	FRIDAY, DECEMBER 18, 2015		
	08.227-1A. Carbon Nanotubes: Preparation, Characterization and Applications (#227) [1A]		
Shigeo Maruyama	(The University of Tokyo) & Jie Liu (Duke University)		
	8:00 AM - 12:00 PM; 315 (Hawaii Convention Center)		
8:00 AM - 8:30 AM	State-of-the-art science and applications of carbon nanotubes  Morinobu Endo; Hiroyuki Muramatsu; Kenji Takeuchi; Takuya Hayashi		
	How we can realize chirality-specific growth of single-walled carbon nanotubes using		
8:30 AM - 9:00 AM	intermetallic compound nanocatalysts		
	Yan Li		
9:00 AM - 9:30 AM	Towards selective synthesis and applications of carbon nanotubes		
0.00 7 HVI	Avetik R. Harutyunyan		
0.20 AM 0.50 AM	Quantum chemical simulations of SWCNT and graphene nucleation with and without		
9:30 AM - 9:50 AM	catalysts  Alister Page		
9:50 AM - 10:10 AM	break		
	Perfect Ultra-Long Carbon Nanotube and Its Application		
10:10 AM - 10:40 AM	Fei Wei		
	A sweet spot in the synthesis of single wall carbon nanotube forests and its relation to		
10:40 AM - 11:10 AM	their properties		
	<b>Don N. Futaba</b> Modulating diameter of single-walled carbon nanotubes in alcohol catalytic chemical vapor		
	deposition		
11:10 AM - 11:30 AM	Rong Xiang; Kehang Cui; Akihito Kumamoto; Hua An; Taiki Inoue; Shohei Chiashi;		
	Yuichi Ikuhara; Shigeo Maruyama		
11:30 AM - 12:00 PM	Controllable growth of semiconducting and metallic SWCNTs		
00 007 0D Carbon	Peng-Xiang Hou; Chang Liu; Hui-Ming Cheng		
	Nanotubes: Preparation, Characterization and Applications (#227) [2P] (Rice University) & Shigeo Maruyama (The University of Tokyo)		
N. Diuce Weisiliali	1:00 PM - 5:00 PM; 315 (Hawaii Convention Center)		
	Resolution of carbon nanotube enantiomers by DNA and chiral surfactants: common		
1:00 PM - 1:30 PM	mechanism revealed		
	Ming Zheng		
4.20 DM 2.00 DM	Fluidized-bed production of sub-millimeter-long carbon nanotubes and their application to		
1:30 PM - 2:00 PM	electrochemical energy storage devices  Suguru Noda		
	Chemically Modified Carbon Nanotubes & Graphene: Synthesis, Assembly & Applications		
2:00 PM - 2:30 PM	Sang Ouk Kim		
2:30 PM - 3:00 PM	Improved photovoltaic performance of carbon nanotube-based solar cells		
	Kazunari Matsuda		
3:00 PM - 3:20 PM	break		
3:20 PM - 3:50 PM	Large scale sorting of single-chirality single-wall carbon nanotubes  Hiromichi Kataura; Yohei Yomogida; Xiaojun Wei; Takeshi Tanaka		
	Environmental TEM, low-voltage SEM, and optical imaging of carbon nanotubes		
3:50 PM - 4:20 PM	Kaili Jiang		
4:00 DM 4:50 DM	Growth of High-Density Horizontally Aligned SWNT Arrays using Trojan Catalysts		
4:20 PM - 4:50 PM	JIN ZHANG		
	Nanotubes: Preparation, Characterization and Applications (#227) [6E]		
Ming Zheng (Nation	nal Institute of Standards and Technology) & Shigeo Maruyama (The University of Tokyo)		
	7:00 PM - 9:00 PM; 315 (Hawaii Convention Center)  Carbon nanotube thin-film static random access memory		
7:00 PM - 7:30 PM	Mark C. Hersam		
	Scalable assembly and alignment of semiconducting carbon nanotube arrays for high		
7:30 PM - 7:50 PM	performance field effect transistors		
	Gerald Brady; Harold Evensen; Yonghoo Joo; Alan Albrecht; Matthew Shea; Padma		
	Gopalan; Michael S. Arnold		
7:50 PM - 8:20 PM	Single-walled carbon nanotubes and graphene as hole transport layer and electrode for solar cells		
7.50 FIVI - 0.20 FIVI	Shigeo Maruyama		
	engo marayama		

## SATURDAY, DECEMBER 19, 2015

## 08.227-3A. Carbon Nanotubes: Preparation, Characterization and Applications (#227) [3A]

JIN ZHANG (Peking University ) & Shigeo Maruyama (The University of Tokyo)

8.00 AM -	12:00 PM	. 315	(Hawaii	Convention	Center)
O.UU AIVI -	12.00 F W	, טוט	(i iawaii	CONVENIGOR	Center

8:00 AM - 8:30 AM	Riichiro Saito
8:30 AM - 9:00 AM	Metrology of nanotube metallicity, its evolution, and the range of the Kataura plot <b>Paul Finnie</b>

9:00 AM - 9:30 AM Emergent optical phenomena in carbon nanotubes

Yuhei Miyauchi

Asymmetry in Resonant Raman Excitation Profiles of Carbon Nanotubes: The Role of State-Mixing

9:30 AM - 9:50 AM

**Erik H. Hároz**; Hagen Telg; Eduardo B. Barros; Jeffrey A. Fagan; Geyou Ao; Ming Zheng; Jeffrey blackburn; Stephen K. Doorn

9:50 AM - 10:10 AM break

Photon statistics and materials development towards single-photon emitters based on

10:10 AM - 10:40 AM doped single-wall carbon nanotubes

Stephen K. Doorn; Xuedan Ma; Nicolai F. Hartmann; Sibel Yalcin; Han Htoon
Optics and photonics with macroscopically aligned carbon nanotubes

10:40 AM - 11:10 AM

Junichiro Kono

Preparation, measurement, and fractionation of monodisperse single wall carbon

11:10 AM - 11:30 AM nanotubes

Philip J. Wyatt

11:30 AM - 12:00 PM Variance spectroscopy of single-walled carbon nanotube samples

R. Bruce Weisman; Jason Streit; Sergei Bachilo; Stephen Sanchez

Nanotubes: Preparation, Characterization and Applications (#227) [4P]

## 08.227-4P. Carbon Nanotubes: Preparation, Characterization and Applications (#227) [4P]

Young Hee Lee (Sungkyunkwan University/Institute for Basic Science) & Shigeo Maruyama (The University of Tokyo)

1:00 PM - 5:00 PM; 315 (Hawaii Convention Center)

1:00 PM - 1:30 PM	Purification of horizontally aligned arrays of single walled carbon nanotubes  John Rogers
1:30 PM - 2:00 PM	Exploring the growth of graphene and related 2D materials for electronic applications <i>Hiroki Ago</i>
2:00 PM - 2:30 PM	Bio-electronics applications of carbon nanotube thin films <b>Yutaka Ohno</b>
2:30 PM - 3:00 PM	Carbon Nanotube Electronics – More and More than Moore  Lian-Mao Peng; Zhiyong Zhang; Sheng Wang; Xuelei Liang
3:00 PM - 3:20 PM	break
3:20 PM - 3:50 PM	Interaction of water molecules with single-walled carbon nanotube <b>Yoshikazu Homma</b> ; Shohei Chiashi; Takahiro Yamamoto
3:50 PM - 4:20 PM	Carbon Nanotube-based Remarkably Durable Polymer Electrolyte Fuel Cell Naotoshi Nakashima; Inas Hafez; Mohamed Berber; Tsuyohiko Fujigaya
4:20 PM - 4:50 PM	Floating catalyst CVD synthesis of SWNTs for thin film applications <b>Esko I. Kauppinen</b>

## 08.227-7E. Carbon Nanotubes: Preparation, Characterization and Applications (#227) [7E]

**Hui-Ming Cheng** (Institute of Metal Research, Chinese Academy of Sciences) & Shigeo Maruyama (The University of Tokyo)

7:00 PM - 9:00 PM; 315 (Hawaii Convention Center)

7:00 PM - 7:30 PM	Selective Growth of Semiconducting Single-walled Carbon Nanotubes  Jinghua Li; Pan Li`; <b>Jie Liu</b>
7:30 PM - 7:50 PM	Development of n-type carbon nanotubes for thermoelectric materials  **Tsuyohiko Fujigaya*; Naotoshi Nakashima; Takahiro Fukumaru; Huang Wenxin
7:50 PM - 8:20 PM	Carbon nanotubes for energy storage  Young Hee Lee

SUNDAY, DECEMBER 20, 2015		
08.227-5A. Carbon Nanotubes: Preparation, Characterization and Applications (#227) [5A]		
Jie Liu (Duke University) & Shigeo Maruyama (The University of Tokyo)		
	8:00 AM - 12:00 PM; 315 (Hawaii Convention Center)	
8:00 AM - 8:30 AM	Carbon Nanomaterials for Biological and Energy Applications  Hongjie Dai	
8:30 AM - 9:00 AM	Potential bioapplication of carbon nanohorns  Masako Yudasaka	
	Advanced carbon-based nanotubes/nanocages for energy conversion and storage:	
9:00 AM - 9:30 AM	synthesis, performance and mechanism	
	Zheng Hu	
	Semiconducting SWCNT: Materials, inks and printed thin film transistors	
	Patrick R. Malenfant; jianfu Ding; Zhao Li; Jacques Lefebvre; Fuyong Cheng; Christa	
9:30 AM - 9:50 AM	Homenick; Jeff Dunford; Naiying Du; Jianying Ouyang; Gregory Lopinski; Robert James;	
	Christopher T. Kingston; Benoit Simard; Jefford Humes; Jens Kroeger; Wookyu Lee;	
	Junfeng Sun; Gyoujin Cho	
9:50 AM - 10:10 AM	break	
10:10 AM - 10:40 AM	Dry-processable carbon nanotubes for functional devices and composites	
10.107W 10.70 AW	Jiangtao Di; Yuntian . Zhu; <b>Qingwen Li</b>	
10:40 AM - 11:10 AM	Toughness of Carbon Nanotube and Graphene Hybrid Fibers	
10.107W 11.10 AW	Seon Jeong Kim	
	Industrialization of boron nitride nanotubes: synthesis, chemistry, assemblies and	
	composites	
11:10 AM - 11:30 AM	Benoit Simard; Keun Su Kim; Christopher T. Kingston; Michael J. Jakubinek; Christa	
	Homenick; Yadienka Martinez-Rubi; Homin Shin; Behnam Ashrafi; Jingwen Guan;	
	Shuqiong Lin; Stephane Denommee; Robyn lannitto; Steven Walker; Malgosia	
	Daroszewska; Mark Plunkett	
11:30 AM - 12:00 PM	Carbon nanotube-silver hybrid architecture for stretchable composites and fibers	
	Seunghyun Baik	