

## Meet our Speakers

The APCChE 2023 brings you the best Chemical Engineers in their respective fields.



### Prof. Robert S. Langer, ScD

Robert Langer is one of 12 Institute Professors at the Massachusetts Institute of Technology (MIT); being an Institute Professor is the highest honor that can be awarded to a faculty member. He has written over 1,500 articles, which have been cited over 383,000 times; his h-index of 307 is the highest of any engineer in history and the 2nd highest of any individual in any field. His patents have licensed or sublicensed to over 400 companies; he is a cofounder of a number of companies including Moderna. Dr Langer served as Chairman of the FDA's Science Board (its highest advisory board) from 1999-2002. His over 220 awards include both the United States National Medal of Science and the United States National Medal of Technology and Innovation (he is one of 3 living individuals to have received both these honors), the Charles Stark Draper Prize (often called the Engineering Nobel Prize), Queen Elizabeth Prize for Engineering, Albany Medical Center Prize, Breakthrough Prize in Life Sciences, Kyoto Prize, Wolf Prize for Chemistry, Millennium Technology Prize, Priestley Medal (highest award of the American Chemical Society), Gairdner Prize, Hoover Medal, Dreyfus Prize in Chemical Sciences, BBVA Frontiers of Knowledge Award in Biomedicine, and the Balzan Prize. He holds 40 honorary doctorates, including Harvard, Yale, Columbia, and Northwestern, and has been elected to the National Academy of Medicine, the National Academy of Engineering, the National Academy of Sciences and the National Academy of Inventors.

### Prof. King Lun Yeung

Professor King Lun Yeung is the Director of the HKUST-CIL Joint Laboratory of Innovative Environmental Health Technologies, the HKUST ENVF-INA/LMA Joint Laboratory of Environment, and the France-HKUST Innovation Hub. He was the Associate Dean of the School of Engineering and Director of the Technology Leadership and Entrepreneurship Program (2014-2018). He is a recipient of the 2020 Chief Executive's Commendation for Community Service for the Outstanding Contribution to the Fight Against COVID-19, the 2018 Gold Medal and three 2022 Silver Medals from the International Exhibition of Inventions in Geneva, and the 2015 Google Solve for X Moonshot. Professor Yeung's research on the Environmental Health Technologies for Healthier Living is rated a world-leading research with outstanding impact in term of reach and significance by the territory-wide Research Assessment Exercise 2020 conducted by the University Grant Council of the Hong Kong SAR government. It is one of the few among the 340 research impact cases rated 4 stars by a panel of 361 distinguished scholars from around the world



### Prof. Raymond R. Tan

Raymond R. Tan is the current Vice-President for Research and Innovation, a Distinguished Full Professor of the Department of Chemical Engineering, and University Fellow of De La Salle University, as well as an Academician of the Philippine National Academy of Science and Technology. In the Scopus database, he has over 500 publications and 11,000 citations, with an h-

index of 54. He works in the research area of process systems engineering with applications to carbon management and process integration, and is the co-developer of the carbon emissions pinch analysis (CEPA) algorithm. He is an editor-in-chief of Process Integration and Optimization for Sustainability, an associate editor of Sustainable Production and Consumption and of Cleaner Engineering and Technology, and an editorial board member of Clean Technologies and Environmental Policy. He has received multiple scientific awards from organizations in the Philippines, is ranked in the "Stanford List" of the top 2% of the world's scientists, and is in the Reuters "Hot List" of the world's 1,000 most influential climate researchers.

## Prof. Mikio Sakai



Dr. Mikio Sakai is currently Full Professor at the Department of Nuclear Engineering & Management in The University of Tokyo. He earned his Ph.D. degree from The University of Tokyo in 2006. Then, he became Assistant Professor in 2007, Associate Professor in 2008, and Full Professor in 2023 at The University of Tokyo. In addition, he has become Visiting Reader at Imperial College London since 2016 and Visiting Professor at the University of Surrey since 2019. He extensively studies modeling and simulation for granular and multi-phase flows, parallel computation techniques for the discrete element method, and data science for powder systems. He is a world-leading professor in computational granular dynamics and has delivered many invited lectures at conferences. Besides, he has received some scientific awards, including The SCEJ Award for Outstanding Research Achievement presented by The Society of Chemical Engineers, Japan, the IP Award presented by the Information Center of Particle Technology, the Best Paper Award presented by the Society of Powder Technology of Japan and JACM Fellows Award presented by Japan Association for Computational Mechanics. He holds important posts in the powder technology community, including Director of the Society of Powder Technology of Japan, as well as Head of the Modeling & Simulation Division and Chairperson of the AI Technical Committee in the Association of Powder Process Industry and Engineering, JAPAN. Currently, he is the Editor of Chemical Engineering Science and Granular Matter.



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## About us

The 20th APCChE Congress is organized by the Philippine Institute of Chemical Engineers.