

**"Emerging Solutions for Rising Waters Impacting the Infrastructure
of Cities Globally Due to Climate Change"**

Workshop focus:

NGOs working in collaboration with experts will present concrete proposals responding to climate change induced coastal transformation; characterized by the design of sustainable infrastructure with special attention to enhancement of public space. The discussion will be centred on the question of innovations in infrastructure technologies and policy measures necessary to ensure resilient and equitable urban growth. Exploration of design approaches, methods and tools will be structured to deepen participants' understanding of the interconnected workings of resilient systems. A set of measures will be proposed and vetted with our audience supported by examples of best practices and successful case studies from both local and international contexts. This is an opportunity to address resilient infrastructure and urban design solutions for rising waters impacting cities is critical at this moment in time with the full participation of all stakeholders in the Post-2015 Development Agenda.

How urban design & infrastructure, play interdependent roles to protect our coastal cities?

Sponsor: Global Family

Co-Sponsors:

World Christian Life Community

Next Generation Energy Leaders Council

International Council of Women

Sherwood Institute

NGO Committee on Sustainable Development

Moderator: **Ms. Yamina Djacta**, Director of UN-Habitat-NY Office

Speakers:

'Role of Infrastructure Resiliency / Future-Readiness':

Mr. S. Bry Sarté, PE, ASCE, LEED AP,

Founder & Executive Director of Sherwood Institute of San Francisco

'Role of Public Space':

Ms. Morana M. Stipisic, Associate AIA, LEED AP,

Research Advisor at Urban Design Lab, Earth Institute, Columbia University in the City of New York

'Role of Urban Design':

Ms. Juliana Azem Ribeiro de Almeida

Student team work at MSAUD, GSAPP, Columbia University in the City of New York

"Role of Dedicators to Forecast Storm Surges in NY/NJ Harbor"

Mr. Nicholas Kim, Hydrodynamic Modeler/Senior Project Manager, HDR-HydroQual &

UN/NGO Representative for World Christian Life Community - New York

This panel will contribute to the sustainable development agenda where urban design and infrastructure, as its integral living and evolving structure, play an interdependent role to protect our coastal cities' futures. Our NGO Co-Sponsors together with our panel of experts aims to enable the audience to comprehend the role of sustainable infrastructure in future readiness and most importantly in formulation of post-2015 development agenda including the Sustainable Development Goals.

**"Emerging Solutions for Rising Waters Impacting the Infrastructure
of Cities Globally Due to Climate Change"**



Yamina Djacta, Director of the New York Office of the United Nations Human Settlements Programme (UN-HABITAT), has been working in the field of economic and social development for more than twenty years. She also has been working with the United Nations for many years, at both Headquarters and field level, in the areas of policy, planning, programme development, management, capacity development, monitoring and evaluation. She joined UN-HABITAT in January 1996. Yamina, said her agency's mandate included, among other things, working towards improving living conditions and ensuring adequate shelter for all, including indigenous people.



S. Bry Sarté Founder of the Sherwood Institute of Design Engineers. Bry is an author, professional engineer, academic and non-profit founder. Eleven years ago, he started Sherwood Design Engineers that now has 3 offices in the United States and has worked on hundreds of leading international engineering projects. In over 20 countries their engineering designs have pioneered the intersection of infrastructure, ecological and urban design. Mr. Sarté is the author of *Sustainable Infrastructure: The Guide to Green Engineering and Design*, published by John Wiley & Sons. Mr. Sarté regularly serves as lecturer at top universities and conferences around the world, where he discusses applications of ecological engineering to planning, design and construction and is currently serving on the faculty of Columbia University's Architecture and Urban Design Program where he teaches the graduate course *Infrastructure, Resiliency and Public Space*. Sarté founded the Sherwood Institute in 2009, which is comprised of academic, professional, and government advisors from five countries directing research and innovation at the nexus of critical water and energy issues.



Morana M. Stipisic, Adjunct Assistant Professor of Architecture, Planning and Preservation, Affiliated with the Earth Institute's Urban Design Lab. Morana is trained as an architect, urban designer and planner and has fifteen years of progressively diversified international experience in production, management and teaching. Based in New York City, Morana currently teaches a seminar titled "Infrastructure, Resilience, and Public Space" at Columbia University's Graduate School of Architecture. Her academic career started in Bangkok where she taught architecture studio at Chulalongkorn University while collaborating with Hong Kong University's Masters of Urban Design Studio. Affiliated with the Earth Institute's Urban Design Lab, Morana established partnership with UN ESCAP and UN ECLAC, where she also provides urban design and planning consulting services. An outcome of that collaboration was the recent publication of the "Guidelines for Developing Eco-efficient and Socially Inclusive Infrastructure," where Morana was one of the key authors.



Nicholas Kim, Hydrodynamic Modeler/Senior Project Manager, HDR-HydroQual & UN/NGO Representative for World Christian Life Community has more than twenty five years of experience in the field of coastal environmental science. He has participated in numerous hydrodynamic and water-quality modeling studies for water bodies throughout the world. Mr. Kim has worked on a variety of studies including: coastal and estuarine hydrodynamics, sediment transport, salt intrusion, outfall siting, pathogen fate models, desalination and thermal impact assessments. In recent years, Mr. Kim has been involved in several projects to address the issues associated with changes in hydrodynamics/flooding of coastal areas due to sea level rises as a result of impending future climate changes. Mr. Kim received M.S. in Marine Environmental Science Program from State University of New York, Stony Brook in 1989 and joined HDR Engineering Inc. since then.



Juliana Azem Ribeiro de Almeida is an architect, graphic and urban designer. She holds a Bachelor degree in Architecture and Urbanism from the University of São Paulo, Brazil, and a Masters degree in Architecture and Urban Design from Columbia University. She is currently an Associate in Architecture of the Columbia University, assisting in the research and preparation of the Fall Urban Design Studio. She has experience in the graphic industry and architecture.