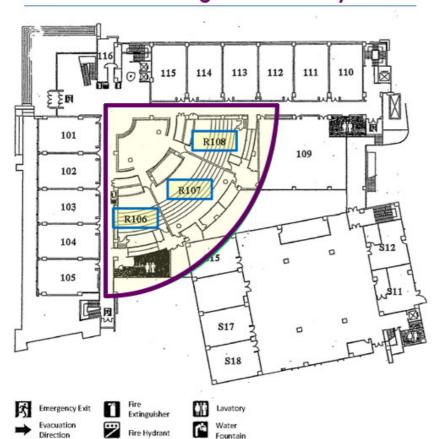
APEnergy2016 Agenada

National Tsing Hua University Map and Conference Floor Plan

National Tsing Hua University



Engineering Building I, 1st Floor National Tsing Hua University



R107: Conference Room

R108: Powerpoint Preparation Room

Shuttle Bus Service

The shuttle service schedule between the conference site and the hotels is as below:

	The Shuttle Service Schedule (20160905~20160908)						
date	Inbound	Outbound					
9/5 (Mon)	7:40- Howard Hotel Hsinchu 8:00- Ambassador Hsinchu → Engineering Building l	18:00 - Engineering Building l → Howard Hotel Hsinchu & Ambassador Hsinchu					
9/6 (Tue)	7:40- Howard Hotel Hsinchu 8:00- Ambassador Hsinchu → Engineering Building l	20:30- The Peng's Agora Garden → Howard Hotel Hsinchu & Ambassador Hsinchu					
9/7 (Wed)	7:40- Howard Hotel Hsinchu 8:00- Ambassador Hsinchu → Engineering Building l	17:30 - Engineering Building l → Howard Hotel Hsinchu & Ambassador Hsinchu					
9/8 (Thu)	8:40- Howard Hotel Hsinchu 9:00- Ambassador Hsinchu → Engineering Building l	17:00 - Engineering Building l → Howard Hotel Hsinchu & Ambassador Hsinchu					

Free WiFi at EB1

Name: NTHU-PME-guest

PW: cfd606

Scientific Program

Sunday 20160904 Engineering Building 1 (EB1)

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Time	Subject	Chairperson
14:00-17:00	Reception & Registration	
17:00-18:00	Welcome Party (cocktail and juice) at 1 st Floor Lobby	Prof. Che-Wun Hong

Monday 20160905 Location: EB1 R107

Monday	20160905	Loc	ation: EB1 R107		
Time	Subject	Presenter	Presentation Title	Chairperson	
08:00-17:00	Reception	& Registration			
08:30-08:40	Opening A	ddress by Vice President for R&	D of NTHU: Prof. J. Raynien Kwo	C.W. Hong	
08:40-09:30	Plenary PL-001	Dr. Yoshio Nishi SONY	The Road Taken by Lithium Ion Secondary Batteries. And What Lies Ahead?	Prof.	
09:30-10:00	Keynote KY-002	Prof. Shih-Yuan Lu National Tsing Hua University	Mesoporous Carbon based Electrode Materials for Supercapacitors	Chen-Chi Ma NTHU	
10:00-10:30	Keynote KY-013	Prof. Parasuraman Selvam Indian Institute of Technology-Madras	Ordered Nano- and Nanoporous materials for Energy Conversion and Storage	Taiwan	
10:30-10:50			Tea Break		
10:50-11:20	Keynote KY-012	Prof. Jingyuan Chen University of Fukui	Salt-free Electrolysis	Prof.	
11:20-11:50	Keynote KY-007	Dr. Aaron T. Marshall University of Canterbury	Electrocatalytic Oxygen Evolution at Nickel Oxy-Hydroxide Anodes	Chi-Chang Hu	
11:50-12:20	Keynote KY-027	Prof. Kwong-Yu Chan University of Hong Kong	Colloidal Solution Combustion for Scalable Synthesis of Nanostructures with Porosity Control for Energy Conversion	NTHU Taiwan	
12:20-13:30		Lunc	ch (2 nd Floor Lobby)		
13:30-13:50	Invited O1-005	Jun Song Chen National University of Singapore	Self-supported Ni-based nanostructures on nickel foam with enhanced pseudocapacitive properties		
13:50-14:10	Invited O7-013	Yi-Shiou Chen Institute of Nuclear Energy Research	Post-Annealing Effect on a-Si:H Passivation Layer for Silicon Heterojunction Solar Cells	Prof.	
14:10-14:30	Invited O24-007	Caiyan Qin Korea Advanced Institute of Science and Technology	Optimization of a volumetric solar collector with plasmonic nanofluids	Pang-Chieh Sui UVIC Canada	
14:30-14:50	Invited O4-006	Sivasankaran Harish Kyushu University	Enhanced Melting of Phase Change Nano Composites in Latent Heat Thermal Storage Systems		
14:50-15:10	Invited O1-003	Shulei Chou University of Wollongong	Low Cost Materials for High Energy Sodium-ion Battery		
15:10-15:30			Tea Break		
15:30-16:00	Keynote KY-022	Prof. Pang-Chieh Sui University of Victoria Wuhan University of Technology	PEMFC Modeling and Simulation: Perspectives and Outlook	Prof. George Zhao UQ Australia	

16:00-16:30	Keynote KY-009	Prof. Kan-Lin Hsueh National United University	Recent Development of a Novel Vanadium Redox Flow Battery
16:30-17:00	Keynote KY-011	Dr. Chang-Chung Yang Industrial Technology Research Institute	A Perspective on Aluminum-ion Batteries
17:00-17:30	Keynote KY-020	Dr. Chin-Hsien Cheng Asia Pacific Fuel Cell Tech Ltd	Current Status of Hydrogen Scooter Development in Taiwan

18:00-19:30 Committee Meeting (with dinner) at EB1 R301 ← Committee Members

Monday 20160905 Location: EB1 Exhibition Area

Monday	20160905			
Time	Subject	Presenter	Presentation Title	Chairperson
08:00-17:00	Reception & R	Registration		
08:30-08:40	Opening Addr	ess		
	Poster P15-044	Shun-Chang Chang Da-Yeh University (10:30-10:50)	Nonlinear Dynamics and Control in a Permanent Magnet Synchronous Motor for Electric Vehicles	
	Poster P9-022	B. C. Chen Hwa Hsia University of Technology (10:30-10:50)	Temperature for Lithium-Ion Electrodes of Carbon Nanospheres during Charging	
	Poster P10-023	Cian Tong Lu National United University (10:30-10:50)	Reduction of Electrode Overpotential of Oxygen Evolution Reaction by Tin Whisker Growth	
	Poster P4-082	Yi-Chia Cheng National Tsing Hua University (12:20-13:30)	First Principles Molecular Dynamics Simulation of High Temperature Electrolytes and FEM Analysis on Thermal Batteries	Prof. Yu-Bin Chen NTHU Taiwan
08:40-17:30	Poster P3-027	Ying-Yu Huang National Taipei University of Technology (12:20-13:30)	Highly Efficient Cobalt Oxide Supercapacitor Electrode: Effects of the Structure on the Electroactive Capability	
	Poster P3-028	Lu-Ying Lin National Taipei University of Technology (12:20-13:30)	Effects of the Shell Material at the Nickel Cobalt Oxide Core on the Supercapacitor Electrode Performance	
	Poster P8-029	Hong-Syun Lin National Taipei University of Technology (12:20-13:30)	Application of MoS2 and Reduced Graphene Oxide Composite as the Catalyst for the Hydrogen Evolution	
	Poster S	Masatsugu Fujishige Shinshu University (12:20-13:30)	Carbonized material from Bamboo cellulose fiber solutions	
	Poster P8-031	Jia-Yo Hong National Taipei University of Technology (12:20-13:30)	Efficient Photoelectrochemical Water Oxidation Using the TiO2/Reduce Graphene Oxide/Sb2S3 Heterojunction	

Poster	Hong-Qin Chen National Taipei University of Technology (15:10-15:30)	Studying the Function of TiO2 in the Light-Assisted Pyrrole Electropolymerization for Supercapacitors	
POSTAL	Kenji Takeuchi Shinshu University (15:10-15:30)	Bio-nanocarbon from NaOH-activation of polysaccharides for high performance electric double layer capacitor	
Poster	Yonghyun Kwon Korea Advanced Institute of Science and Technology (KAIST) (15:10-15:30)	N-doped zeolite-templated carbon as a metal-free electrocatalyst for oxygen reduction	
Poster P6-021	Zucheng Wu Zhejiang University (15:10-15:30)	Optimization of Mass Transfer Condition to Improve the Performance of Direct Urea Fuel Cell	

All the poster presenters are asked to show up in front of your poster to present to the reviewers in 5 min according to the blue time for the Best Poster Award Competition.

Tuesday 20160906 Location: EB1 R107

Time	Subject	Presenter	Presentation Title	Chairperson			
08:00-17:00	Reception &	Reception & Registration					
08:40-09:30	Plenary PL-002	Prof. George Zhao University of Queensland Australia	Graphene-Based Composite Electrode Materials for Electrochemical Energy Storage				
09:30-10:00	Keynote KY-004	Prof. Chi-Chang Hu National Tsing Hua University	Development of Electrode Materials of Aqueous Asymmetric Supercapacitors: Nickel-Cobalt-Based Oxyhydroxides	Prof. Shih-Yuan Lu NTHU Taiwan			
10:00-10:30	Keynote KY-026	Prof. Hsin-Jay Wu National Sun-Yat Sen University	Engineering Cubic AgSbTe2-based and Chalcopyrite CuGaTe2-based thermoelectric materials: their high zT values, microstructures and related phase equilibria				
10:30-10:50			Tea Break				
10:50-11:20	Keynote KY-015	Prof. Hsing-Yu Tuan National Tsing Hua University	Scalable Nanomaterials for Energy-based Applications				
11:20-11:50	Keynote KY-017	Prof. Fan-Gang Tseng National Tsing Hua University	Low-Temperature and High-Performance Micro Methanol-Reforming-Type Phosphorus-Acid Fuel Cells	Prof. Parasuraman Selvam IIT India			
11:50-12:20	Keynote KY-025	Prof. Shinichi Komaba Tokyo University of Science	Materials Chemistry of Rechargeable Li-, Na-, and K-Ion Batteries				
12:20-13:30	Lunch (2 nd Floor Lobby)						
13:30-13:50	Invited O13-025	Sourav Khan Indian Institute of Technology-Madras	Structural and Magnetic Properties of Ordered Mesoporous LiMPO4 (M = Fe or Mn)/Carbon Composites				
13:50-14:10	Invited O3-014	Dongfang Yang The University of Queensland	Synthesis of Spherical NiCo2O4 as Anode for Sodium-Ion Capacitors	Prof. Kan-Lin Hsueh			

14:10-14:30	Invited O7-015	Lin Yang National Tsing Hua University	Efficient Perovskite Solar Cells Fabricated by Non-Halide Lead Precursors	NUU Taiwan
14:30-14:50	Invited O3-020	Kai-Hsuan Hung China Steel Corporation	The Development of the Electrode Materials of Activated Carbon for Electrical Double-layer Capacitors	
14:50-15:10	Invited O12-057	Chun-Ting Liu National Tsing Hua University	Photoelectrochemical Biofuel Cells for Electricity Generation and Hydrogen Production	
15:10-15:30			Tea Break	
15:30-16:00	Keynote KY-028	Prof. Pooi See Lee Nanyang Technological Univ.	Flexible and Multifunctional Integrated Supercapacitor Electrodes	
16:00-16:30	Keynote KY-021	Prof. Hsiang-Yu Wang National Tsing Hua University	Rapid Analysis for Advancing the Production of Bioenergy Using Microfluidic and Optical Techniques	Dr. Aaron T. Marshall
16:30-17:00	Keynote KY-018	Prof. Yung-Chun Wu National Tsing Hua University	Solar Cell Energy System and Applications	UCanterbury New Zealand
17:00-17:30	Keynote KY-024	Prof. Morinobu Endo Shinshu University	Nanostructured Carbons for Advanced Energy Devices	
17:45	Group Photo	in front of EB1 and Lobby		

18:00-20:00 Banquet at the Peng's Agora Garden

Tuesday 20160906 Location: EB1 Exhibition Area

Time	Subject	Presenter	Presentation Title	Chairperson
08:00-17:00	Reception &			
	Poster P3-036	He-Xin Lai National Taipei University of Technology (10:30-10:50)	Synthesizing NiCo2S4 Nanosheet for Supercapacitors Using Thiourea as Structure-Directing Agent and Sulfur Source	
08:40-17:00	Poster P3-039	Yong Xiang Zhang National Taipei University of Technology (10:30-10:50)	Application of Polypyrrole as the Electroactive Material on the Supercapacitor Electrode	Prof. Ming-Chang Lu
	Poster P24-040	Zhen-Sheng Hu National Formosa University (10:30-10:50)	Spectral properties and thermal stability of CrN/CrON/Al2O3 spectrally selective coating	NCTU Taiwan
	Poster P11-043	Ruey-Chi Wang National University of Kaohsiung (12:20-13:30)	Synthesis and enhanced supercapacitor performance of Cu/RGO nanocomposites	

Poster P10-016	Ling Huang Xiamen University (12:20-13:30)	Unravelling Mutual Impact between Inner-Lattice Variables and Li-ion Diffusion of LiNi0.54Co0.23Mn0.23O2 under High-Voltage Charging by A Coupled In-Situ Measurement
Poster P10-047	Jarrn-Horng Lin National University of Tainan (12:20-13:30)	Conductive Carbon Additives of Cathode for Lithium-ion Battery
Poster P3-033	Zih-Hao Yeh National Taipei University of Technology (12:20-13:30)	Effect of the pH Value for Synthesizing Nickel Cobalt Sulfides as the Electrode Material
Poster P3-034	Yu-Shiang Chen National Taipei University of Technology (12:20-13:30)	Highly Efficient Supercapacitor Electrode with 2D WS2 and Reduced Graphene Oxide Hybrid Nanosheets
Poster P10-051	Irish Valerie B. Maggay Chung Yuan Christian University (12:20-13:30)	Electrochemical properties of spinel-based anode materials for Li-ion batteries
Poster P3-053	Hung-Ta Lu Chung Yuan Christian University (15:10-15:30)	Synthesis and characterization of F-doped Na3V2(PO4)3 as cathode materials for sodium-ion batteries
Poster P3-026	Bing-Chang Xiao National Taipei University of Technology (15:10-15:30)	Improving the Electrochemical Performance for the MoS2/Polypyrrole-Based Supercapacitor Electrode
Poster P3-030	Wei-Lun Hong National Taipei University of Technology (15:10-15:30)	Application of the Novel Multiple-Dimensional Cobalt Oxide as the Electroactive Material for Supercapacitors
Poster P6-019	Zheng Fan Zhejiang University (15:10-15:30)	Mechanistic study of urea electro-oxidation on Ni catalyst by using surface enhanced Raman spectroscopy

All the poster presenters are asked to show up in front of your poster to present to the reviewers in 5 min according to the blue time for the Best Poster Award Competition.

Wednesday 20160907 Location: EB1 R107

wednesday	20100907 Eocation. EBT K107				
Time	Subject	Presenter	Presentation Title	Chairperson	
08:00-17:00	Reception & Registration				
08:40-09:30	Plenary	Dr. Alex Y. M. Peng Industrial Technology Research Institute	From Innovation to Commercialization~ Advanced Energy Materials and Applications	Prof. Morinobu Endo Shinshu U Japan	

09:30-10:00	Keynote KY-001	Prof. Li Lu National University of Singapore	Design of Garnet-type Solid Electrolytes with Enhanced Conductivity	
10:00-10:30	Keynote KY-010	Prof. Tian-Shiang Yang National Cheng Kung University	Thermal Effects of Cell Irradiance Nonuniformity on the Conversion Efficiency of HCPV Modules and a Uniform-Irradiance Concentrator Design	
10:30-10:50			Tea Break	
10:50-11:20	Keynote KY-006	Prof. Yu-Bin Chen National Tsing Hua University	Development of Energy-Saving Glass Using Tailored Optical Responses of Nano-Structures	Prof.
11:20-11:50	Keynote KY-023	Prof. Bong Jae Lee Korea Advanced Institute of Science and Technology	Near-Field Thermal Radiation for Thermophotovoltaic Energy Conversion	Tian-Shiang Yang NCKU
11:50-12:20	Keynote KY-008	Prof. Ming-Chang Lu National Chiao Tung University	High and Tunable Thermal Conductivity of Amorphous Polymer Nanofibers	Taiwan
12:20-13:30		Lunch	n (2 nd Floor Lobby)	
13:30-13:50	Invited O10-011	Yutaka Moritomo University of Tsukuba	Metal-hexacyanoferrate as secondary battery material	
13:50-14:10	Invited O4-041	Xian-Hong Chen National Chung-Hsing University	Recovery of waste heat in radiator with phase change material to produce hot water for recreational vehicle	
14:10-14:30	Invited O7-006	Lu-Lin Li National United University	Electrodeposition of Counter Electrode Materials for Dye-Sensitized Solar Cells	Prof. Bong Jae Lee KAIST
14:30-14:50	Invited O4-042	Hao-Ting Huang National Tsing Hua University	Influence of Magnetic Domain Walls and Magnetic Field on the Thermal Conductivity of Magnetic Nanowires	Korea
14:50-15:20	Keynote KY-030	Prof. Ming-Tsang Lee National Chung-Hsing Univ	Photo-thermal Energy Conversion Enhancement and Utilizations Using Nanomaterials	
15:20-15:40			Tea Break	
15:40-16:10	Keynote KY-029	James H Wang Industrial Technology Research Institute	The System Impact and Implementation of Green Vehicles	
16:10-16:40	Keynote KY-019	Prof. Yi-Hsuan Hung National Taiwan Normal Univ.	Innovative Designs and Energy Management for Green-Energy Vehicles	Prof. Li Lu NUS Singapore
16:40-17:00	Closing Ceremony (+Awards)	Prof. Che-Wun Hong General Chairman	Summary of APEnergy2016 Best Oral & Poster Presentation Awards	

Thursday 20160908

Time	Subject		Chairperson
09:2012:00	ITRI Technical Visit	Report at EB1 Receiption on 9:00 AM	Prof. Yi-Hsuan Hung
	Hsinchu County Culture	Report at EB1 Receiption on 12:30	
12:4517:00	Tour	PM	Prof. Yu-Bin Chen

Best Poster Paper Award Judges

Prof. Yu-Bin Chen [*] (PME, NTHU. Taiwan) ← Chair		
ybchen@pme.nthu.edu.tw_		
Prof. Shinichi Komaba (Applied Chemistry, Tokyo University of Science, Japan)		
komaba@rs.kagu.tus.ac.jp		
Prof. Bong Jae Lee (ME, KAIST, Korea)		
bongjae.lee@kaist.ac.kr		
Prof. Ming-Tsang Lee (ME, NCHU, Taiwan)		
mtlee@nchu.edu.tw		
Prof. Pooi See Lee (Materials, NTU, Singapore)		
pslee@ntu.edu.sg		

Best Oral Paper Award Judges

Prof. Ming-Chang Lu* (ME, NCTU, Taiwan) ← Chair			
mclu@mail.nctu.edu.tw_			
Prof. Jingyuan Chen (Applied Physics, University of Fukui, Japan)			
jchen@u-fukui.ac.jp			
Prof. Aaron T. Marshall (ChE, University of Canterbury, New Zealand)			
aaron.marshall@canterbury.ac.nz			
Prof. Yung-Chun Wu (ESS, NTHU, Taiwan)			
ycwu@ess.nthu.edu.tw			
Prof. Kan-Lin Hsueh (ChE, NUU, Taiwan)			
kanlinhsueh@nuu.edu.tw			