

2019 Y-KAST - YAS Bilateral Symposium

11 December 2019

The Royal Swedish Academy of Sciences, Stockholm, Sweden

Opening Ceremony	
13:00 - 13:20	Opening Remarks Jung Han Yoon (Chair, Y-KAST)
	Welcoming Remarks Magnus Jonsson (Chair, YAS)
	Congratulatory Remarks Jeong-kyu Lee (Ambassador, the Republic of Korea to the Kingdom of Sweden)
	Group Photo
Introduction of the respective academies	
13:20 - 13:50	Presentation about each academy
13:50 - 14:00	Break
Theme 1: Leadership in Academia and in Society	
14:00 - 14:50	Presentation and Discussion (10min for 1 speaker from each academy and 30min for discussion)
Theme 2: Beyond the Academy: Engaging our voices in policy making	
14:50 - 15:40	Presentation and Discussion (10min for 1 speaker from each academy and 30min for discussion)
15:40 - 16:00	Break
Theme 3: Achieving SDGs in my fields	
16:00 - 17:00	Presentation and Discussion (5min for 1 speaker from each academy)
17:00 - 17:10	Closing



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Jung Han Yoon
Chair, Y-KAST

Jung Han Yoon Park is a professor emeritus at Hallym University and is currently working at Seoul National University. Her research interests are the role of high-fat diet and bioactive components in the regulation of inflammation and the proliferation, apoptosis and metastatic potential of various cancers. She worked as the editor-in-chief of Journal of Medicinal Food and served on the editorial board of the British Journal of Nutrition and Nutrition Research. She was an elected fellow of the Korean Academy of Science and Technology and of the National Academy of Medicine of Korea. She also assumed the presidency of the Korean Nutrition Society and Korean Society of Cancer Prevention.



Sungjoo Lee
Ajou University

Sungjoo Lee is currently a professor of Industrial Engineering at Ajou University, Suwon, Korea. Her research interests include innovation policy, technology roadmapping, and patent engineering. She has contributed extensively to the methodological development of patent analysis and also the identification of key emerging technologies at the sector level.



Sang Wook Lee
Ewha Womans University

Sang Wook Lee is a professor at physics department in Ewha Womans University. His research interests are physical property of low dimensional nanostructure based nano electronic and nano mechanical devices and their applications to future electronic and sensor systems. He has served as chair of Korean NEMS society, vice secretary of Korean Physical Society, and now he is working as executive editor of Current Applied Physics.



Ki Tae Nam
Seoul National University

Prof. Nam is currently a Professor at Seoul National University, Seoul, Korea. His research field of interest is bio-inspired nanomaterials (protein-like inorganic materials, peptide nanomaterials) and artificial photosynthesis (water oxidation, CO₂ reduction). Between 2007 and 2010, he spent three years at the Lawrence Berkeley National Lab as a Postdoctoral Fellow, working on the peptide mimetic materials. In 2010, he came back to the Seoul National University and now is a full professor in the Materials Science & Engineering Department. Recently in 2017, he was awarded as "Young Faculty Award (Presidential award)" from the Korean President. Also he has received various prestige awards such as "Ten major nanotechnologies in 2018" (Ministry of Science and ICT), in 2018, the Best National R&D Achievement (Ministry of Science, ICT and Future Planning) in 2017 and "Ten Leading Young Scientists" (Korean Academy of Science and Technology and YTN Science) in 2017.



Soo Young Kim
Korea University

Soo Young Kim is a professor in the department of Materials Science and Engineering in Korea University. He combined his experience about optoelectronic devices with two-dimensional materials so that his research is focused on the optimization of two-dimensional materials' properties and their application to energy devices, such as organic photovoltaics, perovskite solar cells, organic light emitting diodes, gas sensors, hydrogen evolution reaction, and CO₂ reduction.



Ho Won Jang
Seoul National University

He is an associate professor in the Department of Materials Science and Engineering of Seoul National University. His research topics include the synthesis of nanostructured materials and device fabrication for chemical sensors (e-nose and e-tongue), solar fuel generation, and nanoelectronics. He has published 260 papers in refereed journals.



Mi-hyun Kim
Gachon University

She is a professor in the College of Pharmacy, Gachon University and as a researcher, she is a navigator in 'chemical space', especially, in 'drug-like space'. She has studied the utilities of unprecedented drug scaffolds through molecular descriptors (representation)... She has provided professional advice with the Ministry of Food and Drug Safety (MFDS, formerly known as the Korea Food & Drug Administration or KFDA).



Magnus Jonsson
Chair, YAS
Linköping University

In Magnus' research group they explore nano-optical and organic photonic phenomena that take place at the nano scale, such as the special ability of gold nanoparticles to capture and focus light into extremely small areas, and their use in novel applications. Another of our basic research orientations is organic polymers that can conduct electricity, and the many fascinating opportunities they imply.



Anna T. Danielsson
Uppsala University

Anna's research is in science education. She has primarily focused questions regarding identity, gender, and power in relation to the teaching and learning of science, in particular in the context of higher education.



Stefan Engblom
Uppsala University

Stefan's area of research is scientific computing, a multidisciplinary field in which the use of computational models to capture and understand various aspects of reality is investigated. Also studied is how to implement methods efficiently and how to handle experimental data.



Philippe Tassin
Chalmers
University of Technology

Philippe's research group is active in nanophotonics, a subfield of physics studying how light can be controlled and manipulated with electromagnetic structured materials. Light and electromagnetic waves are of paramount importance to our modern society, for the internet, smartphones, TV screens, etc. But further progress of optics technology is limited by the availability of natural optical materials.



Johan Rockberg
Royal Institute of
Technology

The goal of Johan's research is to develop new biological drugs and ways to produce them at large scale so that they can become available to patients with diseases without adequate treatment today. In Johan's area of antibody technology and targeted evolution, he develops and searches in libraries of tens of billions of different protein molecules for those that enable a specific interaction with a disease cell to achieve the desired effect.



Christian Ohm
Royal Institute of
Technology

Particle physics researchers strive to explain the smallest constituents of matter that build up our universe, and their interactions. They have an incredibly successful theory, called the Standard Model, which explains with incredible precision how everything around us is built up of neutrons and protons formed from quarks, and electrons. But despite its success, the model only explains about 15 % of all matter in the universe. The rest is made up of a mysterious dark matter which we still know very little about, except that its gravitational pull played a crucial role in the early evolution of the universe, and today holds together our galaxies. Christian's research concerns trying to find new particles that could make up this dark matter.