

Symposium Speakers



Tsuyoshi Fujita, Ph.D.

Professor, Environmental Technology Assessment System Section National Institute for Environmental Studies

Topic:
Renewable Energy



Chris Barkey

Chief Operating Officer Engineering & Technology Rolls-Royce plc

Topic:
Aviation, Engine development (impact of volcanic eruptions)



Adm. Conrad C. Lautenbacher

Ph.D., Vice Admiral (USN Ret.)

Topic:
GEOSS Results/Earth Oriented



Kedrick Brown

Vice President, Global Telecommunications Center of Excellence IBM

Topic:
Telecom/Social Network, IBM

Technical Tours

National Renewable Energy Laboratory (NREL)

The National Renewable Energy Laboratory (NREL) located in Golden, Colorado is one of the leading research laboratories operated by the United States Department of Energy. NREL develops renewable energy and energy efficient technologies and practices, advances related science and engineering, and transfers knowledge and innovations to address US energy and environmental goals.

The NREL tour will offer insight into the latest research and thinking on green, clean, and renewable energy production from one of the world's leading energy research organizations. (www.nrel.gov)



Laboratory for Atmospheric and Space Physics (LASP)



The Laboratory for Atmospheric and Space Physics (LASP) located in Boulder, Colorado is a research facility operated by the University of Colorado, and one of America's leading university facilities for space science research, spacecraft instrument development, and space mission operations.

The LASP tour will provide a glimpse into the fields of space science, aerospace engineering, and space mission operations. (lasp.colorado.edu)

Sponsors to-date

Platinum



Bronze



Exhibitors to-date

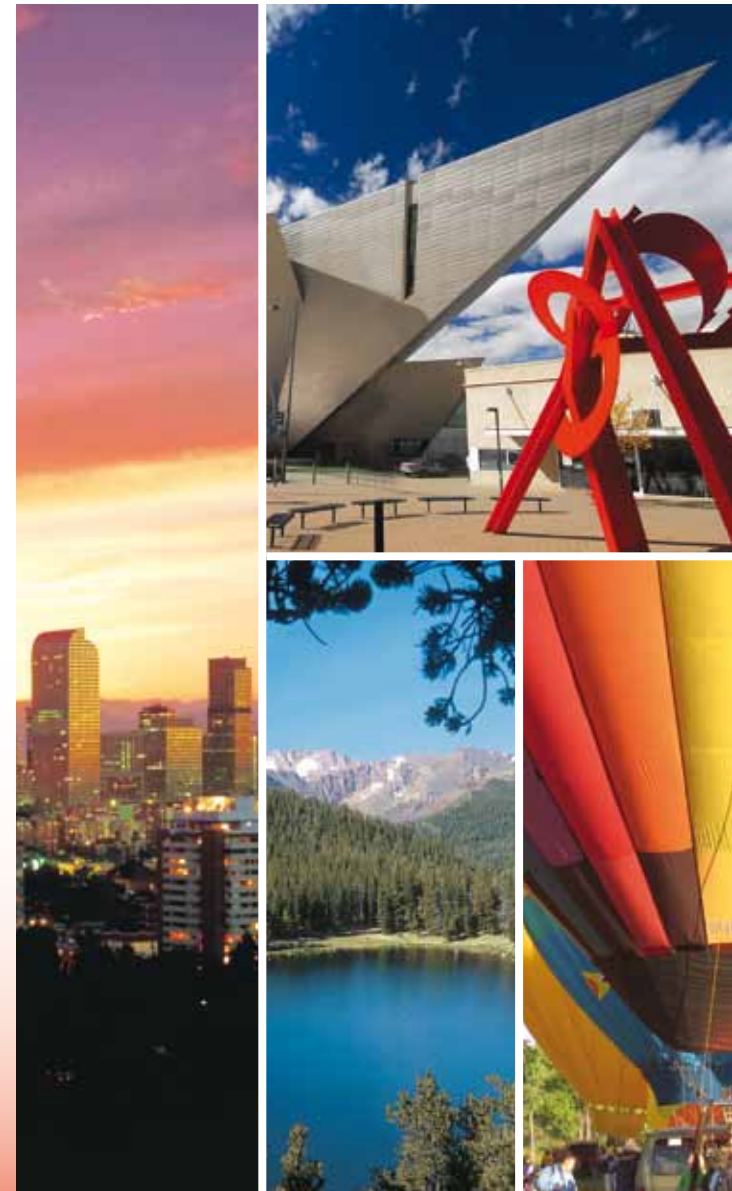
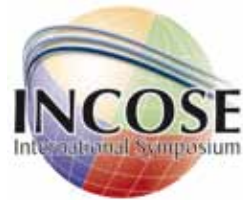
- 3SL
- BAE Systems
- Georgia Tech Research Institute
- Institute for Systems Research, University of Maryland
- Johns Hopkins University Engineering for Professionals
- MIT – Engineering Systems Division & System Design & Management Program
- Siemens PLM Software
- Stevens Institute of Technology – School of Systems & Enterprises
- University of Southern California Viterbi School of Engineering
- Vitech Corporation

21st Annual INCOSE

International Symposium

20 - 23 June, 2011

Denver



For more information:
www.incose.org/symp2011

Welcome from the INCOSE President



2011 takes INCOSE to another great city as we head for Denver, Colorado. This will be the highest altitude international INCOSE event to date, and is the first time that INCOSE has held such an event in the Centennial State.

Home to both aerospace and defense and to industries newer to systems engineering such as ground transportation and renewable energy, the location provides the perfect venue for INCOSE to 'come of age' as it turns 21. As one of only 3 US states without natural borders, Colorado truly represents our profession as we continue to grow, unconstrained by either traditional domains or the limited view of systems engineering as 'process-centric'. We look forward to bringing you a diverse program which reflects both our traditional domains and opportunities to make a difference in newer application areas.

Against the stunning backdrop of the 30 highest summits of the US Rocky Mountains, please join us in Denver as we continue to reach new heights in systems engineering!

Samantha Brown

About INCOSE

The International Council on Systems Engineering (INCOSE) is a not-for-profit membership organization founded to develop and disseminate the interdisciplinary principles and practices that enable the realization of successful systems.

INCOSE Mission and Vision

INCOSE's mission commits its members to **share, promote and advance the best of systems engineering from across the globe for the benefit of humanity and the planet.**

The INCOSE Vision directs us to be **the world's authority on Systems Engineering.**

INCOSE Goals

- To provide a focal point for dissemination of systems engineering knowledge.
- To promote international collaboration in systems engineering practice, education, and research.
- To assure the establishment of competitive, scaleable professional standards in the practice of systems engineering.
- To improve the professional status of all persons engaged in the practice of systems engineering.
- To encourage governmental and industrial support for research and educational programs that will improve the systems engineering process and its practice.

INCOSE's organization, operations and initiatives all exist to serve this overarching purpose.

Why Should I Attend?

The International symposium of INCOSE is in its 21st year leading the way into the future with the largest systems engineering event in 2011.

Continue your professional development by being on the cutting edge of systems engineering technology. There are 35 paper sessions with 96 papers (including invited papers from SoS experts & IEEE colleagues), 6 panels debating various unresolved issues, 16 practical tutorials and 4 leading keynote speakers and so much more. Join us and experience the following:

- Interact one-on-one with leading practitioners, researchers and educators
- Attend paper presentations
- Participate in Panels
- Competence building Tutorials
- Participate in Working Groups
- Stay current on "Best Practices"
- Learn about Certification
- Network with colleagues and make new connections
- Receive Proceedings and conference bag

Register Today!

Technical Program

Paper authors, panelists and tutorial presenters will address ways in which Systems Engineering principles and perspectives are performed today and how Systems Engineering may influence our future.

Paper presentation

96 papers presented in concurrent tracks between the opening and closing plenary sessions include:

- The latest Systems Engineering best practices from diverse sectors including Government, Defense, Security, Transportation, Information, Communications, Health, Energy and Consumer Products.
- State-of-the-Art Systems Engineering methodologies including those addressing System of Systems, Model Based Systems Engineering, System Architecture, Requirements, Risk, Systems Thinking, Decision Making and Project Planning.
- Systems Engineers from IEEE are invited to present a full day of papers on Wednesday.
- Special sessions on Tuesday & Wednesday for System of Systems topics.

Each presentation includes about 10 minutes for interaction between the author and audience. In addition, poster papers allow each author to discuss aspects of her/his paper face-to-face.

Technical Program

Panels & Roundtables

6 panels provide a venue where the global leaders in Systems Engineering will debate, discuss, and interact with the audience including:

- A Specially Invited Panel on Energy Systems
- A Transportation Industry Roundtable
- A Plenary Roundtable on System of Systems

Tutorials

For participants arriving early, a selection of tutorials is scheduled for the Saturday & Sunday before the Symposium including preparation for the SE certification exam. Over 12 tutorial topics are also available during the symposium that will appeal to SE at every level of experience.

Academic Forum

The Academic Forum is an excellent opportunity to engage in a dialogue on the issues of primary importance to INCOSE and the ongoing relevance of systems engineering as a discipline and a practice. On Tuesday afternoon there will be two consecutive sessions for the Academic Forum including a focus on undergraduate programs and integrated systems thinking. On Wednesday afternoon there will be two more consecutive sessions for the Academic Forum including a focus on the Graduate Reference Curriculum to Advance Systems Engineering and on the Accreditation of Systems Engineering programs.

Youth Engineering Education Outreach

These very important sessions focus on how to develop future Systems Engineers. On Wednesday morning the workshop theme is the Inquiry Based Education methodology; the afternoon continues with a session related to the US Department of Education Standardization and a panel discussion from various universities with INCOSE Student Division programs. Also, the INCOSE special award winner from the International Science and Engineering Fair will be introduced and present their project.

More information on
www.incose.org/symp2011