

Speaker Bios

Planning, Design and Development in the Global South: the “How To” for People and the Planet

Presented by

Architecture 2030

ASHRAE

International Network of Women Engineers and Scientists

Imen Makhoulf

Imen Makhoulf is a senior civil engineer from Tunisia. She has 20 years' experience in transport and energy infrastructure projects engineering and execution. She has significant experience in the engineering design and management of infrastructure projects, including urban infrastructures, interchanges, rural roads, bridges, drainage, sewage, and energy facilities. In addition to Tunisia, Makhoulf has experience working across Africa, in Mali, Burkina Faso, Chad, Gabon, and the Comoros island.

Makhoulf is active with international and national organizations, including the International Network of Women Engineers and Scientists (INWES), PIARC world road association, the LAC/MENA Mentorship program of Global Women Network in Energy Transition and the Tunisian Engineering Organization, among others. As an advocate for gender equality and empowerment of women, she has participated as a speaker in international conferences for INWES, PIARC, and IEEE.

Farooq Mehboob

Farooq Mehboob, P.E, Fellow ASHRAE is ASHRAE's President of ASHRAE, a global professional society committed to serve humanity by advancing the arts and sciences of heating ventilation, air conditioning, refrigeration, and their allied fields.

Mehboob is owner of S. Mehboob & Company, headquartered in Karachi, Pakistan, with offices in the U.A.E. He has been active in the design of more than 600 landmark projects across Pakistan, Central Asia, Africa the Middle East. He is responsible for introducing many new technologies to the Pakistan market as well as industry standards, with respect to the design, supervision and installation of HVACR Systems. Notably, these include VAV Systems, integrated BMS, thermal storage, solar central hot water systems, district heating and cooling, chilled beams and UFAD.

As director and regional chair of ASHR, Mehboob has been a true advocate for ASHRAE's globalization efforts. He helped establish four ASHRAE Chapters in Pakistan. During his tenure as regional director new ASHRAE Chapters were established in Bangladesh, South Africa, Egypt and the UK. In 2016, Mehboob was a part of ASHRAE's first international board meeting in Bangkok.

Mehboob has received several awards from the HVACR Society, including a Lifetime Achievement Award, and has published numerous papers and articles. He is the recipient of ASHRAE's Exceptional Service Award, the John F. James International award and the Regional Award of Merit.

Mehboob is a 1965 graduate of the East Pakistan University of Engineering Dhaka, Bangladesh with a Bachelor of Science in Mechanical Engineering.

Ghaith Tibi

Ghaith Tibi is an urban planner and sustainable development advisor with extensive experience in city planning and sustainability advisory projects in the Middle East. As an Associate in Arup's Planning team, he works closely with clients and stakeholders in the public and private sector advising on achieving ambitious sustainable planning and design outcomes appropriate for the region.

Being a multidisciplinary professional with strong analytical and integration skills, Tibi brings a strategic perspective to complex urban challenges setting out holistic frameworks founded on robust evidence-base and clear systems thinking. He has successfully led stakeholder engagement processes on several strategic projects, collaboratively working with senior government and business leaders to facilitate a shared vision and secure buy-in on key decisions.

Tibi is active in promoting sustainable planning and design principles. He has been a speaker at a number of high-profile international and regional events, including the recent MENA Climate Week organised by the UNFCCC where he spoke about the opportunity to build quality, decarbonised and resilient cities. Tibi also contributes to professional publications that support the transition to a net positive future, such as the State of Play Report for Circular Built Environment in Gulf Cooperation Council, which was prepared for the One Planet Network's Sustainable Buildings and Construction Programme.

In addition to a Bachelor of Architectural Engineering degree, Tibi has a Master of Engineering degree in Applied Energy from the American University of Beirut and a Master of Urban Planning from the American University of Sharjah. He is a Member of the International Society of City and Regional Planners (ISOCARP), the US Green Building Council and the Association of Energy Engineers.

Kotchakorn Voraakhom

Kotchakorn Voraakhom is a landscape architect from Thailand who works on building productive green public space that tackles climate change in dense urban areas and climate-vulnerable communities.

Voraakhom's projects offer innovative examples of the important functional role landscape plays in cities. Opened in 2017, Chulalongkorn Centenary Park is Bangkok's first critical piece of green infrastructure to reduce urban flood risk. The park can collect, treat, and hold up to one million gallons of water with on-site water management, alleviating overwhelmed public sewage during heavy rainfall. Thammasat Urban Rooftop Farm, Asia's largest, was opened. Her design repurposed wasted rooftop space to address food and water scarcity in preparation for future climate challenges. Chao Phraya Sky Park was realized. Once an inaccessible and incomplete sky railway, the old ruins are now whole, becoming the first recognized bridge park to cross a river in any capital city.

Voraakhom is the Chairwoman of the Climate Change Working Group of the International Federation of Landscape Architects (IFLA). In 2030 she was awarded the United Nations Global Climate Action Award. She has been featured in TIME 100 Next and Time Magazine's list of 15 women fighting against climate change. She was named BBC100 Women, the Green 30 for 2020 by Bloomberg. She is a TED Fellow, Echoing Green Climate Fellow, Atlantic Fellow, and Futurity Fellow from BMW Foundation. She

taught and received her master's in landscape architecture from Harvard University's Graduate School of Design.

Noella Nibakuze

Noella Nibakuze is Design Director at MASS Design Group, working on architectural design, construction administration, building technology, and sustainability. She has a particular interest in projects that have a positive impact on vulnerable communities in Africa, and hopes to improve people's lives through built environments that promotes sustainability and justice.

At MASS, Noella is leading the construction of the Rwanda Institute for Conservation Agriculture (RICA), a 1400 hectare One Health agricultural campus conceived and funded by the Howard G. Buffett Foundation and supported by the Government of Rwanda. Prior to RICA, she worked on the design of Masaka Affordable Housing, a high-density, sustainable model for affordable housing, designed to meet the environmental, cultural, and social needs of Rwanda's growing cities. Noella was also a Program Coordinator of the African Design Center, a twenty-month fellowship set to empower African designers to build a more equitable, just, and sustainable world.

Before joining MASS, Noella was an Architect at Studio 4 Architects in Rwanda, where she worked on education facilities, hotels, housing complexes and residential units, including Vision City Estate, the biggest residential housing project in Rwanda to date. Noella is also passionate about supporting young women pursuing STEM and design related careers. In 2020, she was an architectural design mentor on sustainable architecture to ten young Rwandan women artists taking part in the Green Architecture Project, a six-month project by the Soul of Nations Foundation. Noella is a 2018 Techwomen Fellow and is also involved with the School of Architecture and Built Environment at the University of Rwanda, where she has been a Visiting Lecturer for the past four years.

Noella is a member of the East African Institute of Architects, where she served as the treasurer between 2018-2019, and was nominated in 2021 by the Rwanda Institute of Architects to represent the Institute on the Union Institute of Architects' UIA 2021-2023 Working Groups on the Community Architecture Group. She holds a Master's Degree in Architectural Technology from Tshwane University of Technology in Pretoria.

Lisa Richmond, Moderator

As a Senior Fellow with Architecture 2030, Lisa Richmond supports strategic interventions to transform the built environment to zero carbon.

For 15 years, Lisa served as Executive Director of the American Institute of Architects (AIA) Seattle, where she significantly advanced architectural leadership on climate change mitigation and adaptation. She co-authored the AIA's national climate plan, and led development of climate action and professional education in AIA chapters across the US.

As a values-driven non-profit leader, Lisa is committed to systems-level change towards sustainable, equitable and livable communities. She is a certified leader with Al Gore's Climate Reality Project, and a Loeb Fellow at the Harvard University Graduate School of Design.