



*Workshop*

# **ACCELERATING TRUSTWORTHY INTERNETWORKING (ATI)**

**TESTBEDS FOR CRITICAL AND PERVASIVE APPLICATIONS**

September 3-5, 2002

HP Corporate Headquarters  
Building 20, Auditorium  
3000 Hanover Street  
Palo Alto, CA 94304

**Hosted by  
Hewlett-Packard**

---

## **PURPOSE**


The workshop is focused on initiating cooperative activities across academia, industry, and government to develop and deploy advanced information technologies to help achieve strategic advantage over the 9/11 Global Challenges of the 21<sup>st</sup> century.

## **ATI WORKSHOP BACKGROUND**

Driven by a post-9/11 urgency to address Global Challenges, the goal of this workshop is to accelerate progress towards high-grade commercial security for internetworking applications, including its explicit design throughout the system.

There is a growing recognition of the increased potential value to users and developers of a new generation of trustworthy internetworking capability for critical and pervasive applications. Federated IPv6 and IPv4/IPsec testbeds with enhanced security are emerging to provide the bitways for a global grid of dynamic services. Families of interactive devices for humans along with sensors and effectors in the physical world provide a dynamic cyber-physical space interface.

A new trustworthy internetworking system architecture is emerging as ensembles of generalized peer-to-peer systems with progressive global grid access to enable a new generation of critical and pervasive applications. This workshop is the first of a series of ATI events organized to facilitate collaborations in the emerging interdisciplinary trustworthy internetworking community.



# Accelerating Trustworthy Internetworking (ATI)

## Organizational Structure and Approach

---

### ATI Program Committee

Chair: Clifford Neuman, USC-ISI  
Guy Almes, UCAID/Internet2  
Daniel Bochner, HP  
Bob Borchers, Maui HPC Center  
Steve Crocker, ICANN  
Tom DeFanti, University of Illinois-Chicago  
Barbara Fraser, CISCO  
Randy Katz, UC-Berkeley  
Peter Neumann, SRI  
Bill Scherlis, Carnegie Mellon University

### ATI Steering Committee

Chair: Stephen L. Squires, HP  
Vint Cerf, WorldCom  
Mel Ciment, Consultant  
Craig Cook, MITRE  
Steve Corbató, UCAID/Internet2  
Steve Crocker, ICANN  
Rich DeMillo, Georgia Institute of Technology  
Randy Katz, UC-Berkeley  
Mike Nelson, IBM  
Bob Parker, USC-ISI  
Bill Scherlis, Carnegie Mellon University  
Victoria Stavridou, SRI

### Approach

Workshop participants will report on progress and plans in their own areas of expertise with the intention of establishing collaborative activities with others to enable mutual acceleration while leveraging all relevant and related technologies, standards, concepts and applications.

Emphasis will be placed on a proactive testbed approach to enable rapid prototyping, evaluation, refinement, and progressive experimental deployment suitable for use in realistic environments.

The combination of critical and pervasive applications is meant to emphasize those applications and enabling technologies with a potential for rapid transition to actual practice that will affect our readiness for the challenges of Homeland Security.

Participants will discuss strategies for furthering the adoption of critical and pervasive research applications and enabling technologies to accelerate the creation and adoption of open standards to foster global transition to a trustworthy Internet.

Participants should expect to meet others who are in a position to establish partnerships focused on overcoming the challenges of critical and pervasive applications.

# SCHEDULE OF EVENTS

## *Tuesday, September 3*

7:00 **Evening Reception & Registration**  
Building 20, Foyer, HP Corporate Headquarters

## *Wednesday, September 4*

7:00 **Registration & Continental Breakfast**  
Building 20, Lobby, HP Corporate Headquarters

8:00 **Welcoming Remarks and Introductions**  
Dick Lampman, HP

8:15 **Keynote, Tom DeFanti**  
Professor, University of Illinois -Chicago  
"Trustworthy Applications with Experimental  
Infostructure Network Services"

9:15 **IPv6 Testbeds with Enhanced Security**  
Chair: Stephen L. Squires, HP  
Guy Almes, Internet2  
Steve Froelich, HP  
Allison Mankin, USC-ISI  
Paul Mockapetris, Nominum

11:00 **Global Grid Systems**  
Chair: Andrew A, Chien, UCSD  
Carl Kesselman, USC-ISI  
Clifford Neuman, USC-ISI  
Ben Peek, Peek & Associates

12:30 Lunch, Building 20  
**Speaker: Marc Rotenberg, EPIC**  
"Privacy Concerns in Internetworking"

2:00 **Generalized Peer-to-Peer Systems**  
Chair: Rich DeMillo, Georgia Tech  
Andrew A, Chien, UCSD  
Jeffrey Kay, Shinkuro  
Susie Wee, HP

3:15 **Securing Network and Information Flows**  
Chair: Joe Pato, HP  
T.J. Carter, Hurderos  
Jonathan Chao, Polytechnic University  
Eddie Kohler, Mazu Networks  
Jay Lepreau, University of Utah  
Doug Maughan, DARPA  
Glen Nakamoto, MITRE

4:45 **Critical and Pervasive Applications**  
Chair: Jeffrey Cooper, SAIC  
Suzanne Bakken, Columbia University  
Les Lenert, UCSD  
Suzanne Spaulding, American Bar Assn

6:00 **Adjourn**

7:00 **Reception & Dinner,**  
**Speaker: Vint Cerf, WorldCom**

All sessions are in a panel format, aside from  
Keynote, Luncheon and Dinner sessions

## *Thursday, September 5*

7:00 **Continental Breakfast**  
Building 20, Auditorium

8:15 **Keynote, Tony Tether**  
Director, DARPA  
"DARPA's Leadership in Information  
Technologies: Past, Present and Future"

9:15 **Supporting Critical and Pervasive  
Applications**  
Chair: Bill Scherlis, CMU  
Tushar Chandra, IBM Almaden Res Ctr  
Terry Davis, Boeing  
David Kehrlein, State of California  
David Lee, UCSD

11:00 **Wireless Systems for Critical and  
Pervasive Applications**  
Chair: Dan Bochner, HP  
Peter Digovich, DV Beam, LLC  
Lou Iorizzo, Army Intelligence  
Hans Kruse, Ohio University  
Gary Minden, U Kansas  
Hugh Lamaster, NASA  
Frank Whetten, Boeing

12:30 Lunch, Building 20  
**Speaker: Aris Pappas**  
"Daunting Challenges, Hard Decisions"

2:00 **Academic/Government/Industry  
Partnerships**  
Chair: Tom DeFanti, UIC  
Bob Borchers, MHPCC  
Peter Freeman, NSF  
Dick Lampman, HP  
Paul Kozemchak, DARPA  
Shankar Sastry, UCB

3:45 **Planning for Testbeds for Critical and  
Pervasive Applications**  
Chair: Clifford Neuman, USC-ISI  
Tom DeFanti, Jay Lepreau, Paul Mockapetris,  
Bill Scherlis, Stephen Squires

5:30 **Closing Remarks**

*Workshop*

# **ACCELERATING TRUSTWORTHY INTERNETWORKING (ATI)**

**TESTBEDS FOR CRITICAL AND PERVASIVE APPLICATIONS**

**September 3-5, 2002**

---

**DRESS CODE:** Optional/Business Casual

**ACCOMMODATIONS:**

Please contact Dinah's Garden Hotel in Palo Alto, CA and request special rates for ATI 2002 Workshop

4261 El Camino Real  
Palo Alto, California 94306  
Tel (650) 493-2844  
Fax (650) 856-4713  
<http://www.dinahshotel.com/>

**FOR FURTHER INFORMATION:**

This workshop is intended to be the first of a series of ATI events organized to facilitate collaborations in the emerging interdisciplinary trustworthy internetworking community. Please consult our web site for future events and developments:

- For updates and additional information see: [www.ati2002.org](http://www.ati2002.org)
- For specific suggestions or questions send email: [info@ati2002.org](mailto:info@ati2002.org)

Event Host:

