

# INTERNATIONAL CONFERENCE ON SUSTAINABLE INFRASTRUCTURE – ICSI 2016

A Sustainable Future for China, the Asian Region, and the World

Shenzhen, People's Republic of China | October 17–19, 2016

*Creating Infrastructure for a Sustainable World*

We are pleased to invite you to participate in the International Conference on Sustainable Infrastructure 2016 (ICSI 2016) on October 17–19. This event is taking place at a pivotal moment. By 2050, around 7 billion people globally will live in cities—and 60% of those urban regions, most of them in the developing regions of the world, have not yet been built. Accommodating this immense demand for urban infrastructure is an exceptionally daunting challenge for the engineers and planners of the 21<sup>st</sup> century, and with increasing concerns about climate change, resource depletion, and population growth, sustainable urban infrastructure development is imperative.

Urban infrastructure growth in China, in particular, is massive and unprecedented. The country's urban population is expected to increase by 350 million by 2025—more than the total current US population. Local and national leaders must meet the vast demand for infrastructure in a way that ensures environmental protection and sustainability. Given the global implications of China's infrastructure development, ICSI 2016 will be held in Shenzhen, PR China. The conference is being jointly sponsored by the Chinese Academy of Engineering (CAE) and the US National Academy of Engineering (NAE).

A major focus will be on developing roadmaps to address the [NAE Grand Challenges for Engineering](#), 14 goals outlined by an international blue-ribbon panel tasked with identifying what needs to be done to help people and the planet thrive. They fall into four themes that are essential for humanity to flourish—sustainability, health, security, and joy of living—and include *Restore and Improve Urban Infrastructure*, *Provide Access to Clean Water*, and *Develop Carbon Sequestration Methods*.

The first International Conference on Sustainable Infrastructure was held in November 2014 in Long Beach, California, with over 300 attendees. ICSI 2014 began with a reality check, recognizing both the importance of infrastructure to the US and world economy and the risks posed by current unsustainable engineering practices. Leaders from the World Bank, China, US Department of Homeland Security, and state and local governments offered their perspectives on sustainability in the built environment. The conference proceedings, [ICSI 2014: Creating Infrastructure for a Sustainable World](#), includes 104 papers presented in the plenary and 24 technical sessions as well as adaptations of the poster sessions. Within six months of publication they had been read or downloaded by thousands of users.

Building on the success of the first conference, ICSI 2016 will focus on sustainability in the built environment, presenting relevant engineering research, demonstrations, and applications that contribute to both economic prosperity competitiveness and societal well-being. Presentations and panel discussions will address sustainable infrastructure planning, financing, design, construction, and operation to explore how practitioners are improving sustainable performance to meet the critical challenges of a changing operating environment. The conference will be organized to facilitate the exchange of information and knowledge among speakers and attendees, who will include civil infrastructure professionals, practitioners, public infrastructure owners, policymakers, government engineers and planners, operations managers, and leading academic researchers.

The CAE Division of Environmental Engineering is the lead organizer of the conference together with the American Society of Civil Engineers (ASCE), Chinese Research Academy of Environmental Sciences (CRAES), and Human Settlements and Environment Commission of Shenzhen Municipality (HSECSM). The Chinese Academy of Urban Planning & Design (CAUPD) and Tsinghua University and Research Center of Eco-Environmental Sciences (RCEES) are co-organizers. The CAE is the lead sponsor of the conference in collaboration with the NAE.

We believe that ICSI 2016 can be play a critical role in the development of a blueprint for more sustainable cities in China and around the world. Please join us for this exceptional opportunity to contribute to the future of the world's urban development in the coming decades.

Sincerely,

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