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NSCI: High-Performance Computing Security Workshop

WHEN:	WHERE:
Sep. 29-30, 2016	NIST Gaithersburg
Start Time: 8:30am	100 Bureau Drive
End Time: 6:00pm	Gaithersburg, MD 20899

AGENDA

	Thursday, Sep. 29, 2016 Building 101, Green Auditorium	
		Topic
8:30 – 8:40	Chuck Romine (NIST)	Welcome to NIST and the Information Technology Laboratory
8:40 – 8:50	Tim Polk (OSTP)	NSCI and Workshop Goals
8:50 – 9:10	Chuck Romine (NIST)	HPC Expert on Why Security Matters
9:10 – 9:30	Sean Peisert (Berkeley Lab)	Security Expert on Why HPC Matters
9:30 – 9:50	John West (Texas Advanced Computing Center)	HPC Current Use and Practice: HPC Center what's the application, user community, system architecture how to trade usability against security? what to worry/not-worry about wrt security
9:50 – 10:10	Networking Break	
10:10 – 10:30	Buddy Bland (Oak Ridge)	 HPC Current Use and Practice: USG what's the application, user community, system architecture why is HPC needed in this use case? how to trade usability against security? what to worry/not-worry about wrt security
10:30 – 10:50	David Pellerin (Amazon)	HPC Current Use and Practice: Industry
10:50 – 11:10	David Kahaner (Asian Technology Information Program)	A Snapshot of Advanced Computing Developments in China and Japan
11:10 – 11:20	Matt Barrett (NIST)	 The NIST Security Framework for Critical Information Systems (presentation) might cause some shared terminology we can explain that all the areas are needed
11:20-11:40	Tom Hinke (NASA)	Securing NASA's Most Powerful Supercomputer

DRAFT

11:40 – 1:00	Breakout Session: "HPC Security Best Practices: Strengths and Weaknesses" • multiple rooms, same topic	
1:00 – 2:00	Break for Lunch	
2:00 – 3:20	Breakout Session: Open Science and the Insider Threat: Can They Be Reconciled? • multiple rooms, same topic	
3:20 – 3:40	Networking Break	
3:40 – 5:00	Breakout Session: What New Hardware/Software Features and Architectural Structures Would Revolutionize Security for HPC? • E.g., what is current HW cutting edge, and what is on the way • Multiple rooms, same topic	
5:00 - 5:20	Announcements and Feedback	
	adjourn	
5:20 - 5:40	Hotwash (just organizers)	

	Friday, Sep. 30, 2016 Building 101, Green Auditorium	
8:30 – 8:40	Announcements. Feedback Forms Distributed.	
8:40 - 10:10	Breakout Group Report Outs	
10:10 – 10:40	Phil Colella (OSTP)	Security opportunity/challenge of high performance computing (keynote)
10:40 – 11:00		Networking Break
11:00 – 11:20	Angelos Keromytis (DARPA)	System and Application Monitoring (presentation)
11:20 – 12:00	Lee Beausoleil (NSA) (moderator)	Panel. HPC monitoring: how detailed can it be? What problems would fine-grained monitoring solve? Can data provenance be maintained through monitoring? David Lombard (Intel), Sean Peisert (Berkeley Lab), Angelos Keromytis (DARPA)
12:00 - 1:00	Break for Lunch	
1:00 – 1:10	Lee Beausoleil	Agency Perspective: NSA
1:10 – 1:20	Robinson Pino	Agency Perspective: DOE
1:20 – 1:30	Anita Nikolich	Agency Perspective: NSF
1:30 – 1:40	Lee Badger	Agency Perspective: NIST
1:40 – 1:50	Reed L. Mosher	Agency Perspective: DOD

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1:50 – 2:30	Carl J. Williams (NIST) (moderator)	Panel. Revisit:
adjourn		