

FISSEA March 25, 2009



Dr. Vic Maconachy

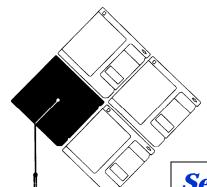
Vice President for Academic Affairs and CAO

Capitol College

wvmaconachy@capitol-college.edu

Phone 301.369.2542

While America Slept: The Human Element of **National Cyber Readiness**







Serving the Federal Sector Since 1987 –22 Years....

Look how far you have come!

Remember the diskette logo?

Remember the decision to keep the conference fee VERY affordable?

First to recognize the contributions of IA educators and trainers!

So many contributors:

Phil Sibert
Doothea de Zafra
John Tressler
John Ippolito
Sadie Pitcher
Mark Wilson
George Bieber
Roger Quan
Kelly Arnold
And, of course...Lou Numkin

And many others.....



Last Year:

We spoke of Silos of excellence



This Year:

 We will address the critical role of ALT & E in cyber work force readiness.







The U.S. needs leaders who understand the need for creating and implementing strategies of resiliency, or methods for ensuring that basic structures and systems of global, national, and local economies remain strong even after a cyber attack or other malicious acts or acts of war.



Growing Up in the 50's



Were we caught sleeping?

The nature of warfare was changing.



The latest trends in cybercrime Latest global report on cyber crime, published in Estonian media showed some worrying trends:



- >-Cyber criminals enjoy practical immunity in countries such as Russia and China.
- > -The strategical planning of cyber criminals become more and more sophisticated, but the Governments remain slumbering and ignorant on dealing with the issue.
- > -One of the greatest challenges for dealing with the issue of cyber crime is absence of relevant international law.
- >-The law regulating e-commerce is especially insufficient.
- >-Collecting the digital evidence and managing it in courts is unfortunately also inept.
- >-The number of so-called spamming zombie-computers has quadrupled during the last quarter. They are able to send 100 billion spam messages daily.
- >-E-criminals are among the winners of global economic recession.
- >-There are already more than 7500 websites in the Internet directly under the control of terrorists.
- >-Cyber criminals will very soon be capable of attacking a country's electrical, water and gas supplies and internet banking systems.





What does this NATO report mean?

- 1. Speaks to the INTERNATIONAL cyber arena
- 2. Translates to the NATIONAL level
- 3. Appears at the PERSONAL level

Our shoreline no longer defends us!



What can we do?



Progress to date:

- 1.Academia
- 2.Industry
- 3.Government





Dartmouth College Report



- Collaborative
 Approach
- Security Metrics
- International Framework
- Human Dimension of Cyber Security



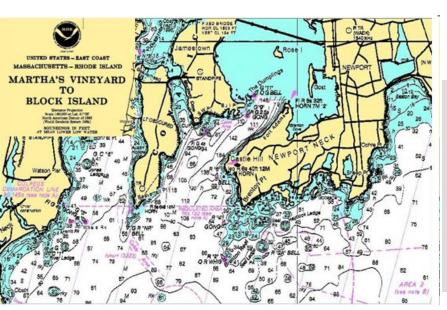




Current State of IA in Academia:

Unlike the 50's I A as a field of study is relatively undefined SO:

- 1. We need to recruit and educate a corps of IA teachers
- 2. Academic I A research needs a major infusion of funds





Ships are lost for many reasons, including:

- •failure of the ship's equipment
- instability
- navigation errors
- bad weather
- •warfare and piracy

??: Is cloud computing equated to ship navigation??
If so, what comparable security measures should be in place?
If so, should this be regulated?



Computers are compromised for many reasons:

Software issues Hardware issues Operator error

Malware

Attacks, bots, etc...



How Will History Judge Us?

- Can we move from credentialing to professionalization?
- Will we invest enough and in time?
- Will what we do
 make a positive
 difference for future
 generations?









The 13th Colloquium for Information Systems Security Education June 1-3, 2009

Red Lion Hotel on Fifth Avenue Seattle, Washington

"Bootcamp" May 31st.



http://cisse.info/current/registration/registration.html