

MODERATORS AND SPEAKERS

Lucio Soibelman - University of Southern California, Los Angeles, California, USA



Fred Champion Estate Chair in Engineering Professor Astani Department of Civil and Environmental Engineering

Professor Soibelman obtained his bachelor's and master's degrees from the Civil Engineering Department of the Federal University of Rio Grande do Sul, Brazil. He worked as a construction manager for ten years before moving in 1993 to the US, where he obtained, in 1998, his Ph.D. in Civil Engineering Systems from the Civil and Environmental Engineering Department at the Massachusetts Institute of Technology (MIT). In 1998, he started as an Assistant Professor at the University of Illinois at Urbana Champaign. In 2004, he moved as an Associate Professor to the Civil and Environmental Engineering Department at Carnegie Mellon University (CMU), and in 2008, he was promoted to Professor. In 2012, he joined the University of Southern California as the Chair of the Sonny Astani Department of Civil and Environmental Engineering. During the last 25 years, he focused his research on advanced data acquisition, management, visualization, and mining for construction and operations of advanced infrastructure systems. He published over 150 books, book chapters, journal papers, conference articles, and reports. He performed research with funding from NSF (NSF career award and several other NSF grants), NASA, DOE, US Army, NIST, IBM, Bosch, IDOT, RedZone Robotics, and many others funding agencies. He is the former chief editor of the American Society of Civil Engineers Computing in Civil Engineering Journal.

Dayana Bastos Costa - Federal University of Bahia, Salvador, Bahia, Brazil



Associate Professor, School of Engineering, Department of Structural and Construction Engineering. Dean of Postgraduate Studies, Pro-Rector of Research and Postgraduate Studies.

Dayana Bastos Costa has Ph.D. in Civil Engineering - Construction Management. She has industrial experience in the Brazilian construction sector and international experience in research. She was a visiting researcher at Salford University-UK and Georgia Institute of Technology-USA. In 2008, Dr. Costa joined the Structural and Construction Engineering Department of the School of Engineering at the Federal University of Bahia-Brazil. She is currently an Associate Professor of Construction Management. Dr. Costa is a permanent professor of the Post Graduation Program in Civil Engineering (Academic Master's and Ph.D.). Dr. Costa's research area involves construction management, especially lean construction, production management, performance measurement and benchmarking, and sustainable management in construction, focusing on reducing environmental impacts on construction sites. Currently, she focuses her research on integrating digital technologies into the construction management process. Since 2009, Dr. Costa has been the principal investigator in several research projects the Brazilian governmental agencies and industry partnerships granted. As a result of these research projects, she published 31 journal papers, 31 book chapters, two edited conference proceedings, one edited book, and more than 130 conference papers. She supervised more than 25 doctoral and master theses.

Carlos Torres Formoso - Federal University of Rio Grande do Sul, Porto Alegre, Rio Grande do Sul, Brazil



Full Professor and coordinator of the Construction Management and Economics Group of the Building Innovation Research Unit (NORIE)

Carlos Torres Formoso is a Full Professor at UFRGS and the Construction Management and Economics Group of the Building Innovation Research Unit (NORIE) coordinator. He was the coordinator of the Graduate Program in Civil Engineering: Construction and Infrastructure (PPGCI) at UFRGS and is currently a permanent professor of the same program. Professor Formoso has a BD in Civil Engineering from UFRGS (1980), a master's degree in civil engineering from UFRGS (1986), and a Ph.D. from the University of Salford (1991). He did postdoctoral research at the University of California, Berkeley, USA (1999-2000). Professor Formoso was a visiting professor at several teaching and research institutions abroad, including the Norwegian Building Research Institute (Norway), ESPE (Ecuador), Strathclyde University (UK), University of Salford (UK), University of Agder (Norway), University of Huddersfield (UK). He is part of the Editorial Board of six international scientific journals. He has acted as an "ad hoc" consultant for FINEP, FAPESP, CAPES, CNPq, CYTED, and other funding agencies. Dr. Formoso works in the construction management area, mainly with the following subjects: project and management of production systems, lean production, work safety management, organizational learning, performance measurement, housing for social interest, and management of the product development process.

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Edward Jaselskis - North Carolina State University, Raleigh, North Carolina, USA



Distinguished Professor in the Department of Civil, Construction, and Environmental Engineering

Professor Jaselskis is the E.I. Clancy Distinguished Professor in the Department of Civil, Construction, and Environmental Engineering at North Carolina State University. He began his academic career at Iowa State University (ISU), where he became a full professor. During his 22 years at ISU, Dr. Jaselskis held several administrative positions, including professor-in-charge of the construction engineering program, director of the Engineering Policy and Leadership Institute in the College of Engineering, and interim chair for the Department of Civil, Construction, and Environmental Engineering. He has also served as a program director for the Information Technology and Infrastructure Program at the National Science Foundation and as Editor-in-Chief of the ASCE Journal of Construction Engineering and Management. His primary research interests relate to modeling construction project success and integrating innovative construction technologies (e.g., laser scanning, RFID, and virtual project teams) into the construction process, and he has performed research for CII, DOE, NSF, NCHRP, AGC, Departments of Transportation, Ames Laboratory, and several private companies. Professor Jaselskis holds a bachelor's degree in general engineering from the University of Illinois at Urbana-Champaign, a master's degree in civil engineering from MIT, and a Ph.D. in civil engineering from the University of Texas at Austin. He is also a registered professional engineer in the State of Iowa.

Makarand (Mark) Hastak - Purdue University, West Lafayette, Indiana, USA



Head of Construction Engineering and Management and Professor of Civil Engineering

Dr. Hastak is the Professor and Head of the Division of Construction Engineering and Management as well as a Professor of Civil Engineering at Purdue University. He has been involved with the construction industry for the past 30 years, where he has conducted research, taught, and assisted the industry in the area of construction engineering and management, including process improvement, disaster risk reduction, infrastructure management, cost control, project management decision-making, risk management, and strategic planning. Dr. Hastak is a Professional Engineer (PE) and a Certified Cost Professional (CCP). As an academic, he has worked on numerous Construction Industry Institute (CII) projects over the past 25 years. Dr. Hastak has authored over 200 publications on process improvement, project controls, capital rehabilitation planning, strategic planning, and decision-making based on his work. He has co-authored a widely used book on Infrastructure Planning, Engineering, and Economics published by McGraw-Hill (2006 and 2015). He serves on the Education Board of the Association for Advancement of Cost Engineering (AACE), where he is also the editor for the 6th edition of the Skills and Knowledge of Cost Engineering (2015) and the 2nd Edition of the CCP Certification Study Guide (2016). In addition to his strong analytical skills, Dr. Hastak utilizes his verbal and written communication skills in developing training material and workshops, as well as regularly teaching professional courses for the A/E/C industry.

Monica Santos Salgado - Federal University of Rio de Janeiro, Rio de Janeiro, Brazil



Full Professor until October 2021 and currently a Senior Collaborator and full member of the Architecture Graduate Program

Monica Santos Salgado is a Senior Collaborator and full member of the Architecture Graduate Program at the Federal University of Rio de Janeiro (UFRJ/PROARQ). She has a Ph.D. in Production Engineering, a master's in Architecture, MBA in Occupational Safety Engineering and Environmental Management, and a bachelor's degree in Architecture. She was a Full Professor at FAU UFRJ from July 1993 until October 2021. Dr. Salgado develops research related to the design management process of buildings and cities, exploring the possibilities offered by digital technologies, emphasizing BIM (Building Information Modeling). She is a member of the Editorial Board of the journal "Gestao e Tecnologia de Projetos." She supervised more than 100 final coursework at different levels of training (undergraduate, master's, and doctorate) with publications in journals and national and international conference proceedings. Referee of international journals such as "Architectural Engineering and Design Management"; "World Journal of Entrepreneurship, Management, and Sustainable Development"; "Journal of Cultural Heritage Management and Sustainable Development"; and national journals such as "Oculum Ensaios"; "Gestão e Tecnologia de Projetos"; "Cadernos do PROARQ." She is also a consultant ad-hoc for agencies such as CAPES, CNPq, FAPES, FAPESP, and FAPEMIG.

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Liyaning Maggie Tang - University of Newcastle, Callaghan, Australia



Senior Lecturer of the School of Architecture and Built Environment

Dr. Liyaning (Maggie) Tang received her bachelor's degree from Tsinghua University, Beijing, China, and her Ph.D. from The Hong Kong Polytechnic University, China. She subsequently worked as a post-doctoral researcher at the University of Illinois at Urbana-Champaign, US, and then as a lecturer at West Virginia University, US, for three years. She collaborated closely with government departments in China and the US on several research projects. These included Public-Private Partnership projects, investigations into highway pavement construction, dust control on construction sites, environmental impact assessments of construction projects, as well as the carbon footprint in construction. She is now a Senior Lecturer at The University of Newcastle. She teaches construction courses and supervises both undergraduate and graduate students. She is a full registered Principal Supervisor (Doctorate) in Graduate Supervision. She is also a World Bank Group / APMG Certified PPP Professional (CP3P) Foundation trainer. She is a member of CIB and a Fellow of the Higher Education Academy, UK. Her current research focuses on "Improving Mental Health of Construction Site Workers and Construction Site Safety by Using Big Data Analytics."

Don Ward - International Council for Research and Innovation in Building and Construction (CIB)



Chief Executive at CIB, International Council for Research and Innovation in Building and Construction

Don Ward has been Chief Executive of Conseil International du Bâtiment, the International Council for Research and Innovation in Building and Construction, since February 2020. This not-for-profit NGO established in 1953 by the United Nations is the global network for collaboration in built environment research and innovation, and Don is its 10th Secretary-General. Don was previously chief executive of the UK best practice and innovation organization Constructing Excellence for 15 years and its international arm in later years. He has 35 years of experience in innovation and best practices in the built environment sector, specializing in policy-making, industry change, strategic procurement, supply chain integration, collaborative working, and housing, buildings, and infrastructure sustainability. He was an advisor to the UK Government's Cabinet Office, Secretary to the British Standards Institution's committee on construction procurement, and a Simon Industrial Fellow at Manchester Business school. He has undertaken speaking engagements and advisory roles in over 30 countries, including Australia, Hong Kong, Japan, Korea, Netherlands, Scandinavia, the USA, and across the Middle East region.

Akintola Akintoye - Leeds Beckett University



Dean of the School of Built Environment, Engineering, and Computing

Dr. Akintoye is the Dean of the School of Built Environment and Engineering at Leeds Beckett University. He holds the Chair of Construction Economics and Management. He was Visiting Professor at the Department of Civil Engineering, Asian Institute of Technology, Thailand, and the Department of Building and Real Estate, Hong Kong Polytechnic University. He was a Distinguished Scholar at the University of Cape Town, South Africa. He is a fellow of the Royal Institution of Chartered Surveyors and the Chartered Institute of Building. In addition, he was Editor-in-Chief of the Journal of Financial Management of Property and Construction. Professor Akintoye is the co-coordinator of the World CIB Working Commission into Public Private Partnership. Professor Akintoye spent many years of his academic life engaged in teaching, research, and academic enterprise directly linked to the economic formation, modeling, and prediction of construction activities. He has gained international recognition for his scholarly work in construction risk management and procurement, construction estimating and modeling, construction economics, and construction inventory management. Dr. Akintoye has supervised 20 doctoral graduates and advised numerous master's students. In addition, he has over 200 academic publications and outputs and has been a keynote and invited speaker to conferences in different countries. He has continued to work very closely with the industry. He has established a robust international network of experts in many countries with government institutions and private organizations on PPPs and PFIs.

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Simaan Abou Rizk - University of Alberta, Edmonton, Alberta, Canada



Distinguished University Professor and Canada Chair in Construction Engineering and Management

Dr. Simaan AbouRizk, Ph.D., PEng, FRSC, is an award-winning pioneer in construction simulation and risk management. His contributions in the field include over 350 technical publications and four textbooks. For almost 30 years, Professor Abourizk and his research team have focused on advancing simulation modeling for improved project management and control of large-scale construction projects, resulting in the foundation of several simulation tools and strategies implemented throughout the industrial construction sector. Partnering with 40 organizations and receiving over \$4.5 million in research funding from industry alone, the success and distinctiveness of Dr. Abourizk's research program are a consequence of building strong industrial research partnerships focused on advancing research, teaching, and overall practice. This collaborative approach has garnered widespread support from numerous funding agencies, policymakers, and industrial practitioners and has been instrumental in expanding the University of Alberta's Hole School of Construction Engineering into one of the most reputable and well-respected Construction Engineering and Management Programs in North America.

Patricia Tzortzopoulos - University of Huddersfield, Huddersfield, West Yorkshire, UK



Professor of Integrated Design, Associate Dean for Research and Enterprise, and Director of the Innovative Design Lab research center at the School of Art, Design and Architecture

Professor Patricia Tzortzopoulos Fazenda graduated in Architecture and Urbanism (UFRGS, Brazil). Her Ph.D. was awarded in 2004 by the University of Salford, UK. She has industrial experience in collaborative design integration and management. She has been a Professor of Integrated Design, Associate Dean for Research at the School of Art Design and Architecture, and Director of the Innovative Design Laboratory and Head of the Department of Architecture and 3D Design since September 2014. Patricia joined the University of Huddersfield in May 2014 as the Head of the Department for Architecture and 3D Design (up to January 2018). Her role combines research, administration, and teaching activities. She has taught Design Management, Value Generation, and Building Information Modelling in architectural design, completed several research projects, supervised research students, and published widely. Patricia's career encompasses design, architecture, new product development, and the built environment, focusing on multidisciplinary integration between design and construction through collaborative working and value generation in design. Patricia was appointed as a research coordinator at HaCIRIC (Health and Care Infrastructure Research and Innovation Centre, EPSRC IMRC). She developed and led the MSc BIM and Integrated Design, launched in 2011. Then, she became Director of the Design and Property Management Directorate at the School of the Built Environment.

Geoffrey Qiping Shen - The Hong Kong Polytechnic University, Hong Kong, China



Director of Global Engagement and Chair Professor of Construction Management

Geoffrey Shen is the Director of Global Engagement and Chair Professor of Construction Management at The Hong Kong Polytechnic University, with a proven track record of accomplishment in construction engineering and management and a particular interest in sustainable construction. He has led many research projects with funding exceeding HK\$60 million and has authored 400+ papers in peer-reviewed academic journals. He is a member of the Engineering Panel of The Research Grants Council in Hong Kong and a member of the editorial boards of several leading journals in construction engineering and management. He has been invited to give keynote presentations at many international conferences. Dr. Shen was appointed as a member of the Built Environment Panel of the Research Assessment Exercise in Hong Kong in 2006. He was the Chairman of the Global Leadership Forum in Construction Engineering and Management Programs between 2014 and 2016. Administratively, he was the Interim Vice President (Student Affairs) in 2018, Associate Dean of the Faculty of Construction and Environment between 2007 and 2021, and Head of the Department of Building and Real Estate between 2008 and 2014.

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Fernanda Leite - University of Texas at Austin, Austin, Texas, USA



Full Professor in Construction Engineering and Project Management, in the Civil, Architectural and Environmental Engineering Department

Dr. Fernanda Leite is a Full Professor in Construction Engineering and Project Management in the Civil, Architectural, and Environmental Engineering Department at the University of Texas at Austin. She is the past Chair of a University-wide Bridging Barriers research initiative called Planet Texas 2050. Most of her work has been in building and infrastructure systems information modeling, Scan-to-BIM, visualization and collaboration technologies, and circular economy in the built environment. She has a Ph.D. in Civil and Environmental Engineering from Carnegie Mellon University. Before her graduate education, she worked as a Project Manager in her home country Brazil, in multiple government and commercial building construction projects. Her technical interests include information technology for project management, BIM, collaboration, and coordination technologies. At the University of Texas, Dr. Leite teaches Project Management and Economics and graduate-level courses on Building Information Modeling and Construction Safety.

Wellington Didibhuku Thwala - University of South Africa (UNISA), Pretoria, South Africa



Professor of Construction Project Management and Leadership at the Department of Civil Engineering, College of Science, Engineering and Technology (CEST)
Chairman of the Construction Management Foundation Advisory Board

Professor of Construction Project Management and Leadership at the Department of Civil Engineering, College of Science, Engineering and Technology (CEST), University of South Africa (UNISA), South Africa. He is one of the researchers rated by the National Research Foundation (NRF). Professor Thwala is the Chairman of the Construction Management Foundation Advisory Board. Professor Thwala has varied research interests, including project management, construction management, construction health and safety, engineering design management, economic and social infrastructure delivery, competitive business intelligence, and leadership.

Burçin Becerik-Gerber - University of Southern California, Los Angeles, California, USA



Chair and Dean's Professor of Civil and Environmental Engineering and co-director of the Center for Intelligent Environments (CENTIENTS)

Dr. Becerik-Gerber is the Chair and Dean's Professor of Civil and Environmental Engineering at the University of Southern California. She is also the co-director of USC's Center for Intelligent Environments (CENTIENTS). Her research focuses on interactions between the built environment and its users and aims to understand and predict how and why humans interact with their built environment. She then uses this information to develop novel technologies, interfaces, and tools to improve the human experience, well-being, and performance, as well as to achieve societal objectives, such as energy efficiency, safety, security, and health. In her work, Burçin uses machine learning and data science to improve the design, construction, and system intelligence of user-centered built environments. Dr. Becerik-Gerber holds degrees in Civil and Environmental Engineering and Architecture. She graduated from Istanbul Technical University with a Bachelor of Architecture (1999) and an M.S. in Architecture (2001). She attended the University of California at Berkeley, receiving an M.S. in Engineering degree (2002) with a special focus on Construction Engineering and Management. She earned her Doctor of Design degree (2006) from Harvard University. Her doctoral work at Harvard University focused on online collaboration and project management. Upon completing her doctoral degree, she worked as a consultant and taught in the area. Her responsibilities included developing corporate-wide program management information systems for large and complex construction projects. In 2008, she joined the Sonny Astani Department of Civil and Environmental Engineering.

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Sérgio Scheer - Federal University of Paraná, Curitiba, Paraná, Brazil



Consultant and Full Professor (retired), Construction Engineering Department and Senior Researcher, Civil Engineering Research Center

Sérgio Scheer is a retired Professor at the Federal University of Paraná (UFPR), and now he is acting as a research leader at the Civil Engineering Research Center at the same University. He has a bachelor's degree in civil engineering, a master's degree in Structural Engineering, and a Ph.D. in Computer Science. Dr. Scheer is a member of the ASCE Global Center of Excellence in Computing and the ASCE Technical Council on Computing and Information Technology. He is also Brazil's 'representative member' on the Board of Directors of the International Society for Computing in Civil and Building Engineering. He was a member of the Working Committee for Information Technology of the International Society for Bridges and Structural Engineering from 2001 to 2009. He founded and led the ICT Task Group of the Brazilian Association for Technology in the Built Environment (2012-2017), and he was the president of this association from 2018 to 2022. He is one of the founders of BIM Forum Brazil and its first Vice-President from July 2020 to May 2022, where he still acts as a member of the BIM Forum's Steering Committee. Professor Scheer has a strong experience in Computer Science and Information Technology for applications in Engineering, focusing on Graphical Processing and Visualization, systems development, and teaching and learning environments. He is active in the following subjects: Information and Communication Technology (ICT) for Architecture, Engineering, and Construction, especially in BIM and systems integration for AEC, as well as in collaborative work, innovative applications, and educational object development for engineering education.

Wilson Lu - University of Hong Kong



Professor in the Department of Real Estate and Construction, Faculty of Architecture
Associate Dean (Research) of Faculty of Architecture

Wilson Lu holds a BSc in Computer Science and an MSc in Construction Economics and Management. He was awarded his Ph.D. by the Hong Kong Polytechnic University (HK PolyU). He worked as a research fellow at the University of Reading, UK, from 2006 to 2008. His research interests focus on Construction Management in two directions: construction informatics (BIM, smart construction, big data, and blockchain) and construction waste management (management, economics, and public policies). Prof. Lu is the Director of iLab@hku, an urban big data hub that facilitates multi-dimensional and multi-disciplinary urban big data collection, storage, analysis, and presentation to inform decision-making in urban development. Prof. Lu has been the Associate Dean (Research) of the Faculty of Architecture (FoA) since March 2016. He is pledged to serve colleagues and assist the Dean of FoA with Scholarship (e.g., grant applications), Knowledge Exchange (KE), and other ad hoc businesses (e.g., Research Assessment Exercise 2020). Prof. Lu is the President of the Chinese Research Institute of Construction Management (CRIOCM).

Dongping Fang - Tsinghua University, Beijing, China



Professor, Dean of School of Civil Engineering and the Executive Director of Institute for Future Cities and Infrastructures

Dr. Dongping Fang is a Professor at Tsinghua University, China. He is the Dean of the School of Civil Engineering and the Executive Director of the Institute for Future Cities and Infrastructures. Prof Fang's research field is construction safety and urban resilience, with more than 200 books and papers published in English, Chinese, and Japanese. He is a former Vice President of CIB (International Council for Research and Innovation in Building and Construction) and the chair of its program committee. He has been sitting on boards and committees of many international and national government, industry, and academic organizations. He has been honored as Visiting Professor in Australia, Sweden, and the UK and invited as a keynote speaker for many international conferences, such as CIB World Building Congress and Urban Transitions Global Summit.

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Mohamed Al-Hussein – University of Alberta, Edmonton, Alberta, Canada



Professor, Faculty of Engineering- Civil and Environmental Engineering Dept
NSERC Industrial Research Chair in the Industrialization of Building Construction

Dr. Al Hussein is the NSERC Industrial Research Chair in the Industrialization of Building Construction and a Professor at the University of Alberta. Dr. Al-Hussein's research has proffered a number of contributions to the industrialization of the building construction process through the development of modular and offsite construction technologies. This has included construction automation for equipment selection and on-site utilization; 3D and 4D modeling and automation; optimizing construction operations (from the initial planning stage to project completion, including scheduling, budgeting, and general project management); automating the design and drafting process; minimizing construction material waste through intelligent 3D-design; quantifying and reducing CO₂ emissions during the construction process, improving invoice processing for construction organizations through the application of lean and post-lean principles, conducting evidence-based studies to reduce health and safety hazards in the built environment through improved design, and improving the health and well-being of construction site workers and the quality of life for the public/users of completed projects.