

Session Topic 5 -- Nano Carbon, Nano Diamond, and Carbon Nanotube-based Technologies

Chairs: Samir M. Iqbal, University of Texas at Arlington

John Ferraris, University of Texas at Dallas

TUESDAY, Room M5

Paper ID	Time	Title	Authors & Affiliations
	10:00 - 10:30	<i>Electric-field Modulation in Graphene Nanostructures</i>	
PID549632	10:30 - 11:00	<i>Energy selective tunneling in doped graphene ribbons</i>	Giuseppe Grosso, University of Pisa, Italy; Alessandro Cresti, Scuola Normale Superiore, Italy; and Giuseppe Pastori Parravicini, University of Pavia, Italy
PID559516	11:00 - 11:30	<i>A New Method for Microwave Characterization of Metallic Single-Walled Carbon Nanotubes</i>	Chunrong Song, Clemson University, USA; Zuqin Liu, Oak Ridge National Lab, USA; Gyula Eres, Oak Ridge National Lab, USA; David B. Geohegan, Oak Ridge National Lab, USA; and Pingshan Wang, Clemson University, USA
PID591270	11:30 - 12:00	<i>Effect of Single-Biomolecule Adsorption on the Electrical Properties of Short Carbon Nanotubes</i>	George Abadir, The University of British Columbia, Canada; Konrad Walus, The University of British Columbia, Canada; Robin Turner, The University of British Columbia, Canada; and David Pulfrey, The University of British Columbia, Canada
	12:00 - 2:00	Lunch	
PID596419	2:00 - 2:25	<i>Electron transport across interfaces in horizontal carbon nanofiber interconnects</i>	Toshishige Yamada, Santa Clara University, USA; Makoto Suzuki, Santa Clara University, USA; Hirohiko Kitsuki, Santa Clara University, USA; Tsutomu Saito, Santa Clara University, USA; Drazen Fabris, Santa Clara University, USA; Xuhui Sun, Santa Clara University, USA; Patrick Wilhite, Santa Clara University, USA; and Cary Yang, Santa Clara University, USA
PID592468	2:25 - 2:45	<i>Enhanced Performance of Bulk Heterojunction Solar Cells Fabricated by Polymer:Fullerene:Carbon-Nanotube Composites</i>	Liming Liu, University of Pittsburgh, USA; William Stanchina, University of Pittsburgh, USA; and Guangyong Li, University of Pittsburgh, USA
	2:45 - 3:00	Break	
PID594501	3:00 - 3:30	<i>Current Rectification by As-Grown Chemical Vapor Deposited Single-Walled Carbon Nanotubes</i>	Govind Mallick, US Army Research Laboratory, USA; Mark Griep, US Army Research Laboratory, USA; Sarah Lastella, Rensselaer Polytechnic Institute, USA; Sangeeta Sahoo, Rensselaer Polytechnic Institute, USA; Samuel Hirsch, US Army Research Laboratory, USA; Pulickel Ajayan, Rice University, USA; and Shashi Karna, US Army Research Laboratory, USA
PID596606	3:30 - 4:00	<i>Local Crystal Structure Control of Multi-walled Carbon Nanotubes by Irradiation of Ion and Electron Beam</i>	Masahiro Nakajima, Nagoya University, JAPAN; Shigeo Arai, Nagoya University, JAPAN; Yahachi Saito, Nagoya University, JAPAN; and Toshio Fukuda, Nagoya University, JAPAN
PID595846	4:00 - 4:30	<i>Effect of Percolation on Electrical Conductivity in a Carbon Nanotube-based Film Radiation Sensor</i>	Jiazhi Ma, University of Waterloo, Canada; John Yeow, University of Waterloo, Canada; James Chow, Princess Margaret Hospital, University Health Network, Canada; and Rob Barnett, Grand River Regional Cancer Center, Grand River Hospital, Canada
PID594588	4:30 - 5:00	<i>Automated Removal of Metallic Carbon Nanotubes in a Nanotube Ensemble by Electrical Breakdown</i>	Islamshah Amlani, Motorola Labs, USA; Ninad Pimparkar, Purdue University, USA; Kevin Nordquist, Motorola, USA; Derrick Lim, Motorola, USA; Zhengfang Qian, Motorola, USA; Rudy Emrick, Motorola, USA; and Sergio Clavijo, Motorola, USA
	5:00 -- 5:30	<i>Line Growth of SWNTs and Transfer to Other Surfaces for Electronic Applications</i>	Robert Hauge, Xaqiong Xu, and Cary Pint, Rice University

WEDNESDAY, Room M5

PID595726	9:00 - 9:25	<i>Experimental Characterization of DNA/CNT Hybrid Structures with Atomic Force Microscope</i>	Husein Rokadia, University of Arkansas, USA; Steve Tung, University of Arkansas, USA; and Douglas Spearot, University of Arkansas, USA
PID551789	9:25 - 9:45	<i>Atom Level Header Design on Carbon Nano Tube for DNA Sequence Reader</i>	Chugo Fujihashi, Tokyo Polytechnic University, Japan
	9:45 - 10:00	Break	
PID595259	10:00 - 10:30	<i>Improving the Dynamic Response of MWNT Sensors by Chemical Functionalization</i>	Mengxing Ouyang, Centre for Micro and Nano Systems, the Chinese University of Hong Kong, China; Ka Wai Wong, the Chinese University of Hong Kong, China; and Wen J. Li, Centre for Micro and Nano Systems, the Chinese University of Hong Kong, China

PID595705	10:30 - 11:00	<i>Photonic Effect on Oxygen-doped and De-doped Carbon Nanotubes</i>	King Wai Chiu Lai, Michigan State University, USA; Ning Xi, Michigan State University, USA; Carmen Kar Man Fung, Michigan State University, USA; Hongzhi Chen, Michigan State University, USA; Jiangbo Zhang, Michigan State University, USA; and Yilun Luo, Michigan State University, USA
PID595040	11:00 - 11:30	<i>Formation of p-n Junctions in Double-Walled Carbon Nanotubes by a Plasma Ionirradiation Method</i>	Yongfeng Li, Tohoku University, Japan; Rikizo Hatakeyama, Tohoku University, Japan; Toshiro Kaneko, Tohoku University, Japan; and Kazuyuki Tohji, Tohoku University, Japan
	11:30 - 12:00	<i>Poster Session</i>	
	12:00 - 2:00	Lunch	
	2:00 - 2:45	Poster Session (Cont'd)	
	2:45 - 3:00	Break	
Poster Session (Wednesday 2 - 2:45pm)			
PID553028	Poster	<i>Field Emission Properties of Carbon Nanotube Thin Films Grown on Different Substrate Materials</i>	N. Sinha, University of Waterloo, Canada; Y. Sun, University of Waterloo, Canada; and J.T.W. Yeow, University of Waterloo, Canada
PID554990	Poster	<i>A Thin, Vertical, Parallel Plate Capacitor with Multi-Wall Carbon Nanotube Electrodes</i>	Mark Budnik, Valparaiso University, USA; Eric Johnson, Valparaiso University, USA; and Joshua Wood, Valparaiso University, USA
PID585455	Poster	<i>Asymptotic Coagulation–Fragmentation Equations</i>	Francisco Torrens, Universitat de Valencia, Spain; and Gloria Castellano, Universidad Catolica de Valencia, Spain
PID595081	Poster	<i>Dielectrophoretic Frequency Effect on Purification and Field Emission of Carbon Nanotubes</i>	Chin-Tu Lu, Southern Taiwan University, Taiwan; Wu-Chung Sue, Southern Taiwan University, Taiwan; Ching-Hua Wei, Southern Taiwan University, Taiwan; You-Ming Hsu, Southern Taiwan University, Taiwan; and Hsiang-Ching Chen, Southern Taiwan University, Taiwan
PID595458	Poster	<i>UV-Illumination Induced Desorption of CNT Sensors</i>	Li Yang, The Chinese University of Hong Kong, Hong Kong SAR, China; Mengxing Ouyang, The Chinese University of Hong Kong, Hong Kong SAR, China; Wen Jung Li, The Chinese University of Hong Kong, Hong Kong SAR, China; and Xuliang Han, Brewer Science, Inc., Rolla, Missouri, US
PID595715	Poster	<i>Thermal and Electrical Transport in Carbon Nanofiber Interconnects</i>	Tsutomu Saito, Santa Clara University, USA; Hirohiko Kitsuki, Hitachi High-Technologies Corporation, JAPAN; Makoto Suzuki, Hitachi High-Technologies Corporation, JAPAN; Toshishige Yamada, Santa Clara University, USA; Drazen Fabris, Santa Clara University, USA; and Cary Y. Yang, Santa Clara University, USA
PID595994	Poster	<i>Manipulation and Observation of Carbon Nanotubes in Water Using Microfluidic Chip under Optical Microscope</i>	Naoki Inomata, Tohoku University, Japan; Yoko Yamanishi, Tohoku University, Japan; and Fumihito Arai, Tohoku University, Japan
PID596126	Poster	<i>The Carbon Nanotube Based Micro Bubble Generator in Micro Channel with Dynamic Fluid</i>	Peng Xiao, Center for Micro and Nano System, China, Hong Kong S.A.R; Wai Kit Chan, University of Waterloo, Canada; Ho Shing Poon, Center for Micro and Nano System, China, Hong Kong S.A.R; and Wen Jung Li, Center for Micro and Nano System, China, Hong Kong S.A.R; Ru xu Du, Institute of Precision Engineering, China, Hong Kong S.A.R
PID597566	Poster	<i>Poly(Hydridocarbyne) as Highly Processable Insulating Polymer Precursor to Micro/Nanostructures and Graphite Conductors</i>	Aaron Katzenmeyer, University of California, Davis, USA; Yavuz Bayam, University of California, Davis and Sakarya University (Turkey), USA; Logeeswaran VJ, University of California, Davis, USA; Michael Pitcher, METU, Turkey; Yusuf Nur, METU, Turkey; Semih Seyidolu, METU, Turkey; Levent Toppare, METU, Turkey; Alec Talin, Sandia National Laboratories, USA; Saif Islam, University of California, Davis, USA; Huilan Han, University of California, Davis, USA; and Cristina Davis, University of California, Davis, USA
PID644003	Poster	<i>Design and Characterization of Carbon Nanofibers for Via Applications</i>	wen wu, Santa Clara University, U.S.A.; Dinh Nguyen, Santa Clara University, U.S.A.; Patrick Wilhite, Santa Clara University, U.S.A.; Tsutomu Saito, Santa Clara University, U.S.A.; Shoba Krishnan, Santa Clara University, U.S.A.; and Cary Y. Yang, Santa Clara University, U.S.A.