NICE
NATIONAL INITIATIVE FOR
CYBERSECURITY EDUCATION

NIST Information Security and Privacy Advisory Board

October 26, 2011

NICE Structure

- Interagency Process led by NIST

- Component 1: Cybersecurity Awareness (DHS)

- Component 2: Formal Cybersecurity Education (NSF, Dept of Education)

- Component 3: Cybersecurity Workforce Structure (DHS)

- Component 4: Cybersecurity Workforce Training and Development (DHS, DOD, ODNI)

NICE Accomplishments

- Completed the public review period on October 3rd for the draft Strategic Plan

- Introduced the NICE Cybersecurity Workforce Framework for public comment until December 2011.
  - The framework can be overlaid onto any organization's existing occupational structure and is designed to baseline capabilities, identify skill gaps, develop cybersecurity talent in the workforce, and prepare the pipeline of future talent.

- Hosted 2nd Annual NICE Workshop, "Shaping the Future of Cybersecurity Education – Engaging Americans in Securing Cyberspace", with over 300 attendees from academia, government and industry.

- Promoted NICE at over 100 events around the country as keynote speakers, panelists, presenters, and instructors.

- Established a MOU between the Department of Education, NIST, and the newly formed National Cybersecurity Education Council.

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Planned NICE Activities (1 of 2)

- Finalize NICE Strategic Plan describing the objectives, outcomes, and strategies for the goals:
    1. Raise awareness among the American public about the risks of online activities.
    2. Broaden the pool of skilled workers capable of supporting a cyber-secure nation.
    3. Develop and maintain an unrivaled, globally competitive cybersecurity workforce.

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- Publish a coordinated, annual program plan that details the efforts and milestones to be accomplished, along with the resources to be utilized and the metrics associated with each effort/milestone.

- Promote the Federal adoption of the NICE Cybersecurity Workforce Framework

- Host the Federal Information Systems Security Educators' Association Conference (FISSEA)- "A New Era in Cybersecurity Awareness, Training, and Education"
  - March 27-29, 2012
  - Call for Speakers due date for submissions is December 2, 2011

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Component 1: Cybersecurity Awareness

- October has been designated as National Cyber Security Awareness Month (NCSAM). The Department of Homeland Security (DHS) coordinates all NCSAM activities to engage public and private sector stakeholders, as well as the general public, to create a safe, secure, and resilient cyber environment. Since 2004, NCSAM has been formally recognized by Federal, state and local governments, as well as industry and academia. In 2010, governors from across the country joined President Obama in signing proclamations declaring October NCSAM.

NCSAM 2011 Themes

In 2011, the overarching theme will remain "***Our Shared Responsibility***" to reflect the interconnectedness of the modern world and the message that all computer users have a role to play to secure cyberspace.

- *First Week, October 3-7, 2011 -- Our Shared Responsibility and Stop. Think. Connect. (STC)*
  - Event: The NCSAM kickoff event will be held at Michigan's Cyber Summit. **Date is October 7, 2011 in Ypsilanti, MI.**

- *Second Week, October 10-14, 2011 -- Formal Education and Workforce Development*
  - Event: An event which highlights polling results related to formal cyber education and workforce development and encourages a public discussion regarding an increase in cyber education at all levels – K-12, higher education, and within the workforce. **Date is October 13 at Google Headquarters in Mountain View, CA.**

- *Third Week, October 17-21, 2011 – Cybercrime and Law Enforcement*
  - Events:
    - A senior-level roundtable with representatives from Government; Industry and Financial Sectors; as well as Law Enforcement. **Date is October 18 at the NASDAQ in NYC. (Invite only)**
    - A second event would be at the local level with the inclusion of what local law enforcement groups are doing to combat cyber crime and information for victims of cybercrime. **Date is October 20 in San Antonio, TX at the USAA Facility.**

- *Fourth Week, October 24-28, 2011 – Online Security for Small and Medium Sized Businesses*
  - Event: Small business focused event with the Chairman of FCC and DHS. Morning component would be Federal, high-level discussion. **Date of event is October 24 at the US Chamber of Commerce in DC.**

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Key Messages: National Cyber Security Awareness Month

• Today, we are more interconnected than ever before. Yet, for all its advantages, increased connectivity brings increased risk of theft, fraud, and abuse. No country, industry, community or individual is immune to cyber risks.

• Cybersecurity is a shared responsibility, and each of us has a role to play. Emerging cyber threats require the engagement of the entire society—from government and law enforcement to the private sector and most importantly, members of the public.

• National Cyber Security Awareness Month (NCSAM) is an opportunity to engage public and private sector stakeholders, as well as the general public, to create a safe, secure, and resilient cyber environment.

• Here at [insert Dept/Agency], we work to [insert information regarding specific cyber mission areas and/or ties to critical infrastructure].

• The key to ensuring our cyber resiliency is to educate Americans on the simple steps they can follow to keep themselves, their identities, and information safe online:

> o Set strong passwords, and don't share them with anyone.
> o Keep your operating system, browser, and other critical software optimized by installing updates.
> o Maintain an open dialogue with your children about Internet safety.
> o Limit the amount of personal information you post online, and use privacy settings to avoid sharing information widely.
> o Be cautious about what you receive or read online – if it sounds too good to be true, it probably is.

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URL's referenced

- http://csrc.nist.gov/nice/index.htm
- http://csrc.nist.gov/nice/framework/
- http://csrc.nist.gov/nice/Sept2011-workshop/index.html?https://www.fbcinc.com/nist_Cyber/atreg1.aspx
- http://csrc.nist.gov/nice/documents/nicestratplan/Draft_NICE-Strategic-Plan_Aug2011.pdf
- http://www.dhs.gov/files/programs/gc_1158611596104.shtm
- http://staysafeonline.org/
- http://msisac.cisecurity.org/resources/toolkit/oct11/index.cfm