

2016

Critical Infrastructure Symposium

*Resilience:
An Infrastructure, Social
and Economic Imperative*

April 3-5, 2016
The Marriott
Charleston, S.C.

*Hosted by The Infrastructure
Security Partnership Council of
the Society of American Military
Engineers and The Citadel*



www.same.org/tisp

CALL FOR PAPERS

Help Shape the Future of Resilience

Leaders from industry, government and academia are invited to participate in the 2016 Critical Infrastructure Symposium (CIS) by submitting an abstract of a presentation and/or paper.

Now in its seventh year, CIS continues to showcase innovative research and best practices, and explore new challenges for building a more resilient and sustainable infrastructure. The Symposium is a collaborative learning community of students and professionals engaged in developing the next generation of critical infrastructure security and resilience leaders, technologies, strategies and solutions.

The 2016 CIS is built around the theme, "Resilience: An Infrastructure, Social and Economic Imperative." The technical program will include 12 sessions, each with up to four presenters from inter-related disciplines across the resilience community.

Papers and presentations are solicited for these topics:

- Social and Economic Resilience
- Design Philosophies for 22nd Century Design
- Critical Infrastructure Security and Resilience Education
- Impacts of 3D Printing on Infrastructure
- Evolution of the 21st Century Terrorist Threat
- Concurrent Hazards Analysis
- Electrical Power Resilience
- Transportation Resilience

Authors also are encouraged to submit papers and presentations on their unique infrastructure research and projects.

CIS Publications

To improve the accessibility, usefulness, speed and professional quality of our publications, we will begin publishing CIS submissions in three formats:

- **Presentation + full paper (5,000+ words).** These papers will be peer-reviewed after the CIS and, if of sufficient quality, be published as CIS Proceedings and archived on the SAME website.
- **Presentation + 1,500-word supporting essay.** Based on recommendations from the moderators and the CIS committee, these short-form articles will be submitted to The CIP Report (published by George Mason University) for publication and presentations will be archived on the SAME website.
- **Presentation with annotated speaker notes.** Detailed notes explaining the slides will be placed in the notes section of the slide to allow the slides to be cited, used and explained by others. These annotated slides will be archived on the SAME website.

Key Dates

"Early Bird" Registration Opens	Dec. 11, 2015
Title, abstracts, and author information due:	Dec. 18, 2015
Regular Registration Opens:	Jan. 15, 2016
Notification of accepted presenters:	Jan. 15, 2016
Final papers, bios and presentations due:	Mar. 18, 2016

Submission Instructions

All individuals must submit an abstract of his/her presentation. All presenters will be selected based on the abstract. A final paper may be submitted to be considered for publication in one of the formats listed in the "CIS Publications" section. Each abstract must contain the following information:

- Paper title;
- Author(s) name and affiliation;
- Faculty advisor and affiliation (for students);
- Keyword description of subject and hazard;
- Type of submission—full paper, supporting essay, or annotated speaker notes;
- 400-word abstract; and
- 100-word biography of the primary author.

Abstracts that contain the following information will have a higher chance of being accepted: contain a clear and supported thesis; provide accurate information and show a succinct description of the research objective and how it relates to the thesis; and feature a relevant subject that provokes dialogue and appeals to symposium attendees.

The file must be set up as "AUTHOR LAST NAME—PAPER TITLE.pdf" and e-mailed to Jacqueline Barrett at jbarrett@same.org by **DECEMBER 18, 2015**. All abstracts will be reviewed and notifications sent to submitters whether their paper or presentation abstracts are accepted. Presentations will be in PowerPoint.

Abstract Evaluations

Abstracts are evaluated using a peer review process. Each abstract is evaluated by a subject matter expert against the following criteria: quality of abstract, accuracy, overall quality of writing, and relevance of the subject.

The peer review process takes three weeks to complete. Abstracts submitted prior to December 1, 2015 will be considered for early acceptance. Notifications of acceptance for the 2016 CIS will be sent out by JANUARY 15, 2016. If you would like to participate in the review process, contact Jacqueline Barrett at jbarrett@same.org.



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Attend the Symposium

The Critical Infrastructure Symposium (CIS) brings together leading practitioners from academia and the public and private sectors to advance the knowledge base of infrastructure resilience and share best practices and lessons learned.

CIS presents a solutions-driven information-sharing arena and an excellent networking opportunity for professionals from across the resilience community to engage with their colleagues in related sectors.

Sectors and professional disciplines represented at CIS include:

- Engineers, Architects, Constructors and Landscape Designers
- Public Administrators and Managers
- Emergency Managers and Operators
- Public Health, Safety, and Healthcare Professionals
- Academic and Research Professionals
- Utility Providers (Energy, Communications, Water and Wastewater)
- Policy, Legal and Law Enforcement
- Urban Planners and County Commissioners
- Transportation Managers and Planners
- Facility, Data and IT Managers
- Supply Chain Logistic Managers and Operators

For more information on attending the 2016 CIS, visit www.same.org/tisp.

Agenda-at-a-Glance (Proposed Schedule)

The Critical Infrastructure Symposium (CIS) is the premier event for advancing regional and infrastructure security and disaster resilience design within the engineering and architectural communities as well as its research and study within academia.

SUNDAY, APRIL 3RD

5:30 p.m.-7:00 p.m.

Opening Reception

MONDAY, APRIL 4TH

8:00 a.m.-11:30 a.m.

Symposium Workshop

11:30 a.m.-1:00 p.m.

Opening Lunch

1:30 p.m.-3:00 p.m.

Technical Sessions: Period One

3:30 p.m.-5:00 p.m.

Technical Sessions: Period Two

5:00 p.m.-7:00 p.m.

Plenary Poster Discussion and Networking Reception

TUESDAY, APRIL 5TH

7:30 a.m.-8:30 a.m.

Breakfast Presentation

8:45 a.m.-10:15 a.m.

Technical Sessions: Period Three

10:30 a.m.-12:00 p.m.

Closing Plenary

12:30 p.m.-2:00 p.m.

Lunch with Keynote Speaker

12:30 p.m.-3:30 p.m.

Training Course or Technical Tour

Review Committee

The technical program and paper reviews are administered by TISP's Knowledge, Skills and Education Working Group. To learn more about how you can participate, contact Jacqueline Barrett, at jbarrett@same.org.

KNOWLEDGE, SKILLS AND EDUCATION WORKING GROUP

- **Chair:** Lt. Col. Steve Hart, P.E., USA (Ret.), Virginia Military Institute and Hart Engineering
- **Co-Chair:** Col. Ronald Welch, P.E., Ph.D., F.SAME, USA (Ret.), The Citadel
- Mark D. Troutman and Christie Jones, George Mason University
- Christy Magee and Matthew Kauffman, Office of Infrastructure Protection, Department of Homeland Security
- Denise Krepp, Pennsylvania State University
- Stephen A. Cauffman, National Institute of Standards and Technology
- Frederic Petit, Ph.D., Michael Collins, and Paul Lewis, Argonne National Laboratory
- Stanley P. Rader, Ph.D., P.E., U.S. Air Force Academy
- Col. Joe Manous, Ph.D., P.E., D.WRE, USA (Ret.), U.S. Army Corps of Engineers
- Barbara Yagerman Cox, Industry Consultant
- Ron Fisher, Ph.D., Idaho National Laboratory
- George H. Baker, Ph.D., James Madison University
- Ted Krauthammer, University of Florida
- Scott Brotemarkle, National Academies
- Marc Radell, Esq., CFM, CHMM, AECOM
- Col. Richard Kochanek, F.SAME, USAF (Ret.), SAME San Antonio Post
- Yuko J. Nakanishi, Ph.D., Nakanishi Research & Consulting LLC
- Jon Wheeler, P.E., Booz Allen Hamilton
- John Enyeart, P.E., Joint Base San Antonio
- Keith Lashway, International Masonry Institute
- Lt. Col. Kevin Golinghorst, USA, 554th Engineer Battalion
- Rebecca Wingfield, LEED AP, U.S. Army Engineer School
- Capt. Len Dillinger, P.E., USN (Ret.), Michael Baker International
- Lt. Col. Gary Gordon, P.E., USA (Ret.), University of Massachusetts-Lowell
- Michelle Peterson, Amec Foster Wheeler
- Scott Higgins, SAME Washington DC Post
- Marc Johansen, Air Force Installation & Mission Support Center Detachment 8