

2019 NCKU-Purdue Joint Workshop on Chemical Engineering

December 16, 2019 (Monday)

Time	Program
13:30–14:00	Registration
Place: Creative Lecture Hall (4F), Chemical Engineering Building, NCKU, Tainan, TAIWAN	
14:00–14:10	Opening Remarks
Chairpersons: Professor Chien-Hsiang Chang and Professor Chuei-Tin Chang	
14:10–14:30	Sangtae Kim Overview of chemical engineering program at Purdue University
14:30–14:50	Bing-Hung Chen Hydrotreatment of fatty acids over zeolite-supported nickel catalysts for liquid alkane fuels
14:50–15:10	Su-Wen Hsu Plasmonic nanomaterials and nanocomposites
15:10–15:30	Wei Wu Applying process systems engineering (PSE) in AI-based power dispatching problems
15:30–16:00	Coffee Break
Chairpersons: Professor Dong-Hwang Chen and Professor Hsien-Hung Wei	
16:00–16:20	Vivek Narsimhan Dynamics and deformation of complex interfaces – study of vesicles, cells, and droplets in biology
16:20–16:40	Chi-Cheng Chiu Molecular insights into the phase, mechanical, and dynamic properties of biomimetic ion pair amphiphile bilayers
16:40–17:00	Mei-Jywan Syu Surface modified superparamagnetic iron oxide nanoparticles for the specific binding of human serum albumin
18:00–20:00	Banquet

December 17, 2019 (Tuesday)

Time	Program	
Place: Creative Lecture Hall (4F), Chemical Engineering Building, NCKU, Tainan, TAIWAN		
Chairpersons: Professor Jeng-Shiung Jan and Professor Wen-Chung Wu		
9:00–9:20	John Morgan Deciphering the biological and physical mechanisms involved in plant volatile emissions	
9:20–9:40	I-Son Ng Genome editing by CRISPR system in microalgae	
9:40–10:00	Sheng-Sheng Yu An engineering approach for sustainable peptide synthesis	
10:00–10:30	Coffee Break	
Chairpersons: Professor Yu-Chuan Lin and Professor Chia-Yu Lin		
10:30–10:50	Letian Dou Molecular engineering of two-dimensional organic-inorganic hybrid perovskites	
10:50–11:10	Chung-Wei Kung Conductive metal-organic framework-based materials for electroanalysis and energy storage	
11:10–11:30	Jih-Jen Wu Nanostructured heterojunction arrays for solar energy conversion	
11:30–11:50	Hsisheng Teng Photocatalytic reforming of biomass into H ₂ over graphene dots	
11:50–12:00	Closing Remarks	
12:00–13:00	Lunch	



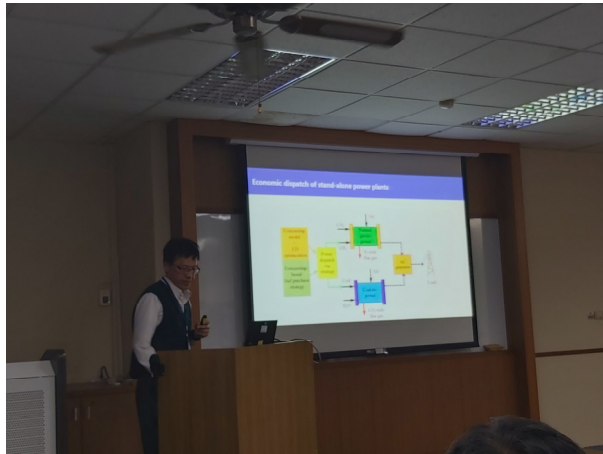
普渡大學 Sangtae Kim 教授演講



本系 Bing-Hung Chen(陳炳宏)教授演講



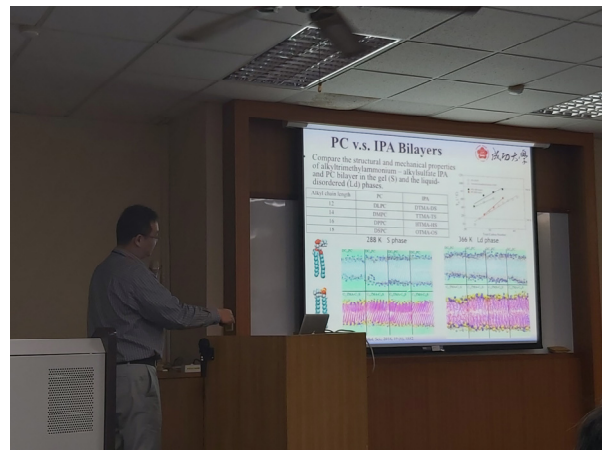
本系 Su-Wen Hsu (許蘇文)教授演講



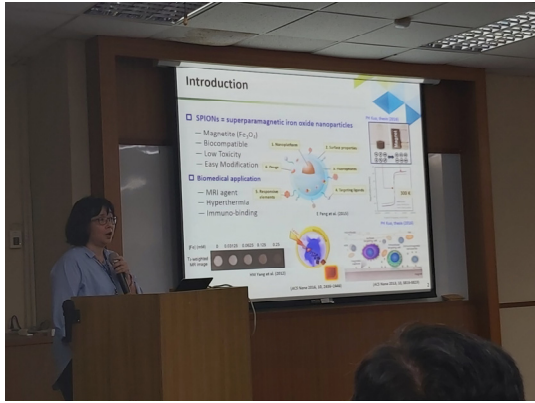
本系 Wei Wu (吳煒)教授演講



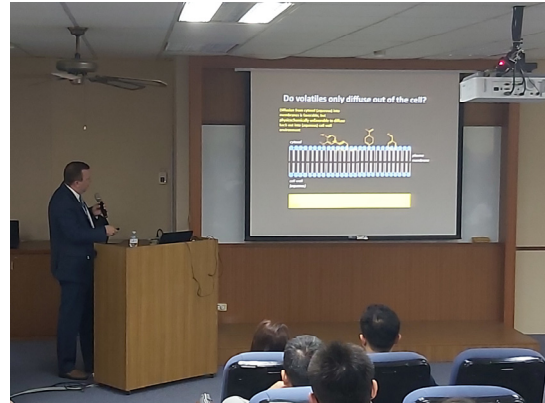
普渡大學 Vivek Narsimhan 教授演講



本系 Chi-Cheng Chiu (邱繼正)教授演講



本系 Mei-Jywan Syu (許梅娟)教授演講



普渡大學 John Morgan 教授演講



本系 I-Son Ng (吳意珣)教授演講



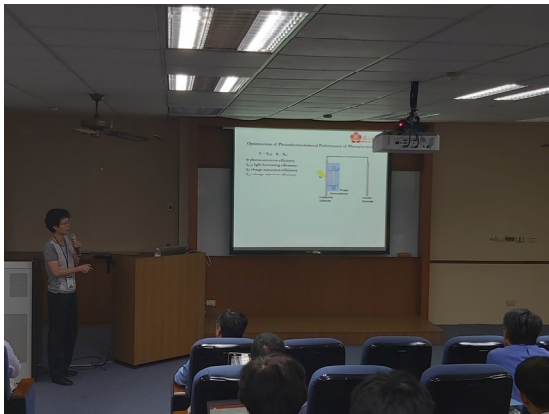
本系 Sheng-Sheng Yu (游聲盛)教授演講



普渡大學 Letian Dou 教授演講



本系 Chung-Wei Kung (龔仲偉)教授演講



本系 Jih-Jen Wu (吳季珍)教授演講



本系 Hsisheng Teng (鄧熙聖)教授演講



晚宴合照