

SHAPING THE FUTURE OF CYBERSECURITY EDUCATION

NIST
Gaithersburg, Maryland
August 11-12, 2010
Agenda

Wednesday, August 11, 2010

8:00 am - 8:20 am **Registration and Coffee - NIST**

Opening: Green Auditorium

8:20 am - 8:30 am

[Matthew Scholl](#), Manager, Security Management and Assurance Group, Computer Security Division, Information Technology Laboratory (ITL), NIST

8:30 am - 8:45 am

Welcome:

[Cita M. Furlani](#), Director, Information Technology Laboratory (ITL), NIST

8:45 am - 9:15 am

NICE Overview:

[Dr. Ernest McDuffie](#), Program Lead, National Initiative For Cybersecurity Education (NICE), NIST

9:15 am - 9:45 am

Keynote:

(Presentation)

[Dr. Bharat T. Doshi](#), Director of the Milton S. Eisenhower Research Center (MERC), The Johns Hopkins University Applied Physics Laboratory

Cyber Security involves careful attention to the overall architecture, hardware and software designs and development, supply chain management, continuous monitoring of trustworthiness, various operational and management policies and tools, and diligence in the user community. Therefore, building a responsible user base and a competent work force requires a multi-faceted education, vocational training, and continuing professional development. Dr. Bharat Doshi will bring his experiences as a researcher, an educator, and an R&D manager to discuss his views on these aspects from different angles.

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9:45 am - 10:30 am

Track 1: National Cybersecurity Awareness

The Department of Homeland Security is the agency leading the development and execution of the Campaign, which is aimed at raising awareness about cybersecurity, ultimately increasing the understanding of cyber threats and empowering the American public to be prepared and secure. The Campaign will kick off in October 2010, in conjunction with National Cybersecurity Awareness Month.

Speaker(s): DHS

(Presentation)

Bruce W. McConnell, Cybersecurity Counselor to Deputy Under Secretary Philip Reitinger
National Protection and Programs Directorate (NPPD)
U.S. Department of Homeland Security

10:30 am - 10:50 am

Break - (Breakout sessions -sign up)

10:50 am - 12:05 pm

Track 2: Formal Cybersecurity Education Overview

The Education team is supporting development of education programs encompassing K-12, higher education, and vocational programs related to cybersecurity. The focus is on the science, technology, engineering, and math disciplines in order to help provide a pipeline of skilled workers for private sector and government.

Speaker(s): DoED, OSTP & Partners

10:50 am - 11:05 pm

Mr. Harley A.J. (Bucky) Methfessel, Senior Counsel for Information and Technology in the Office of the General Counsel (the OGC), US Department of Education.

11:05 am - 12:05 pm

(Presentation)

Dr. Robert J. Spear, PI and Director, CyberWatch Center, Prince George's Community College; and

Dr. Davina Pruitt-Mentle Executive Director and senior researcher and policy analyst for Educational Technology Policy, Research and Outreach (ETPRO), and CyberWatch Co-PI for K-12 Programs

Presentation: **"How to Share the Wheel"** -- we (that is, the United States) do not need to invent the wheel, and should not spend tax dollars reinventing it; rather, we already have the wheel, and now just need to share it, and get schools to use it.

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12:05 pm -12:50 pm **Special Guest Speaker:**
[Michael Kaiser](#), Executive Director, National Cyber Security Alliance

12:50 pm -1:50 pm LUNCH - (Breakout sessions -sign up)

1:50 pm - 2:45 pm
(Presentation)
[Kevin Parra](#), Marketing Manager, Global Government Solutions Group Cisco Systems, Inc

2:45 pm - 3:15 pm
Track 3: Federal Cybersecurity Workforce Overview
The Workforce team will define cybersecurity jobs in the federal government and skills and competencies required. They will also identify new strategies to ensure federal agencies attract, recruit, and retain skilled employees to accomplish cybersecurity missions.
Speaker(s): OPM

(Presentation)
[Maureen B. Higgins](#), Assistant Director, Agency Support, and Technical Assistance, Office of Personnel Management

3:15 pm - 3:35 pm BREAK - (Breakout sessions - sign up)

3:35 pm - 4:50 pm
Track 4: Cybersecurity Workforce Training and Professional Development
Set standards and strategies for National Cybersecurity training and professional development to help develop and sustain a qualified national cyber-related workforce, in collaboration with private industry, academia, and interest groups as well as Federal, State, local and tribal partners.

Deliverable: 30 minute presentation on the structure, approach and progress of Track 4

Speaker(s): DoD, ODNI, DHS & Partners

(Presentation)
[John Mills](#), OSD/NII Special Assistant for the National Cybersecurity Initiative and Co-lead for Track 4, Cybersecurity

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Workforce Training and Professional Development.

Industry guest panel (ISC2) to present: the CISO survey (report released publicly addressing the major concerns of the Federal CISOs), industry concerns related to cyber workforce, and collaboration goals and objectives.

On the heels of the release of its the second comprehensive survey report of federal Chief Information Security Officers (CISOs), (ISC)2 and distinguished panelists from industry and government will discuss how CISOs view the current and future state of agency programs, what they see as the biggest threats and the necessary solutions and what other issues concern them going forward. The panelists will also provide additional insight on how these findings tie into the Administration's goals for cybersecurity and what they mean for the information security profession and efforts to build a top information security workforce within the federal government.

Introduction: [Peggy Maxson](#), DHS, Director, National Cybersecurity Education Strategy and Co-lead of Track 4.

Moderator

[\(Presentation\)](#)

[Hord Tipton](#) – Executive Director, (ISC)²

Panelists

[Patty Edfors](#) — Principal, Banrion Consulting

[Fred Newberry](#) — Client Solutions Director – Cyber Security National Programs, Cisco

[Dr Ernest McDuffie](#) - Program Lead, NIST NICE

4:50 pm - 5:00 pm

Adjourn - Closing Remarks

[Ernest McDuffie](#), Program Lead, NIST
National Initiative For Cybersecurity Education (NICE)

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Thursday, August 12, 2010

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8:00 am - 8:30 am

Registration and Coffee

Welcome and Logistics - Green Auditorium

8:30 am - 8:40 am

Matthew Scholl, Manager, Security Management and Assurance Group, Computer Security Division, Information Technology Laboratory (ITL), NIST

8:40 am - 9:45 am

Introduction: **Peggy Maxson**, DHS, Director, National Cybersecurity Education Strategy and Co-lead of Track 4.

8:45 am - 9:30 am

Keynote:

Dr. Richard Marshall, Director, Global Cybersecurity Management, DHS

9:30 am - 9:45 am

Break

9:45 am - 12:15 pm

BREAKOUT SESSIONS: WORKING GROUPS

Track 1 National Cybersecurity Awareness:

No breakout session scheduled

**Track 2: Formal Cybersecurity Education:
Lecture room B**

9:45 am - 12:15 am

Dr. Chris L. Greer, Assistant Director for Information Technology R&D Office of Science and Technology Policy, Executive Office of the President and

Mr. Harley A.J. (Bucky) Methfessel, Senior Counsel for Information and Technology in the Office of the General Counsel (the OGC), US Department of Education.

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9:45 am - 12:15 am

Track 3: Federal Cybersecurity Workforce: Lecture room A

[Patricia Esslinger](#), Groupware Facilitator

Will facilitate an interactive session using your experiences as a job-seeker or hiring manager. We'll focus on Federal cybersecurity workforce success stories, hiring challenges, and proposed solutions. Sessions will be conducted using collaborative meeting technology, with networked computers providing simultaneous keyed-in comments and an electronic big screen display. You can offer LOTS of input and share ideas with colleagues who've also "been there."

9:45 am - 10:45 am

Track 4: Cybersecurity Workforce Training and Professional Development: Employee Lounge

Facilitator: [Peggy Maxson](#), DHS, Director, National Cybersecurity Education Strategy and Co-lead of Track 4.

Guided Government and Industry guest panels to present: Cybersecurity workforce and education/training issues in their areas

Industry Panel Discussions

[Alan Paller](#), Director of Research, SANS

[Dr Steven P. Bucci](#), Associate Partner, Lead for Cyber Global Leadership Initiative, IBM Public Sector, Global Business Service, IBM,

[Barbara Lawrence](#), Manager of Cyber Intelligence, Northrop Grumman

[Dr. Vernon Ross](#), Director of Talent and Organizational Capability for the Information Systems and Global Solutions Business Area , Lockheed Martin

[Dave Martin](#), Chief Security Officer, EMC2

10:45 am - 11:45 am

Government Panel Discussions

[Shawn Flinn](#), Director, Human Capital Policy and

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Programs, DHS

[Susan Hansche](#), IA Training, Avaya Government Solutions, DOS

[Dr. Jane Homeyer](#), Assistant Associate Director of National Intelligence for Human Capital, Program Development and Integration and Co-lead of Track 4.

[Dr. A. Reese Madsen](#), DoD Intelligence, Chief Learning Officer

[Dr. Ernest McDuffie](#), Program Lead, National Initiative For Cybersecurity Education (NICE), NIST

11:45 am - 12:15 pm

Joint Panel Discussions with audience participation.

12:15 pm - 1:15 pm Lunch

1:15 pm - 3:30 pm

BREAKOUT SESSIONS WORKING GROUPS

Track 1 *National Cybersecurity Awareness:*

No breakout session scheduled

1:15 pm - 3:30 pm

Track 2: Formal Cybersecurity Education:

Moderator: [Mr. Harley A.J. \(Bucky\) Methfessel](#), Senior Counsel for Information and Technology in the Office of the General Counsel (the OGC), US Department of Education.

[Dr. Robert J. Spear](#), PI and Director, CyberWatch Center, Prince George's Community College; and

[Dr. Davina Pruitt-Mentle](#) Executive Director and senior researcher and policy analyst for Educational Technology Policy, Research and Outreach (ETPRO), and CyberWatch Co-PI for K-12 Programs

[Dr. Vernon Ross](#), Director of Talent and Organizational Capability for the Information Systems and Global Solutions Business Area , Lockheed Martin

2:30 pm - 3:30 pm

Track 3: Federal Cybersecurity Workforce:

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Facilitated interactive session

[Patricia Esslinger](#), Groupware Facilitator

Track 4: Cybersecurity Workforce Training and Professional Development:

Track 4 (ODNI/CHCO) Presentation of Cyber workforce “Professional Development Model” and discussions.

[Dr. Jane Homeyer](#); Assistant Associate Director of National Intelligence for Human Capital, Program Development and Integration.

Track Four Functional Areas 1, 2, 3 presentations interactive discussions and best practices observed

[Peggy Maxson](#), DHS, Director, National Cybersecurity Education Strategy. Leads Functional Area 1 and 2 discussion

[Matt Parsons](#), Director, Defense Cyber Investigations Training Academy briefs Functional Area 3

3:30 pm - 3:50 pm BREAK

3:50 pm - 4:50 pm Working Group Summary Presentations:

Green Auditorium

[Track 2](#): DoED, OSTP – [Dr. Davina Pruitt-Mentle](#)

Track 3: OPM - [Patricia Esslinger](#),

[Track 4](#): DoD, ODNI, DHS - [W.P. “Bear” Ard](#)

4:50 pm - 5:00 pm Adjourn - Closing Remarks