



ACI Ambassador Dr. Ishita Manjrekar
Vice President, ACI-India Chapter

Dr. Ishita Manjrekar, Technical Director at Sunanda Global, Mumbai, India, oversees Sunanda's Research and Development, and she focuses specifically on developing and marketing Sunanda's line of sustainable construction chemicals. Her areas of expertise include durability, admixtures, corrosion protection, and damp proofing. Manjrekar also serves as Director on the Board of American Concrete Institute (ACI). She is, in addition, a member of the Board of Directors of the India Chapter – ACI, where she serves as Vice President. She is active with several professional bodies, including the Indian Green Building Council, Indian Concrete Institute, and the Indian Building Congress.

She has been featured on Bloomberg TV and Bloomberg Radio numerous times as a subject matter expert on sustainability and green technologies. Her expertise has also been sought by print and electronic media including Reuters, the Financial Times, Forbes, BBC News, and Marketwatch.



Dr. Qian Shunzhi
Asst. Professor, Nanyang Technological University

Prior to joining NTU, Dr. Qian was an associate professor at SEU, Nanjing, China (2009-2013) and a postdoctoral researcher at Delft University of Technology in the Netherlands (2007-2009). His areas of expertise include the development of advanced civil engineering materials, such as bendable concrete ECC, self-healing material, life cycle assessment of civil infrastructures, and 3D printing of concrete.

Dr. Qian has published in numerous top level journals and written conference papers. His work on "Bending Test and Inverse Analysis for Strain Hardening Cementitious Composites (SHCC)" has been recommended by RILEM TC-HFC as a standard test method for SHCC material. His awards include 2012 Jiangsu TRI Teaching Award by SEU; 2011 Top Talents Award in Six Major Disciplines by Jiangsu Provincial Ministry of Construction; 2010 Teaching and Research Excellence Award for Young Faculty Member by SEU; 2006 Nominee for Graham Environmental Sustainability Fellowship by UM; 2005 Travel Grant Awards for International Conferences by UM; and 2001 John L. Tishman Fellowship by UM. Dr. Qian is a member of IALCEE, IA-FRAMCOS, RILEM TC-HFC and TC-SHM, TRB, and the Chinese Society of Civil Engineering (CSCE).



Dr. Sudharshan N. Raman
President, ACI-Malaysia Chapter

Dr. Sudharshan N. Raman, MASCE, MACI; is a civil engineer by training, who specialises in concrete engineering and technology, and structural resilience. He is currently the President of the Malaysian Chapter of American Concrete Institute, and an Associate Professor in Structures and Materials at Universiti Kebangsaan Malaysia. Dr. Raman is also a Committee Member of the Civil & Structural Engineering Technical Division of The Institution of Engineers, Malaysia (IEM); a Council Member of the Concrete Society of Malaysia (CSM); as well as an Associate Member in two ACI Technical Committees, ACI Committee 239 - Ultra-High Performance Concrete and ACI Committee 549 - Thin Reinforced Cementitious Products and Ferrocement.

Dr. Raman completed his PhD at The University of Melbourne, Australia in 2011 with a focus on structural engineering and infrastructure protective technologies. Over the years (from 2002 to date), he has built his reputation as a researcher in concrete structures and materials, and infrastructure protective technologies; and has taught structures and construction related courses at various Institutions in Malaysia and abroad. Prior to joining the academia, he was employed as an engineering design consultant, and a specialist prestressed concrete contractor. He has also been involved with numerous consultancy projects in the area of structural engineering and infrastructure resilience, within the public and private sectors, both locally and internationally.



Dr. Somnuk Tangtermsirikul
Professor, Thammasat University, Thailand

Dr. Somnuk obtained his B.Eng degree in Civil Engineering with honours from Chulalongkorn University, Thailand and his Master's and Doctoral degrees from the University Tokyo, Japan. He is currently a professor at the School of Civil Engineering and Technology, Sirindhorn International Institute of Technology (SIIT), Thammasat University, Thailand and the Centre Head of the Construction and Maintenance Technology Research Centre (CONTEC). He serves as an advisor of Thailand Concrete Association, and Civil Engineering Chapter of the Engineering Institute of Thailand. He is also the current Vice President (Technical) of Asian Concrete Federation (ACF).

Currently, he serves as a board member of various journals such as Advanced Concrete Technology, Journal of Asian Concrete Federation, Journal of Thailand Concrete Association, etc. He has been actively involved in the establishment of many local and international standards in the field of concrete structures, materials and maintenance. His research interests cover waste utilisation, cement replacing and recycled materials in concrete, special and functional construction materials and structures, durability and service life analysis and design of concrete structures, modelling of concrete behaviour, life cycle evaluation and maintenance of concrete structures.



Dr. Shi Caijun
Professor, Hunan University, China

Dr. Shi Caijun is a distinguished national expert in China, vice president of Asian Concrete Federation, Chair and Professor of the College of Civil Engineering, Hunan University. His research interests include characterisation and utilisation of industrial by-products and waste materials; design and testing of cement and concrete materials; development and evaluation of cement additives and concrete admixtures; and solid and hazardous waste management.

He has developed several novel technologies and products in these areas, and has been granted 4 US patents and 18 Chinese patents. One of his inventions - self-sealing/self-healing barrier has been used as a municipal landfill liner in the world's largest landfill site in South Korea. He developed pre-conditioned technology to overcome the barrier for effective CO₂; curing of concrete products with CO₂; and proposed a method on "Design of High-Performance Concrete with Multiple Performance Requirements" which has been used for several large construction project in China. His patented cement grinding aids have been widely used by several state-owned companies.



Dr. Tan Jun Yew
Senior Technical Manager
Samwoh Innovation Centre Pte Ltd

Dr. Tan holds a Ph.D. in Civil Engineering from the National University of Singapore. He is currently the Senior Technical Manager at Samwoh Innovation Centre Pte Ltd, a research and consultancy company.

Dr. Tan has more than 10 years of experience in ready mix concrete quality control systems and procedures and concrete mix design. He provides technical training and oversees key quality aspects of ready mix concrete operations. He also helps the company to achieve various accreditations and certifications. Dr. Tan oversees the design and production of numerous specialty concrete mixes such as temperature-controlled, light weight, heavy density, self-compacting concrete, shotcrete, coloured concrete and others. He regularly provides advice and consultation to project sites on the application of these specialty concrete.



Dr. Wong Teck Neng
Associate Professor, Nanyang Technological University

Dr. Wong Teck Neng is an Associate Professor at the School of Mechanical and Aerospace Engineering, Nanyang Technological University. He is the Programme Director, Building and Construction Programme, Singapore Centre for 3D Printing. His research interests include: the flow of cement slurry for 3D printing of concrete, mixture design, multiphase flow in pipelines and spray cooling heat transfer.



Dr. Cai Wei
Industry Manager, Wacker Chemicals (South Asia) Pte Ltd

Dr. Cai Wei is a member of the Global Product Development team, the business unit Construction Silicones at WACKER. There, his main responsibility as the Industry Manager, is to focus on the innovation of silanes and silicones in construction materials.

Prior to this, he worked as a Research Scientist in the Global R&D Department at HeidelbergCement AG. He was responsible for the planning and execution of various R&D tasks, involving numerous projects not only within the company but also with external partners. He has vast experience in various topics, from special cement evaluation, innovative concrete development to environmental impact assessment.

Before joining HeidelbergCement AG, he studied at ETH Zürich in the Institute of Building Materials with Prof. R.J. Flatt's PCBM group. It was there that he obtained his PhD. During his time there, he conducted systematic studies on subcritical cracking in brittle cementitious materials. This project was sponsored by the Swiss National Science Foundation. His former experience also includes research work at the Technical Research Center of Finland (VTT), studying the electrochemical behaviour of cladding alloys under simulated PWR conditions.



Dr. Ang Zi Yang Adrian
Manager, TP School of Engineering (ENG)

Dr. Adrian Ang was awarded the NU-POLY-SIT PhD Scholarship in 2013 to pursue his research with Newcastle University, UK. He is currently the Manager of the Diploma in Green Building and Sustainability at Temasek Polytechnic (TP), Singapore. He conducts lectures for both the Diplomas in Green Building and Sustainability and the Specialist Diploma in Energy Management and Sustainable Design programme at TP. He is also an Associate Faculty at the Newcastle University, lecturing in Energy

Storage for the MSc in Energy and Sustainability programme.

Dr. Ang has been appointed by the National Environment Agency (NEA), Singapore, to sit on the Singapore Certified Energy Manager (SCEM) examination and panel board. He is a registered Green Mark Manager with Building Construction Authority (BCA), Singapore, LEED Accredited Professional, US and a Certified Project Manager. In recognition of his extensive community and public service contributions, Dr. Ang was conferred the Public Service Medal by Mdm. Halimah Yacob, President of Singapore, in 2019.

His research areas include Energy, Bio-Climatic Analysis and Sustainable Design.



Dr. Leong Meng Fatt
Course Chair, TP School of Applied Science (ASC)

Dr. Leong Meng Fatt received his Bachelor in Chemical Engineering from the University of Wisconsin-Madison, and his PhD in Engineering from Nanyang Technological University. He has published 22 peer-reviewed journal papers and 3 patents.

In his current capacity as the Course Chair of the Chemical Engineering Diploma Course in Temasek Polytechnic, he is constantly looking for opportunities to integrate education with industry collaboration and research innovation.



Ms. Noor Faridah A. Rahim
Deputy Manager, TP Temasek SkillsFuture Academy (TSA)

Faridah has twenty years of work experience at Temasek Polytechnic, an institution of higher learning. Her experience includes skills in the areas of leadership training, character education, wellness and work-life harmony. She has ten years of industry work experience in business research and marketing. She also coaches and counsels working executives, managers and youths; as well as conducts motivational training and talks. Faridah is the curator of five micro-learning courses on embracing work-life harmony, stress management and developing a winner's work attitude, including best-selling courses on motivation and counselling. Currently, she curates micro-learning courses, develops and markets training solutions at Temasek SkillsFuture Academy.