

Theme:

“Developing strategies to meet the cyber security and information intelligence challenges ahead”

The goal of the workshop is to challenge, establish and debate a far-reaching agenda that broadly and comprehensively outlines a strategy for cyber security and information intelligence that is founded on sound principles and technologies, including:

- better precision in understanding existing and emerging vulnerabilities and threats
- advances in insider threat detection, deterrence, mitigation, and elimination
- game-changing ventures, innovations, and conundrums (e.g., quantum computing, QKD, phishing, malware market, botnet, DOS)
- assuring security, survivability and dependability of our critical infrastructures
- assuring the availability of time-critical scalable, secure systems; information provenance; and security with privacy
- observable, measurable, certifiable security claims, rather than hypothesized causes
- methods that enable us to specify security requirements, formulate security claims, and certify security properties
- assurance against known and unknown (though perhaps premodeled) threats
- Mission fulfillment, whether or not security violations have taken place rather than chasing all violations indiscriminately.

Mission Statement

The CSIIR Group conducts research to develop and validate applications, methods and supporting tools for the creation of secure and dependable systems and information intelligence

that meet critical national needs. We have developed various prototypes and operational systems. Our intellectual property, including patents and copyrights, is available for licensing and commercial development. Our licensed technology has resulted in commercial products. Our Multipurpose Research Facility (MRF) provides an attractive test-bed or focused cyber security activities.

Chairs

Frederick T. Sheldon (abstract submission)
Oak Ridge National Laboratory
865.576.1339
SheldonFT@ornl.gov

Professor Ali Mili
College of Computing Science
New Jersey Institute of Technology
ali.mili@njit.edu

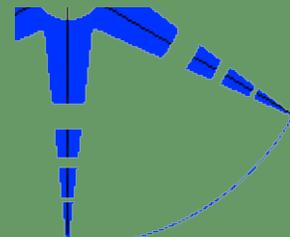
Professor Axel Krings
Department of Computer Science
University of Idaho
krings@cs.uidaho.edu

Sponsors

- Cyberspace Sciences and Information Intelligence Research (CSIIR) Group
- Computational Science and Engineering Division Oak Ridge National Laboratory
- Federal Business Council, Inc.
- Association of Computing Machinery

Contacts

Cyberspace Sciences and Information Intelligence
Research Group Computational Sciences and
Engineering Oak Ridge National Laboratory
P.O. Box 2008
One Bethel Valley Road
Building 5300, MS-6418
Oak Ridge, TN 37831
Phone: 865-576-5170
Fax: 865-576-5943



Call for Abstracts
CSIIRW-08:

The Fourth Annual Cyber Security and Information Intelligence Research Workshop

May 12-14, 2008

Oak Ridge National Laboratory,
Oak Ridge, TN at the Joint Institute for
Computational Sciences
(Building 5100)

Homepage:

<http://www.ioc.ornl.gov/csiirw>



Synopsis

As our dependence on the cyber infrastructure grows ever larger, more complex, and more distributed, the systems that compose it become more prone to failures and/or exploitation. Intelligence is information valued for its currency and relevance rather than its detail or accuracy (wiki). The term “information explosion” describes the pervasive abundance of public and private information and its effects. Gathering, analyzing, and making use of information constitutes a business/sociopolitical/military-intelligence gathering activity and ultimately poses significant advantages and liabilities to the survivability of society. The combination of increased vulnerability, increased stakes, and increased threats makes cyber security and information intelligence one of the most important emerging challenges in the evolution of modern cyberspace “mechanization.”

Planned Workshop Highlights

Keynote Speakers:

- Professor Dick Kemmerer, Security Group, UC Santa Barbara
- Professor Michael Franz, UC Irvine
- Professor Ravi Iyer, Director Coordinated Science Laboratory, UIUC
- Jeff Voas, Director of System Assurance, SAIC
- Mike McDuffie, VP and Patrick Arnold, CTO of Public Sector Services, Microsoft
- Keynote Panel *From Application to Network Security Engineering: Theory and Practice*
- Roundtable Dinner at the Doubletree, Oak Ridge
- ACM Published proceeding

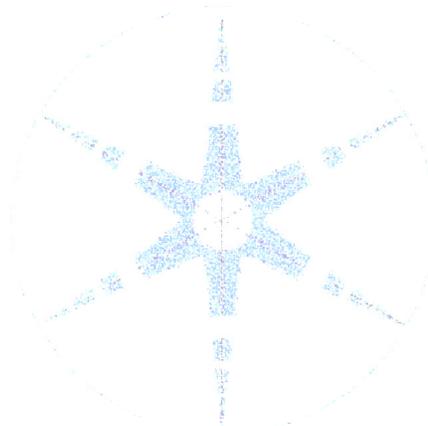
Guidelines for Abstracts

Interested parties are encouraged to submit extended abstracts (up to 3 pages) on or before March 3rd to Frederick Sheldon (SheldonFT@ornl.gov).

In keeping with the workshop format,

we are seeking extended abstracts (up to three pages). Presentations will be scheduled at the workshop to accommodate successive 30-minute talks plus 10 minutes to allow maximum interaction and discussion between participants to:

- address our goals and refine our strategy
- establish collaborative opportunities
- disseminate information about important developments
- initiatives and interested groups
- identify measures of success



Deadlines

March 17: Abstracts submitted for guidance and indication of appropriate content

March 24: Author notification

April 3: Visitation requests submitted by foreign national attendees (hard deadline visitation request)

Vendor and Participant Registration

The Federal Business Council will coordinate all vendor and participant registration.

Registration Fee

There will be a \$99 participant registration fee to partially cover the costs, including food and the banquet dinner

