

**Workshop Co-Sponsored By:**  
National Nuclear Security Administration  
Cyber Sciences Laboratory



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# CSIIRW-8



## The Eighth Annual Cyber Security and Information Intelligence Research Workshop

January 8-10, 2013

The Cyber Sciences Laboratory consisting of nine Department of Energy National Laboratories will be co-sponsoring this year's conference.

We encourage all researchers and practitioners from among all communities involved with cybersecurity (industry, academia, government) to participate in the workshop and gain better understanding of the needs, stakes, and context of the ever evolving problem of securing the cyber landscape.

## Contacts

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**Workshop Homepage:**  
[www.csiir.ornl.gov/csiirw](http://www.csiir.ornl.gov/csiirw)





## Workshop Theme

### Federal Cyber Security R&D Program Thrusts



Today's cyberspace is a powerful, virtual environment enabled by our global digital infrastructure that provides a bright landscape for commerce, science, education, communication, and government. The future of America's prosperity hinges on rebalancing cyberspace to mitigate threats and maximize benefits, ensuring security and privacy in a constantly changing adversarial environment.

Recognizing this great need, we request original paper submissions in four general areas derived from the Federal Cybersecurity R&D program thrusts:

- ◆ **Designed-In-Security (DIS)** - Builds the capability to design, develop, and evolve high-assurance, software-intensive systems predictably and reliably while effectively managing risk, cost, schedule, quality, and complexity.
- ◆ **Tailored Trustworthy Spaces (TTS)** - Provides flexible, adaptive, distributed trust environments that can support functional and policy requirements arising from a wide spectrum of activities in the face of an evolving range of threats--recognizing the user's context and evolves as the context evolves.
- ◆ **Moving Target (MT)** - Enables us to create, analyze, evaluate, and deploy mechanisms and strategies that are diverse and that continually shift and change over time to increase complexity and cost for attackers, limit the exposure of vulnerabilities and opportunities for attack, and increase system resiliency.
- ◆ **Cyber Economic Incentives (CEI)** - Develops effective incentives to make cybersecurity ubiquitous, including incentives affecting individuals and organizations.

## Guidelines for Abstracts

Participants are invited to submit extended abstracts of no more than four Pages (single-spaced) by August 17, 2012. Read the full submission instructions at: [www.csiir.ornl.gov/csiirw/12/guidelines.html](http://www.csiir.ornl.gov/csiirw/12/guidelines.html)

### International Conference Proceedings Series published by ACM



Easy Chair Submission Site:

[www.easychair.org/conferences/?conf=csiirw8](http://www.easychair.org/conferences/?conf=csiirw8)

## Registration Fees

**General Attendee: \$180 or (\$230 after Sept 14)\***

**Student: \$100**

**ORNL Attendee: \$0**

**Keynote Speaker / Invited Speaker: \$0\***

**UT Faculty / Student Volunteer: \$0**

**\*Banquet Included, \$40 otherwise**

## Sponsorship

**Platinum: \$10000 - includes 3 free registrations**

**Gold: \$5000 - includes 2 free registrations**

**Silver: \$2500 - includes 1 free registration**

**Sponsorships include banquet for all registrants**



## Important Deadlines

**Aug 17:** Extended abstracts (up to 4 pages) submitted

**Sep 12:** Author notification

**Sep 21:** Final draft and copyright release due

**Dec 21:** Publication of CSIIRW Proceedings in ACM Digital Library (including extended abstracts and presentations)  
Early registration (\$180)

## General Areas:

Designed-In-Security (DIS)

Tailored Trustworthy Spaces (TTS)

Moving Target (MT)

Cyber Economic Incentives (CEI)

## Included Topics:

- ◆ Security assurance/interoperability for critical infrastructure
- ◆ Scalable/trusted control (cyber-physical) systems security
- ◆ Visual analytics for cyber security
- ◆ Next generation control systems vulnerability assessment
- ◆ Wireless security
- ◆ Testbeds and experimental environments
- ◆ Use cases and attack scenarios
- ◆ Insider and life-cycle threats
- ◆ Next-generation security technologies
- ◆ Secure information exchange gateway / watchdog switches
- ◆ Wide area monitoring, protection & control
- ◆ AMI, demand-response, & distribution grid management
- ◆ Trusted computing mechanisms and architectures
- ◆ Semantic technologies in cybersecurity
- ◆ Policy/standards driven architectures
- ◆ Balancing privacy, confidentiality, and security
- ◆ Cryptographic key management
- ◆ Security risk assessment and management
- ◆ Insider and life-cycle threats
- ◆ Automated vulnerability detection
- ◆ Access control management and authentication services
- ◆ Software verification and assurance
- ◆ Bio-inspired technologies for enhancing cybersecurity
- ◆ Hardware and software provenance