

Louisiana Tech University's Centers of Excellence

The following Centers of Excellence at Louisiana Tech University provide the expertise and infrastructure for cyber education and research in North Louisiana. These Centers welcome opportunities for mutually beneficial collaborations with external entities in research, education, and professional development.

Center for Entrepreneurship and Information Technology (CEnIT) facilitates activities which foster a culture of innovation and entrepreneurship at Louisiana Tech and in the surrounding region. CEnIT promotes cyber engineering research and education through innovative programs that transition student and faculty research and inventions to commercial products. <http://cenit.latech.edu/>

Center for Information Assurance: The National Security Agency and the Department of Homeland Security has designated Louisiana Tech University as a National Center of Academic Excellence in Information Systems Security Education. The Center for Information Assurance led Louisiana Tech's efforts to attain this designation. <http://www.business.latech.edu/centers/IA/>

Center for Secure Cyberspace (CSC) is dedicated to education and research in integrated smart cyber centric sensor surveillance systems. The CSC incorporates cyber engineering into sensor surveillance system education and research through dynamic network formulation, secure information dissemination, data fusion and prediction of disaster precursors, visualization, and validation. <http://csc.latech.edu/>

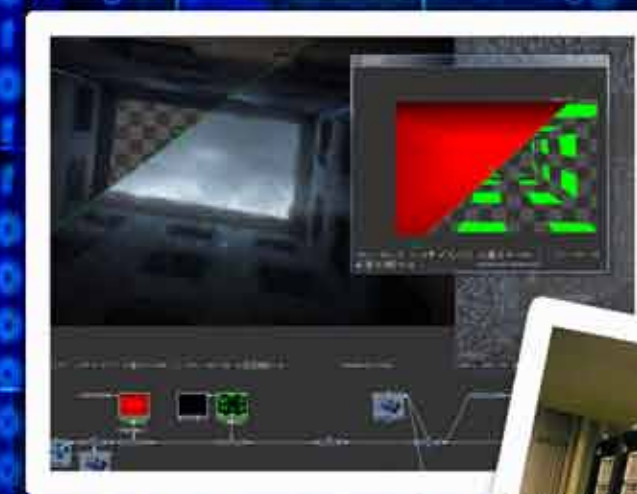
Institute for Micromanufacturing (IfM) is carrying out leading-edge research and development efforts resulting in micro and nanosystems for biomedical, biological, environmental, chemical, information technology, and other applications. The Information Technology thrust area of the Institute is engaged in developing innovative micro/nanotechnology-based systems for information technology applications, including intelligent wireless sensor and RFID systems. <http://www.latech.edu/ifm/>

Integrated STEM Education and Research Center (ISERC) is a leader in reinventing engineering and science education to meet the regional, national, and global challenges of the 21st century. ISERC is aggressively engaged in STEM education reform, including engineering and science curricula redesign, high school teacher professional development, and the integration of entrepreneurship and engineering. <http://iserc.latech.edu>

Enterprise Campus: Louisiana Tech's \$25M research park, named "Enterprise Campus," recently completed its first building, Tech Pointe, which is now being occupied by researchers and information technology companies. The 42,000-square-foot, three-story building includes a conference room, meeting rooms, lounge, break room, an exercise facility and several other amenities for tenant companies, in addition to the Cyberspace Research Lab, funded by the Air Force Office of Scientific Research, which includes advanced computing and networking facilities. http://enterprise.latech.edu/overview/tech_pointe



2011 CYBER ENGINEERING CONFERENCE



cyber innovation center
Collaboration • Research • Technology

2011

CYBER ENGINEERING CONFERENCE

Hosted by:
Louisiana Tech University and Cyber Innovation Center
Shreveport Convention Center
Shreveport, Louisiana
November 7, 2011

Conference Committee

- Louisiana Tech: Les Guice, Stan Napper, Ramu Ramachandran, Galen Turner
- Cyber Innovation Center: GB Cazes, Craig Spohn

Conference Agenda

7:30 - 8:45 On-Site Registration, Continental Breakfast

8:45 **Welcome and Purpose** - **Dr. Stan Napper**, Dean of College of Engineering and Science

9:00 **Session 1** (20 minutes each)

- **Kamal Jabbour**, Air Force Senior Scientist for Information Assurance, Air Force Research Laboratories, *Network Security - Neither Sufficient nor Necessary for Mission Assurance*
- **West Anderson**, The Boeing Company, *Boeing Defense in the Aerospace Arena*
- **Robin "Montana" Williams**, Department of Homeland Security, *Cyber Education and the Cyber Security Framework*
- **Alan White**, Dell SecureWorks, Cybersecurity at Dell

10:20 - 10:40 **Break**

10:40 **Session 2** (20 minutes each)

- **John Knies**, Chief Information Security Officer, CenturyLink, *CenturyLink - Telecom evolution and challenges*
- **Craig Spohn**, Director of Cyber Innovation Center, *Cyber Education and Research Through the Cyber Innovation Center*
- **Robert Elder**, Senior Advisor, Cyber Innovation Center, *Alternative Approaches to Cyber Assurance and Defense*
- **Joel Tohline**, Professor of Physics and Director, Center for Computational Technology at LSU, *Louisiana Optical Network Initiative: Past, Present, and Future*

12:00 - 1:00 **Lunch**

Sessions 3 and 4 feature speakers from Louisiana Tech University

1:00 **Session 3** (15 minute talks)

- **Vir Phoha**, Professor of Computer Science, *Identification Based on Behavioral Biometrics in Cyberspace*
- **Travis Atkison**, Assistant Professor of Computer Science, *Control System Security*
- **Scott Shepard**, Associate Professor of Electrical Engineering, *Quantum Key Distribution and other Advances in Telecommunications*
- **Sumeet Dua**, Associate Professor of Computer Science, *Pattern Mining-based Event Detection and Tracking*
- **Randy Null**, Professor of Biomedical Engineering and Director, Institute for Micromanufacturing, *Advanced Technologies at the Institute for Micromanufacturing*
- **Rastko Selmic**, Associate Professor of Electrical Engineering, *Mobile Sensor Networks and Applications in EM Source Localization*

2:30-2:50 **Break**

2:50 **Session 4** (15 minute talks)

- **Tom Roberts**, Professor of Computer Information Systems, *Center for Information Assurance*
- **Jean Gourd**, Assistant Professor of Computer Science, *A Competitive Approach to Raising Future Cyber Citizens*
- **Jeremy Mhire**, Assistant Professor of Political Science, *Cyber-Space, Cyber-Technology and Cyber-Citizenship: Old Issues Meet New Technology in the 21st Century*
- **Galen Turner**, Associate Professor of Mathematics and Associate Dean for Graduate Studies, *Cyber Discovery: Toward a National Model for Cyber Education*
- **Thomas Bishop**, Associate Professor of Chemistry, *Cyberinfrastructure Forecast for Computational Biology: Clear To day, Cloudy Tomorrow, with a Chance of GPU Reign*

4:05 **Closing Remarks: Stan Napper**, Dean of College of Engineering and Science

4:15 **Adjourn**

5:00 **Public presentation: Tim Elmore**

6:30 **CIC Reception for 2011 Air Force Global Strike Conference**

CYBER ENGINEERING CONFERENCE