

**THURSDAY, DECEMBER 17, 2015**

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

Presiding Officer(s): **Shigeo Maruyama** (The University of Tokyo) and **Rong Xiang** (The University of Hawaii)  
7:00 PM - 9:00 PM; **Halls I, II, III (Hawaii Convention Center)**

7:00 PM - 9:00 PM	Uncovering the potential of CNTs as nano- heat pipes <b>Alexandros Askounis</b> ; Yutaka Yamada; Khellil Sefiane; Yasuyuki Takata; Tatsuya Ikuta; Koji Takahashi
7:00 PM - 9:00 PM	Electrosprayed carbon nanotubes: Towards enhanced interfacial adhesion in carbon fibre composites <b>Quanxiang Li</b> ; Minoo Naebe; Bronwyn Fox; <b>Jeffrey S. Church</b>
7:00 PM - 9:00 PM	Understanding Surfactant Structure at the Surface of Carbon Nanotube via Single Molecule Fluorescence Spectroscopy <b>RAJIB PRAMANIK</b> ; Stephen K. Doorn; Juan Duque
7:00 PM - 9:00 PM	Influence of covalent dopants on the optical properties and exciton lifetimes in single-wall carbon nanotubes <b>Nicolai F. Hartmann</b> ; Xuedan Ma; Erik H. H�roz; Sibel Yalcin; Han Htoon; Stephen K. Doorn
7:00 PM - 9:00 PM	Using Supercritical Carbon Dioxide to Create Multi-scale Composites <b>Donald G. Baird</b>
7:00 PM - 9:00 PM	Dielectric/electric properties of composites filled with multiwalled carbon nanotubes <b>Juras Banys</b> ; Ieva Kranauskaite; Jan Macutkevici; Vladimir L. Kuznetsov; Sergey Moseenkov
7:00 PM - 9:00 PM	Efficient Semiconducting Single-walled Carbon Nanotube Sorting with a Removable Solubilizer Based on Dynamic Supramolecular Chemistry <b>Naotoshi Nakashima</b> ; Fumiyuki Toshimitsu
7:00 PM - 9:00 PM	Characteristics of polybutylene terephthalate composites containing polybutylene terephthalate grafted multi-walled carbon nanotubes fabricated by reactive extrusion <b>Eun yeob Choi</b> ; JI YEONG KIM; Yongjun Jo; Chang Keun Kim
7:00 PM - 9:00 PM	Atmospheric-pressure controllable synthesis of heteroatom-doped carbon nanotube and its applications for electrochemical energy storage and conversion <b>Wei-Hung Chiang</b> ; Min-Hsin Yeh; Ta-Jen Li; Lu-Yin Lin; Yow-An Leu; Yan-Sheng Li; Guan-Lin Chen; Kuo-Chuan Ho
7:00 PM - 9:00 PM	Alteration of blend morphology via the addition of long nanotubes <b>Brian Grady</b> ; Steve Crossley; Jiayi Guo; John Zapata; Nick Briggs
7:00 PM - 9:00 PM	In situ observation of intermediates in chemical vapor deposition synthesis of carbon nanotube <b>Shuhei Inoue</b> ; Yosuke Ohga; Yukihiko Matsumura
7:00 PM - 9:00 PM	Carbon nanotube electrodes for vanadium redox flow batteries <b>Keizo Iseki</b> ; Gaku Orijii; Masatoshi Ichikawa; Kenzo Hanawa
7:00 PM - 9:00 PM	Preparation of Poly(N-isopropylacrylamide) Terminated Carbon Nanotubes and their Aggregation Properties Responding to Infrared Light and Heating <b>Ryota Ishizaki</b> ; Shingo Tamesue; Tetsu Mitsumata; Norio Tsubokawa; Takeshi Yamauchi
7:00 PM - 9:00 PM	Organic and elemental molecules encapsulated in single-walled carbon nanotubes as Na and Li ion battery electrodes <b>Shinji Kawasaki</b> ; Yosuke Ishii; Yuki Sakamoto
7:00 PM - 9:00 PM	Synthesis and characterization of Co nanoparticles on multi-wall carbon nanotubes for catalytic applications <b>Mariya A. Kazakova</b> ; Andrey S. Andreev; Arkadiy V. Ishchenko; Olga B. Lapina; Vladimir L. Kuznetsov
7:00 PM - 9:00 PM	Artificial muscle response to temperature <b>Hyunsoo Kim</b> ; Ray H. Baughman; Seon Jeong Kim
7:00 PM - 9:00 PM	The effect of chirality separation on SWCNT-TFTs using DNA-wrapped SWCNTs <b>Yuki Kuwahara</b> ; Fumiyuki Nihey; Shigekazu Ohmori; Takeshi Saito
7:00 PM - 9:00 PM	Water adsorption phenomena on vertically-aligned single-walled carbon nanotubes <b>Jun Kuwabara</b> ; Shohei Chiashi; Genta Yamaguchi; Hiroki Kato; Yoshikazu Homma
7:00 PM - 9:00 PM	Extraordinary mechanical flexibility of bimetallic AgPt nanoparticle-decorated carbon nanotubes on PET substrates <b>Kuan-Jiuh Lin</b>
7:00 PM - 9:00 PM	Analytical analysis of purity and composition of MWCNTs materials: Working towards a MWCNT Reference Material

**Elisabeth Mansfield**

7:00 PM - 9:00 PM	Construction of unique logic circuits using carbon-nanotube-composite papers <b>Koki Matsui</b> ; <i>Takahide Oya</i>
7:00 PM - 9:00 PM	Development of paint-type dye-sensitized solar cell using carbon nanotube paint and its evaluation <b>Yuki Matsunaga</b> ; <i>Takahide Oya</i>
7:00 PM - 9:00 PM	Tight binding models of carbon nanotube and applications to quantum information processing <b>Michael McGuigan</b>
7:00 PM - 9:00 PM	Thermoelectric properties of single-walled carbon nanotubes filled in ionic liquid <b>Motohiro Nakano</b> ; <i>Yoshiyuki Nonoguchi; Takuya Nakashima; Tsuyoshi Kawai</i>
7:00 PM - 9:00 PM	Organic Thermoelectric Hybrid of Inorganic One-Dimensional Nanomaterials and Conducting Polymer or Polymer Complex <b>Keisuke Oshima</b> ; <i>Yukihide Shiraishi; Naoki Toshima</i>
7:00 PM - 9:00 PM	Yarn-based enzymatic biofuel cell for biomedical applications <b>Young Bin Park</b> ; <i>Ray H. Baughman; Seon Jeong Kim</i>
7:00 PM - 9:00 PM	Structure and properties of chalcogen encapsulated carbon nanotubes studied by molecular dynamics simulations <b>Yutaka Sato</b> ; <i>Yosuke Kataoka; Hironori Ogata</i>
7:00 PM - 9:00 PM	Fluid dynamic slicing of super tensile carbon nanotubes <b>Kasturi Vimalanathan</b> ; <i>Jason Gascooke; Harshita Kumari; Warren Lawrance; Jerry L. Atwood; Colin Raston</i>
7:00 PM - 9:00 PM	Single-Walled Carbon Nanotubes as Etching Masks for Ion Sputtering <b>Woongbin Yim</b> ; <i>Huiseong Jeong; S.J. Park; Y.H. Ahn; Soonil Lee; Ji-Yong Park</i>
7:00 PM - 9:00 PM	Local structures and properties of the alkali halide crystals encapsulated in single-walled carbon nanotubes studied by molecular dynamics simulations and solid-state <b>Eita Yokokura</b> ; <i>Yosuke Kataoka; Hironori Ogata</i>
7:00 PM - 9:00 PM	Toward roll-to-roll production of carbon nanotubes using microwave <b>Xinyu Zhang</b> ; <i>Jonathan Cook</i>