

INTERNATIONAL CONFERENCE ON SUSTAINABLE INFRASTRUCTURE BROOKLYN, NEW YORK | 26-28 OCTOBER 2017

Sustainable Cities for an Uncertain World



**Sustainable
Infrastructure**

ASCE
AMERICAN SOCIETY OF CIVIL ENGINEERS

**NYC
DDC**

Department of
Design and
Construction

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Conference Vision

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The International Conference on Sustainable Cities for an Uncertain World addresses what we know about an uncertain future, and probes the edges of what we do not know. Uncertainty prods engineers to go deeper, seek higher, and initiate research collaboration to assure that the best efforts can be brought together to combat the impact of climate change and energy unpredictability.

Grand Challenges



The conference will focus on developing roadmaps to address the UN Sustainability Goals of developing sustainable cities and building

resilient infrastructure as well as the NAE Grand Challenge to “restore and improve urban infrastructure,” all while supporting the ASCE Grand Challenge of how “we can work together towards the shared goal of reducing life cycle costs by 50% by 2025 and foster the optimization of infrastructure for society.”

Guiding Principles

In New York City, the Department of Design and Construction has taken the lead in putting together a set of ideas and non-prescriptive points to consider for public works projects large and small. They are organized around the “lenses” of growth, equity, sustainability, Resiliency and healthy living, and provide guidance for the ongoing efforts of DDC’s design consultants.

Design and
Construction
Excellence
2.0 Guiding
Principles

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Reasons to Attend the Conference

Chair's Message

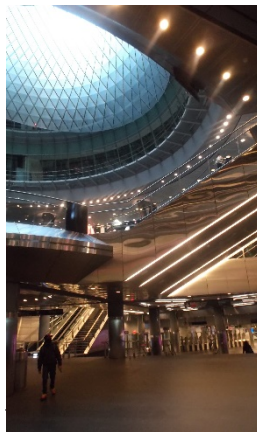
Dear Colleagues,
I look forward to seeing you next year in New York. The workshops, keynote lectures, panel discussions and tours that are being planned for the International Conference on Sustainable Infrastructure 2017 will broaden our understanding of research underway and best practices in the field. Engineers along with others shaping the built environment will gather here to relate their efforts to the Grand Challenges of the UN, the NAE and the ASCE. We hope that you will join us here.

Yours truly,
Feniosky Peña-Mora, ScD, NAC
Commissioner
NYC DDC



Tours

Engineers who were involved will lead tours of some of the most exciting new civil engineering projects in the world. Come see the High Line, the World Third Water Tunnel, the new Tappan Zee Bridge and the lifting of the Bayonne Bridge, among other possibilities in the works.



Cities as Case Studies

Workshop/Case Studies will highlight work underway or recently completed in a wide



variety of global cities, including:
* Beijing
* Chicago
* London
* Los Angeles
* Montreal
* Paris, and
* Shanghai
Cities learn from each other one

project at a time, and civil engineers are the interpreters and translators.

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**Call for Papers for
the Conference**
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Keynote Speakers



The Keynote Speakers to be named for the International Conference on Sustainable Infrastructure

2017 taking place in the shadow of the Brooklyn Bridge will include some of the most distinguished luminaries from the civil engineering academic and professional communities. New York City's Mayor Bill de Blasio and Montreal Mayor Denis Coderre are on the list of those to be invited, along with others from the fields of engineering and construction including C.D. Mote, Jr., President of the National Academy of Engineering.

New York City



New York City combines landmarks new and old, world-famous museums and universities along with infrastructure that has allowed growth and prosperity and fueled innovation.

Global Infrastructure

Engineers and architects working in New York City benefit from public and private clients able to take the long view in regard to the Systems and the public space that defines the success of world class cities. Projects such as Brooklyn Bridge Park will be compared with the Berges de Seine in Paris, Madrid Río, and other resilient riverside work from London's South Bank to Montreal's Île Ste-Hélène.



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Conference Tracks

Methodology



Topics in methodology include:

- Infrastructure problems for developing nations
- Complex systems analysis
- Sustainable return on investment
- Infrastructure and management

Education



Topics in education include:

- Infrastructure resilience curriculum
- Sustainability optimization theory
- Water/energy/food nexus

Policy



Conference topics in policy include:

- Decision-making under uncertainty
- Sustainable urban planning
- Water quality improvements

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Conference Tracks

Finance



Topics in finance include:

- Innovative project financing
- Financing large projects globally
- Public private partnership
- Business case for social responsibility
- Development banks and climate funds

Technology



Topics in technology include:

- Distributed energy infrastructure
- Big-data analysis for urban science
- Autonomous vehicles

Other



Other conference topics include:

- Urban green space for health benefits
- Creating ecocities: principles and practices
- Business sustainability and ethics

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Conference Committees

Steering Committee

Conference Chair:

Feniosky Peña-Mora, ScD, FCIQB, NAC, M.ASCE,
Commissioner, NYC DDC

Steering Committee:

Feniosky Peña-Mora, ScD, FCIQB, NAC, M.ASCE,
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John Crittenden, PE, M.ASCE, Georgia Tech
Bill Wallace, ENV SP, F.ASCE, Wallace Futures
Doug J. Serreno, PE, ENV SP, M.ASCE, Long Beach
Michel Khouday, Eng. M.Eng, PMP, MBA, CSCE
Katherine Sierra, former VP, World Bank

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Wednesday, 10/25

ASCE Committees
ASCE Awards
Envision™ Training

Schedule at a Glance

Thursday, 10/26

Kick-off Breakfast
Workshops
Methodology Track
Education Track
Policy Track
Lunch Plenary
Tours
Reception

Friday, 10/27

Breakfast
Methodology Track
Education Track
Policy Track
Lunch
Finance Track
Technology Track
Other

Saturday, 10/28

Breakfast
Finance Track
Technology Track
Other
Finance Track
Technology Track
Other