

CALL FOR PAPERS



INTERNATIONAL CONFERENCE ON SUSTAINABLE INFRASTRUCTURE 2014

Long Beach, California | November 6–8, 2014

Civil Engineers — Creating Infrastructure for a Sustainable World

TOP REASONS TO ATTEND

- Learn from and network with industry leaders and sustainable infrastructure practitioners from around the world
- Share latest advances in sustainable infrastructure planning, design, and construction
- Learn new tools and hear the latest research to support sustainable infrastructure
- Learn how to plan infrastructure for climate change and resiliency
- Learn from successful case studies the best examples of sustainable infrastructure
- Understand industry trends and public policy that will lead sustainable development
- Learn about innovative approaches to infrastructure project financing
- Be a contributor to the first comprehensive international conference on infrastructure sustainability and resiliency



www.asce.org/ICSI2014



Conference Objectives

Infrastructure is an essential component of national competitiveness and social well-being. Designing and delivering infrastructure systems that truly contribute to sustainability throughout their service life is the theme of this conference.

The International Conference on Sustainable Infrastructure (ICSI) 2014 will focus on sustainability in the built environment, presenting relevant engineering research, demonstrations and applications that contribute to competitiveness and well-being. Presentations and panel discussions will cover sustainable infrastructure planning, financing, design, construction and operation: how practitioners are improving sustainable performance to meet the critical challenges of a changing operating environment.

Who Should Attend

The conference is organized to facilitate exchange of information and knowledge among civil infrastructure professionals, practitioners, public infrastructure owners, policy makers, government engineers and planners, operations managers and leading applied academics.

Conference Program

The conference is planned for November 6–8, 2014. The technical program will include plenary and parallel sessions with keynote speakers and contributed papers. Workshops on specialized topics may be organized as part of the conference. The social program will consist of a welcome reception, a farewell dinner, and technical tours.

Invitation and Call for Papers

Prospective speakers are invited to submit abstracts. The conference will produce proceedings which will include conference papers. Speakers who wish to submit a paper for inclusion in the conference proceedings should indicate their intention to do so. High quality papers will be considered for journal publication. Abstract submissions should be limited to two pages. Authors should indicate whether they wish to present in a traditional session, a poster session, or are willing to be considered for either.

Online submission is easy and is required to be considered for acceptance into the program. For more information on the process and requirements for submission, please follow the online instructions at **www.asce.org/ICSI2014**. Final papers will be peer reviewed and published in the Conference Proceedings.

Papers accepted for final submission must be 5 to 12 pages.

Sponsorship

As the premier event for all sustainability professionals, this event is expected to attract a large number of attendees from practice, academia, government, industry, and allied fields. Highlight your company's commitment and unique contribution to sustainable infrastructure before the industry's premier leaders, planners and practitioners by becoming a conference sponsor.

Conference Topics

Conference papers and presentations will cover all types of horizontal infrastructure: roads, bridges, dams, levees, buildings and facilities, rail, waterways, transit, water and wastewater, aviation, ports, solid and hazardous waste, telecommunications, and energy. The topic areas to be addressed at the conference are:

Situation: Current and Projected

- Analysis of infrastructure conditions
- Global infrastructure assessments
- Infrastructure problems for developing nations
- Infrastructure for a sustainable future

Financing Infrastructure Projects

- Financing approaches, constraints
- Financing large projects: domestic and global
- Innovative financing mechanisms
- Making the financial case for sustainable infrastructure
- Case examples: what works, doesn't work

Cross-cutting Issues

- Infrastructure and the water/energy nexus
- Sustainability in engineering education
- Sustainability accreditation and certification
- Infrastructure asset management
- Applying systems thinking to infrastructure planning

Materials, Tools, and Methodologies

- Sustainable construction materials
- Life-cycle assessments
- Risk assessments
- Using BIM on sustainable infrastructure projects

Innovation

- Sustainable project management
- High performance project teams
- Tapping into university research
- Case examples in infrastructure innovation

Challenges and Barriers

- Regulatory barriers, workarounds
- Infrastructure resource and configuration traps
- Community concerns and resistance
- Permitting

Sustainability and Competitiveness

- Relation of infrastructure conditions and sustainability to local, regional and national competitiveness: water, wastewater, transportation, power, etc.
- Infrastructure asset management

Risk, Resiliency, and Adaptation to Climate Change

- Strategies for mitigation and adaptation
- Design for recovery from extreme events
- Contribution of sustainable infrastructure to business continuity/recovery

Sustainable Cities

- Designing sustainable cities and urban systems
- Mega-cities and meta-cities
- Critical issues urban planning
- Case examples of sustainable urban systems

Sustainability, Society and Culture

- Sustainability, quality of life and culture
- Social LCAs
- Using design charrettes on infrastructure projects
- The business case for social responsibility

Envision™ Rating System

- Using the Envision™ rating system
- Envision™ as a decision framework
- Sustainable ROI
- Envision™ for construction, operations

Research Needs, Advances

- Infrastructure design for the other 5 billion people
- Improving infrastructure sustainable performance
- Designing for continuous change
- Advance research in sustainable infrastructure



"As a federal leader, I see every day how owners, operators and practitioners benefit from sustainable engineering and infrastructure and the economic and security benefits they provide to our Nation. ASCE has long been a national leader in sustainable engineering practices, and this forum



will build on that leadership position. This International Conference on Sustainable Infrastructure offers an outstanding

opportunity to learn about the great work in this field and to share first-hand experiences with our colleagues. I am excited about this conference and look forward to learning about how others are addressing the challenges of sustainable development."

*Jim Balocki, P.E., M.ASCE
Chief, International and Interagency
Services, HQ, US Army Corps
of Engineers*

IMPORTANT DATES

Abstracts Due: November 8, 2013

Abstract acceptance: December 13, 2013

Draft Papers Due: March 7, 2014

Paper Acceptance: May 23, 2014

Final Manuscript Deadline: July 11, 2014



CONFERENCE STEERING COMMITTEE

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"As the Director of Program Management at the Port of Long Beach, a premier seaport with billions of dollars of infrastructure critical to the economic and physical well-being of the United States, it is vitally important that the facilities we develop be efficient, resilient and sustainable. As critical as the Port is to the continued welfare of the country, we recognize our responsibility to develop, operate and maintain international commerce within our local community and the environment in a sensible, cohesive



and integrated way. Committing to sustainable infrastructure development is a key strategy for maintaining our

international competitiveness as well as our environmental and community stewardship. The International Conference on Sustainable Infrastructure will provide a world-stage for us to learn from and collaborate with colleagues and industry leaders who are dedicated to the principles of sustainable infrastructure. I'm looking forward to this conference to enhance my understanding of and my commitment to the principles of sustainable development."

*Doug Sereno, P.E., ENV SP, M.ASCE
Director of Program Management,
Port of Long Beach*



Conference Venue

Long Beach is where the action begins and the fun never ends. From the regal Queen Mary and spectacular Aquarium of the Pacific to stirring Broadway shows, live music venues and hundreds of exclusive dining destinations — all centrally located. Airport-close, a brief and pleasant cruise away from Catalina Island and a short distance from Disneyland, Universal Studios, Hollywood, and everything Southern California has to offer, Long Beach is the perfect destination!

ASCE STAFF CONTACT

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