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	
0.00 AW - 0.00 AW	Morinobu Endo ; HIroyuki Muramatsu; Kenji Takeuchi; Takuya Hayashi	
8:30 AM - 9:00 AM	How we can realize chirality-specific growth of single-walled carbon nanotubes using	
	intermetallic compound nanocatalysts	
	Yan Li	
9:00 AM - 9:30 AM	Towards selective synthesis and applications of carbon nanotubes	
	Avetik R. Harutyunyan	
	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	
	Don N. Futaba	
	Modulating diameter of single-walled carbon nanotubes in alcohol catalytic chemical vapor	
11.10 AM 11.20 AM	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	
	Peng-Xiang Hou; Chang Liu; Hui-Ming Cheng	
	Nanotubes: Preparation, Characterization and Applications (#227) [2P]	
R. Bruce Weisman	(Rice University) & Shigeo Maruyama (The University of Tokyo)	
	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	
	<i>Ming Zheng</i> Fluidized-bed production of sub-millimeter-long carbon nanotubes and their application to	
1:30 PM - 2:00 PM	electrochemical energy storage devices	
1.501 W - 2.001 W	Suguru Noda	
	Chemically Modified Carbon Nanotubes & Graphene: Synthesis, Assembly & Applications	
2:00 PM - 2:30 PM	Sang Ouk Kim	
	Improved photovoltaic performance of carbon nanotube-based solar cells	
2:30 PM - 3:00 PM	Kazunari Matsuda	
3:00 PM - 3:20 PM	break	
	Large scale sorting of single-chirality single-wall carbon nanotubes	
3:20 PM - 3:50 PM	Hiromichi Kataura; Yohei Yomogida; Xiaojun Wei; Takeshi Tanaka	
3:50 PM - 4:20 PM	Environmental TEM, low-voltage SEM, and optical imaging of carbon nanotubes	
	Kaili Jiang	
4:20 DM 4:50 DM	Growth of High-Density Horizontally Aligned SWNT Arrays using Trojan Catalysts	
4:20 PM - 4:50 PM	JIN ZHANG	
08.227-6E. Carbon 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)	
7:00 PM - 7:30 PM	Carbon nanotube thin-film static random access memory	
	Mark C. Hersam	
7:30 PM - 7:50 PM	Scalable assembly and alignment of semiconducting carbon nanotube arrays for high	
	performance field effect transistors Gerald Brady; Harold Evensen; Yonghoo Joo; Alan Albrecht; Matthew Shea; Padma	
	Gopalan; Michael S. Arnold Single-walled carbon nanotubes and graphene as hole transport layer and electrode for	
7:50 PM - 8:20 PM	solar cells	
	Shigeo Maruyama	

	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)
8:00 AM - 8:30 AM	Tip enhanced Raman spectroscopy of carbon nanotubes
	Riichiro Saito
	Metrology of nanotube metallicity, its evolution, and the range of the Kataura plot
8:30 AM - 9:00 AM	Paul Finnie
	Emergent optical phenomena in carbon nanotubes
9:00 AM - 9:30 AM	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
44-00 ANA 40-00 DM	Variance spectroscopy of single-walled carbon nanotube samples
11:30 AM - 12:00 PM	R. Bruce Weisman; Jason Streit; Sergei Bachilo; Stephen Sanchez
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
1:00 PM - 1:30 PM	John Rogers
	John Rogers
1.20 DM 2.00 DM	Exploring the growth of graphene and related 2D materials for electronic applications
1:30 PM - 2:00 PM	
	Exploring the growth of graphene and related 2D materials for electronic applications
1:30 PM - 2:00 PM 2:00 PM - 2:30 PM	Exploring the growth of graphene and related 2D materials for electronic applications <i>Hiroki Ago</i>
2:00 PM - 2:30 PM	Exploring the growth of graphene and related 2D materials for electronic applications <i>Hiroki Ago</i> Bio-electronics applications of carbon nanotube thin films
	Exploring the growth of graphene and related 2D materials for electronic applications <i>Hiroki Ago</i> Bio-electronics applications of carbon nanotube thin films <i>Yutaka Ohno</i>
2:00 PM - 2:30 PM	Exploring the growth of graphene and related 2D materials for electronic applications <i>Hiroki Ago</i> Bio-electronics applications of carbon nanotube thin films <i>Yutaka Ohno</i> Carbon Nanotube Electronics – More and More than Moore
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2:00 PM - 2:30 PM 2:30 PM - 3:00 PM 3:00 PM - 3:20 PM 3:20 PM - 3:50 PM 3:50 PM - 4:20 PM 4:20 PM - 4:50 PM 08.227-7E. Carbon I Hui-Ming Cheng (In University of Tokyo)	Exploring the growth of graphene and related 2D materials for electronic applications <i>Hiroki Ago</i> Bio-electronics applications of carbon nanotube thin films <i>Yutaka Ohno</i> Carbon Nanotube Electronics – More and More than Moore <i>Lian-Mao Peng</i> ; <i>Zhiyong Zhang</i> ; <i>Sheng Wang</i> ; <i>Xuelei Liang</i> break Interaction of water molecules with single-walled carbon nanotube <i>Yoshikazu Homma</i> ; <i>Shohei Chiashi</i> ; <i>Takahiro Yamamoto</i> Carbon Nanotube-based Remarkably Durable Polymer Electrolyte Fuel Cell <i>Naotoshi Nakashima</i> ; <i>Inas Hafez</i> ; <i>Mohamed Berber</i> ; <i>Tsuyohiko Fujigaya</i> Floating catalyst CVD synthesis of SWNTs for thin film applications <i>Esko I. Kauppinen</i> Nanotubes: Preparation, Characterization and Applications (#227) [7E] stitute of Metal Research, Chinese Academy of Sciences) & Shigeo Maruyama (The 7:00 PM - 9:00 PM; 315 (Hawaii Convention Center) Selective Growth of Semiconducting Single-walled Carbon Nanotubes <i>Jinghua Li</i> ; <i>Pan Li</i> '; <i>Jie Liu</i>
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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	
9:00 AM - 9:30 AM	Advanced carbon-based nanotubes/nanocages for energy conversion and storage: synthesis, performance and mechanism Zheng Hu	
9:30 AM - 9:50 AM	Semiconducting SWCNT: Materials, inks and printed thin film transistors Patrick R. Malenfant ; jianfu Ding; Zhao Li; Jacques Lefebvre; Fuyong Cheng; Christa 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 <i>Jiangtao Di; Yuntian . Zhu; Qingwen Li</i>	
10:40 AM - 11:10 AM	Toughness of Carbon Nanotube and Graphene Hybrid Fibers Seon Jeong Kim	
11:10 AM - 11:30 AM	Industrialization of boron nitride nanotubes: synthesis, chemistry, assemblies and composites 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 Iannitto; Steven Walker; Malgosia Daroszewska; Mark Plunkett	
11:30 AM - 12:00 PM	Carbon nanotube-silver hybrid architecture for stretchable composites and fibers Seunghyun Baik	