Keynote Speakers

Dr. Shubhakar Kalya
Faculty in Engineering Product Development (EPD),
Pillarat Singapore University of Technology and Design (SUTD), Singapore.

Dr. Shubhakar Kalya obtained his PhD degree from Nanyang Technological University (NTU), Singapore in 2012/13 and Master's degree in Microelectronics from Indian Institute of Science (IISc), Bangalore, India in 2007.He has a Bachelor's degree in Electronics and Communication Engg., from NMAMIT Nitte, Mangalore. His research interests are in nanoscale characterization and analysis of High-κ gate dielectrics for logic and memory devices, and failure analysis of nanoscale electronic devices. He has worked as a researcher at Institute of Materials and Research Engineering (IMRE), Singapore from July-2009 to Dec-2012, and involved in research related to characterization of High-κ gate dielectrics using scanning tunneling microscopy and atomic force microscopy technologies. Dr. Kalya has authored/co-authored over 30 technical publications in reputed journals and international conferences. He has also presented invited talks at four International conferences. He is a reviewer and committee member of few journals and conferences.

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Dr. G. Louis Hornyak, Ph.D.
Director
Center of Excellence in Nanotechnology
Asian Institute of Technology

Dr. Hornyak has been involved in nanotechnology research and development for over 25 years. His background includes a Ph.D. from Colorado State University and a Bachelor's Degree in Chemistry from the University of California at San Diego. He also holds a Master's Degree in Human Genetics. Dr. Hornyak is an advocate of applying nanotechnology developed from bottom-up chemistry— an inexpensive approach to nanotechnology that is straightforward to scale up to industrial levels. Development of pro-poor technologies from nanotechnology is an objective of the Center of Excellence in Nanotechnology.

Siddharth Jabade, PhD (IIT Bombay)
Professor and Dean, Alumni and International Relations,
Vishwakarma Institute of Technology, Pune-India

Siddharth Jabade has a multi-faceted wide experience of more than 20 years in the field of education, research, innovation, intellectual property rights and business development. He completed his PhD from the Indian Institute of Technology, Bombay (IIT Bombay). He is a Professor of Mechanical Engineering at the Vishwakarma Institute of Technology, Pune, India (VI, Pune) and Dean, Alumni and International Relations. He is the author of several scientific publications and inventor in patents related to inventions in heat transfer and appropriate technologies. He is a qualified patent agent at the Indian Patent Office. Siddharth is a site director of the National Science Foundation (NSF) Energy Smart Electronic Systems Center at VI Pune, established in collaboration with State University of New York at Binghamton, USA. He is also the Coordinator, "Intellectual Property Rights Facilitation Centre" at VI, Pune. He was Director, Innovation and Intellectual Property Rights at then AIT Consulting (now AIT Solutions), Asian Institute of Technology based in Bangkok, Thailand. He has developed Intellectual Property Policy of the Sultan Qaboos University, Muscat OMAN; he is involved in the development of the innovation management process supported with a capacity development programme on patent search and analysis at this Sultan Qaboos University, Muscat OMAN. Siddharth is a key resource for the NATS (Naturally Acceptable and Technological Sustainable) that is formed to reinvent technologies for decentralized waste water management systems at Asian Institute of Technology, Thailand. The Bill & Melinda Gates Foundation has awarded 5 million USD grant to NATS team since late 2011 to develop innovations in decentralized systems and technologies using a market-led approach for full or partial treatment and disposal of human excreta and wastewater from dwellings and businesses. Siddharth is a Lead International Expert identified by UNESCO to contribute on innovation and intellectual property aspects in the publication related to "Meeting Water Challenges in Developing Countries". He has been an International Consultant to Asian Development Bank (ADB) for preparation of Sanitation Business Plans for 4 national centers under South Asia, Urban Knowledge Hub. Siddharth has co-authored a book published by CRC Press, Taylor & Francis Group, it is entitled "Nanotechnology Intellectual Property Rights: Research, Design and Commercialization".

Prof. Dominic Foo
Director for Research, Faculty of Engineering,
University of Nottingham Malaysia, Malaysia.

Ir. Dr. Dominic Foo is a Professor of Process Design and Integration at the University of Nottingham Malaysia Campus, and is the Founding Director for the Centre of Excellence for Green Technologies. He is a Fellow of the Institution of Chemical Engineers UK (IChemE), a Chartered Engineer with the UK Engineering Council, a Professional Engineer with the Board of Engineer Malaysia (BEM), as well as the 2012/3 and 2013/4 sessions chairman for the Chemical Engineering Technical Division of the Institution of Engineers Malaysia (IEM). He is a world leading researcher in process integration for resource conservation. He establishes international collaboration with researchers from various countries in the Asia, Europe, American and Africa. Professor Foo is an active author, with three books, more than 110 journal papers and made more than 170 conference presentations, with more than 20 keynote/plenary speeches. He served as International Scientific Committees for many important international conferences (CHISA/PRES, FOCAPD, ESCAPE, PSE, etc.). Professor Foo is the Editor-in-Chief for Process Integration and Optimization for Sustainability (Springer), Subject Editor for Trans IChemE Part B (Process Safety & Environmental Protection, Elsevier), editorial board members for Water Conservation Science and Engineering (Springer), and Chemical Engineering Transactions (Italian Association of Chemical Engineering). He is the winners of the Innovator of the Year Award 2009 of IChemE, Young Engineer Award 2010 of IEM, Outstanding Young Malaysian Award 2012 of Junior Chamber International (JCI), as well as the SCEJ (Society of Chemical Engineers, Japan) Award for Outstanding Asian Researcher and Engineer 2013, Vice-Chancellor's Achievement Award 2014 (University of Nottingham) and Top Research Scientist Malaysia 2016 (Academy of Science Malaysia).

Prof. Pichet Suebsaiprom, Ph.D.
Computer Control and Robotic Laboratory
Department of Computer Engineering, Faculty of Engineering at Kamphaeng Saen,
Kasetsart University Kamphaeng Saen Campus, Thailand.

Pichet Suebsaiprom was born in Thailand in 1975. He received a B.Eng. degree in control and instrumentation engineering from Mahanakorn University, Thailand, and an M. Eng. degree in control system and instrumentation from King Mongkut's University of Technology, Thonburi, Thailand, in 1997 and 2004, respectively. He received the Ph.D. degree in electrical engineering from National Chung Hsing University, Taichung, Taiwan in 2016. Currently, he is a lecturer at Department of Computer Engineering, Faculty of Engineering at Kamphaeng Saen, Kasetsart University, Thailand. His research interests include linear and nonlinear control theory, robot modeling and control, and robust control design.