to cyber vulnerabilities. Common response strategies include the formation of Public-Private Partnerships (PPPs); efforts to strengthen coordination between the different agencies that are assuming tasks in the field; campaigns to increase public awareness for cyber security; and attempts to improve international collaboration. It will be briefly discussed how these protection and prevention measures are defined and which are the most relevant challenges that need to be addressed in order to implement them.

In particular, the presentation will address a new and above all broader approach to public-private cooperation to help solve some of the problems that have become apparent. Based on the network approach developed by governance theory, it is argued that cyber security policy should increasingly rest on self-regulating and self-organizing networks. Thus, the government's role would no longer consist in directing and monitoring, but of coordinating the networks and identifying instruments that can help motivate networks to meet the task of cyber security.

**10:15 – 10:45 a.m.    Networking Break**

**10:45 – 12:15 p.m.    Presentation and Discussion: *The Role and Challenges of Cyber Security in International Trade and Foreign Investment***

**Nova Daly**

Public Policy Consultant  
Wiley Rein LLP

Knowledge is power; and power, like nature, abhors a vacuum. The growth of the internet has introduced a new vacuum –cyber security- and with it, a 5<sup>th</sup> dimensional threat to global power structures for national and economic security. Global trade and investment have already been affected by the methods by which states and businesses are managing this threat. However, more fundamental changes are inevitable. And unthinkable as it may be, should a major cyber catastrophic event occur, as some prognosticators believe it will, we are on the verge of unimaginable changes for commerce and privacy. For the discussion, Nova will address three key considerations:

1. What is the nature of the global cyber threats that nations and businesses are facing (*i.e.*, criminal, terrorist and state sponsored),
2. How are these threats affecting and interconnected to trade and investment policy for the United States, Canada and other nations, and
3. What are the plausible end roads and consequence of these policy choices on businesses, governments and individuals.

**12:15 – 2:30 p.m.    Networking Lunch and Presentation: *The Two Most Important Questions in Cybersecurity***

**Jeffrey Carr**

CEO, Taia Global Inc.  
Author of "Inside Cyber Warfare"

Unlike the United States, the European Union and other Western nations, Russian and Chinese military writers generally do not use the term "Cyber Warfare", preferring "Information Warfare" or "Informatized Warfare" instead. This is a significant difference; understanding it may better inform those who are still struggling to fit the round peg of Cyber Warfare into the square hole of the Western way of war.

For example, the People's Republic of China considers the United States a technologically superior adversary and is simultaneously dependent upon U.S. consumers and the support of U.S.-based multinational corporations. What is the appropriate military strategy for a nation that finds itself in such a position? In this presentation Jeffrey will explain how cyber warfare is actually being conducted today in such a way as to avoid being recognized as warfare at all. I'll also offer some advice on how to mount a defense against it.

**2:30 – 3:00 p.m.**      **Break and arrival of members from the U.S. Chamber of Commerce**

**3:00 – 5:30 p.m.**      **Joint meeting with U.S. Chamber of Commerce:**

**Industry Panel Discussion: *Business and Cyber Security – View from the Inside***

**Panelists include:**

Ret. Lt. General **Harry Raduege**, Chairman for Deloitte Center for Cyber Innovation and Senior Counselor to The Cohen Group

**Gregory Garcia**, Partnership Executive and Senior Vice-President, Cybersecurity and Identity Management, Bank of America

**Marcus Sachs**, Executive Director, National Security and Cyber Policy, Verizon

**Michael Alagna**, Director Homeland Security Strategic Initiatives & Policy, Motorola

**Moderated by:**      **Jim Payne**, Senior Vice-President/General Manager, National Security and Cyber Infrastructure, Telcordia Technologies Inc.

**5:30 – 6:00 p.m.**      **Travel to the Canadian Embassy**

**6:00 – 9:00 p.m.**      **Arrival, Reception and Networking Dinner**

**Hosted with the Canadian Embassy**

501 Pennsylvania Avenue, NW  
Tel.: (202) 682-1740

**Fireside Chat: *Meeting common security challenges in cyberspace***

**William Baker**

Deputy Minister, Public Safety Canada

**Howard Schmidt**

Special Assistant to the President, Cyber Security Coordinator, Executive Office of the President

**Moderated by:**      **Gilles Rheaume**, Vice-President, Public Policy, The Conference Board of Canada

Friday, November 5<sup>th</sup>, 2010

**FREEDOM AND SECURITY IN CYBERSPACE**

Hyatt Crystal City, at Reagan International Airport  
2799 Jefferson Davis Highway, Arlington, VA 703-418-1234

Dress: Casual

**You should know:**

Full hot breakfast will be available in the Tidewater 2 Room (located on the 2<sup>nd</sup> floor) from 7:15 a.m. Don't forget your workbooks  
Check-out time is 12:00 p.m. (noon) – ½ hour mid morning break to allow time for check-out – bring luggage to meeting room with you

**Room: Tidewater 2 (located on 2<sup>nd</sup> floor)**

**7:15 a.m.                      Networking Hot Buffet Breakfast**

**8:00 – 9:30 a.m.            Presentation and Discussion: *Freedom and Security in Cyberspace***

**Lee Tien**

Senior Staff Attorney  
Electronic Frontier Foundation (EFF)

Lee Tien will cover recommendations that the Electronic Frontier Foundation has made to the White House, including: cybersecurity programs; analytical risk assessments; privacy and civil liberties; and the importance of accountability and public record of steps taken to improve transparency as a type of cultural shift.

**9:30 – 10:00 a.m.            Break – an opportunity for participants to check-out of hotel**

**10:00 – 12:00 p.m.        Panel Presentation and Discussion: *Major Cyber Crimes: From Investigation to Adjudication***

**Michael DuBose**

Chief, Computer Crime and Intellectual Property Section, Criminal Division    U.S.  
Department of Justice

**Gordon Snow**

Assistant Director, Cyber Division  
Federal Bureau of Investigation (FBI)

**Moderated by:** **Andrew Easton**, Provincial Security Advisor and Director, Security and Emergencies Directorate, New Brunswick Department of Public Safety

**12:00 – 12:30 p.m.** **Working Buffet Lunch**

**12:30 – 2:30 p.m.** **Roundtable Discussion: From Questions to Answers**

Participants will work through a set of three key questions.

**2:30 p.m.** **Adjournment**