

## 22: 4th Topical Conference on Nanoscale Science and Engineering Forum

**To Use this Index:** Scroll down or use the bookmarks in the left-hand frame to move to a new location in this index. Click on a [blue paper title](#) to view that paper. To return to this index after viewing a paper, click the PREVIOUS MENU bookmark in the left frame.

### Session 42 - Nanoscale Systems II: Frontiers in Nanoscience and Technology (invited talks)

Chair: Lev Gelb

Vice Chair: Janna K Maranas

### Session 47 - Molecular Modeling Methods I: Recent advances in Molecular Dynamics

Chair: Jonathan Moore

Vice Chair: Jeffrey R Errington

47h            [Replica Exchange Molecular Dynamics Modeling of Foldamers](#)  
*Bamidele Adisa, David Bruce and Jay McAliley*

### Session 48 - Nanoscale Systems I: Water in Heterogeneous Environments

Chair: Bernhardt L Trout

Vice Chair: J. Ilja Siepmann

48a            [Molecular Dynamics Simulation of Methane Hydrate Dissociation](#)  
*Niall J. English*

48e            [Pressure Denaturation of Proteins in Water: Revisiting a Heteropolymer Collapse Model](#)  
*Pooja Shah, Thomas M. Truskett*

### Session 53 - Molecular Modeling Methods III: Developments in intermolecular potential models

Chair: Marcus Martin

Vice Chair: Matthew Neurock

53e            [Transferable Step Potentials for Amines, Primary Amides, Ketones, Thiophenes, Phosphates, and Chlorinated Hydrocarbons](#)  
*Amanda Sans, F. Suhan Baskaya, Neil H. Gray, Zeynep N. Gerek and J. Richard Elliott*

### Session 59 - Advances in Biomaterials, Bionanotechnology, Biomimetic Systems and Tissue Engineering: Plenary Session I \*

Chair: Nicholas A Peppas

Vice Chair: Angela K Dillow

### Session 60 - Advances in Biomaterials, Bionanotechnology, Biomimetic Systems and Tissue Engineering: Plenary Session II \*

Chair: Christine E Schmidt

Vice Chair: Angela K Dillow

### Session 62 - Intracellular Trafficking of Biomaterials/Bionanotech Devices

Chair: Justin Hanes

Vice Chair: Julia Babensee

62d            [Real-time Correlation of Intracellular Gene Vector Transport Rates with Biological Location in Live Mesenchymal Stem Cells](#)  
*J. Suh, Y. An, B. Tang, J.S. Suk and J. Hanes*

62e            [Cellular Uptake and Intracellular Transport of Viral and Non-viral Gene Vectors in Differentiated Neurons Affected in Parkinson's Disease](#)  
*J.S. Suk, J. Suh and J. Hanes*

## Session 64 - Nanotechnology for Drug Delivery and Imaging

Chair: Lisa Brannon-Peppas

Vice Chair: Samir Mitragotri

- 64d [Tracking the Intracellular Path of Fluorescently Labeled DNA Delivered by PEI Nanocomplexes in Live Cells](#)  
*Y. An, J. Suh and J. Hanes*
- 64g [Paclitaxel-loaded biodegradable nanoparticles developed by direct dialysis and electrohydrodynamic atomization methods](#)  
*Jingwei Xie and Chi-Hwa Wang*

## Session 65 - Nanostructured Biomaterials

Chair: Jeffrey D Carbeck

Vice Chair: Krishnendu Roy

- 65e [Carbohydrate-Centered PAMAM Dendrimers for Growing Liver Cells](#)  
*Jeremy D. Lease and Tong Yen Wah*
- 65f [More Efficient Capture of Bacteria on Nanophase Materials](#)  
*Z. Zhong, and Margaret K. Banks and Thomas J. Webster*

## Session 66 - Nanofabrication of Biosensing Devices

Chair: Mark E Byrne

Vice Chair: J. Zach Hilt

- 66b [A Rapid Antigen Detection Assay Using Photografted Whole Antibodies](#)  
*Sebra, R.P., Masters, K.S., Bowman, C.N., Anseth, K.S.*
- 66d [Biomimetic Polymers in Drug Delivery and Sensing Applications: Effect of Network Molecular Structure on Recognition Properties](#)  
*J. Zach Hilt, Nicholas A. Peppas and Mark E. Byrne*

## Session 67 - Bionanotechnology in Cancer and Cardiovascular Disease

Chair: Justin Hanes

Vice Chair: Douglas J Goetz

- 67g [A new mutation affecting the ATP pocket of kit receptor in patients with GIST showing acquired resistance to Imatinib: a coupled experimental and modeling investigation](#)  
*S. Pricl, A. Coslanich, M. Fermeiglia, M. Ferrone, M.S. Paneni, E. Tamborini, S. Pilotti, M.A. Pierotti*

## Session 70 - Advances in Biomaterials, Bionanotechnology, Biomimetic Systems and Tissue Engineering: Tutorial Session I

Chair: Surya K Mallapragada

Vice Chair: Christopher S Brazel

- 70a [Manipulating Cellular Response Through Polymer Chemistry and Morphology](#)  
*Molly S. Shoichet, Paul Dalton, Jeffrey M. Karp, Ying Luo and Tina Yu*
- 70d [Theory and Applications of Intelligent Biomaterials](#)  
*Nicholas A Peppas*

## Session 73 - Advances in Biomaterials, Bionanotechnology, Biomimetic Systems and Tissue Engineering: Tutorial Session II

Chair: Antonios G Mikos

Vice Chair: Thomas J Webster

- 73a [The future of intelligent therapeutics](#)  
*Nicholas A Peppas, Nicole M Bergmann and E. Hunter Lauten*

## Session 76 - Nanotechnology in Bioengineering

Chair: Christina Chan

Vice Chair: Krishnendu Roy

- 76c            [Functionalized ZnSe Quantum Dots as Luminescent Tags in High-Throughput Biological Assays](#)  
*Jun Wang, Stelios Andreadis and T.J. Mountziaris*
- 76e            [Self-assembly of Pure Nanotubes from a Single-Chain Diacetylene Amine Salt](#)  
*Sang Beom Lee, Richard Koepsel, Donna B. Stolz, Heidi E. Warriner and Alan J. Russell*
- 76f            [Selective Primary Hepatocyte Adhesion on Polyelectrolyte Multilayer : Template for Patterned Cell Co-Culture](#)  
*Srivatsan Kidambi, Ilsoon Lee, Christina Chan*
- 76g            [Towards Single-Walled Carbon Nanotubes as an Integrated Component of Conductive Biomaterials: The Effect of Production Contaminants on in vitro Cell Viability and Metabolic Activity](#)  
*Aditya Nimmagadda and Peter S. McFetridge*

## Session 80 - Biological Materials for Patterning and Assembly of Nanomaterials

Chair: J. Zach Hilt

Vice Chair: Mark E Byrne

- 80b            [Topography of self-assembled zein structures on hydrophilic and hydrophobic surfaces](#)  
*Qin Wang and Graciela W. Padua*
- 80c            [E. coli Biosynthesis of Cadmium Sulfide Nanocrystals](#)  
*Rozamond Y. Sweeney, Chuanbin Mao, Angela M. Belcher, Brent L. Iverson and George Georgiou*

## Session 81 - Nanotechnology for the Development of Biomaterials, SAMs, Wires and Nanotubes

Chair: Thomas J Webster

Vice Chair: Balaji Narasimhan

- 81a            [Osteoblasts Alignment on Nanophse Materials](#)  
*Dongwoo Khang and Thomas J. Webster*
- 81b            [Inverted Colloidal Crystals as Tissue Engineering Scaffolds](#)  
*Jungwoo Lee and Nicholas Kotov*
- 81f            [Self-assembly of phage semiconductor nanowires](#)  
*Rozamond Y. Sweeney, Angela M. Belcher, Brent L. Iverson and George Georgiou*
- 81g            [CdTe and Au quantum-dot bioconjugated super-molecules: light emission and energy transport](#)  
*Jaebeom Lee, Alexander O. Govorov, John Dulka and Nicholas A. Kotov*

## Session 154 - Thermodynamics on the Nanoscale I \*

Chair: Mikhail A Anisimov

Vice Chair: Hank Ashbaugh

## Session 157 - Thermodynamics on the Nanoscale II \*

Chair: Hank Ashbaugh

Vice Chair: Mikhail A Anisimov

## Session 171 - Nanoparticle Synthesis and Stabilization I

Chair: Darrell Velegol

Vice Chair: Nickolas Kotov

- 171a            [Facile Synthesis and Colloidal Stabilization of Metal Nanoparticles in Aqueous Amphiphilic Block Copolymer Solutions](#)  
*Toshio Sakai and Paschalis Alexandridis*

### **Session 174 - Nanoparticle Synthesis and Stabilization II \***

Chair: Darrell Velegol

Vice Chair: Nickolas Kotov

### **Session 176 - Applications of Nanostructured Fluids**

Chair: Raj Wallajapet

Vice Chair: Paschalis Alexandridis

176g            [Removal of Arsenic from Water Using Amphiphilic Molecules and Ultrafiltration Membranes](#)  
*Erdogan Ergican and Hatice Gecol*

### **Session 197 - Current Trends in Nanoscience in Chemical Engineering: Making the Transition From Materials and Phenomena to New Technologies**

Chair: Brian A Korgel

Vice Chair: Lynn Loo

197g            [Batch and continuous hydrothermal synthesis of LiFePO<sub>4</sub> micro- and nanoparticles](#)  
*Jaewon Lee, Chunbao Xu and Aryn S. Teja*

### **Session 201 - Transport Processes in Nanophase and Nanoscale Systems \***

Chair: Marc-Olivier Coppens

Vice Chair: Joel Plawsky

### **Session 281 - Nano Energetic Materials**

Chair: Jan A Puszynski

Vice Chair: Hendrik J Viljoen

281b            [Effect of Aluminum Nanopowder Characteristics on Preparation and Performance of Al-Metal Oxide Nanoenergetic Mixtures](#)  
*Christopher J Bulian, Tyler T Kerr, Jacek J Swiatkiewicz, Jan A Puszynski*

281d            [A Study in Mechano-Chemistry: Pressure Induced Reactions and Nonequilibrium Phenomenon](#)  
*Alexander Gordopolov, Hendrik J. Viljoen*

281e            [In-Situ Polymer Grafting on Ultrafine Metal Powders](#)  
*Charles DUBOIS, Patrick BROUSSEAU, Cedric ROY, Pierre LAFLEUR*

281f            [Nanofuel/Oxidizers For Energetic Compositions](#)  
*Randall J. Cramer*

### **Session 286 - Gas Phase Synthesis of Nano-particles I**

Chair: George Fotou

Vice Chair: Karsten Wegner

286f            [Generation of Aluminum Nanoparticles Using an Atmospheric Pressure Plasma Torch](#)  
*John C. Weigle, Claudia C. Luhrs, C.-K. Chen, W. Lee Perry, Joseph T. Mang, Gabriel P. Lopez, Jonathan Phillips*

### **Session 290 - Multicomponent Structured Particles**

Chair: Sotiris Pratsinis

Vice Chair: George Fotou

290b            [Radiopaque flame-made Ta<sub>2</sub>O<sub>5</sub>/SiO<sub>2</sub> nanoparticles with controlled refractive index and transparency](#)  
*Heiko Schulza (speaker), Lutz Mädler, Sotiris E. Pratsinisa, Peter Burtscherb, Norbert Mosznerb*

290c            [Fluidization Behavior and Conformal Coating of Nanoparticles in Fluidized Beds by ALD](#)  
*Luis F. Hakim, Julie L. Portman, Michelle D. Casper, Alan W. Weimer*

## Session 291 - Gas Phase Synthesis of Nano-particles II

Chair: George Fotou

Vice Chair: Karsten Wegner

291e [Formation of Nanoparticles in Flames Measurement by Particle Mass Spectrometry and Numerical Simulation](#)  
*H.-R. Paur, H. Mätzing, H. Seifert*

291g [Effect of Annealing on the Mechanical Properties of Porous Titania Nanoparticle Agglomerate Films](#)  
*O. A. Ogunsola, S. H. Ehrman*

## Session 360 - Nanoparticle Assemblies and Superlattices \*

Chair: Yangchuan Xing

Vice Chair: Michael Z Hu

## Session 365 - Liquid-Phase Synthesis of Nanoparticles \*

Chair: Michael T Harris

Vice Chair: Michael S Wong

## Session 430 - Operation of Micro-and Nano-systems

Chair: Vipin Gopal

Vice Chair: Claire Adjiman

430b [Optimal Design and Operation of Micro Power Generation Processes](#)  
*Benoit Chachuat, Alexander Mitsos and Paul I. Barton*

430d [Thermo-fluid Design Approach to Microreactors with Uniform Temperature and Residence Time Distribution](#)  
*Osamu Tonomura, Masaru Noda, Manabu Kano and Shinji Hasebe*

430g [Evaluation of operational process parameters for nanoparticle precipitation in microemulsions using a Monte-Carlo Simulation approach](#)  
*Andreas Voigt, Dendy Adityawarman and Kai Sundmacher*

## Session 558 - Synthesis and Characterization of Nanostructured Catalytic Materials: Experiment and Simulation

Chair: Christopher T Williams

Vice Chair: Alexander Katz

558g [Preparation of High Surface Area VOHPO<sub>4</sub>·0.5H<sub>2</sub>O with the Alkoxide Method](#)  
*Juan M. Salazar, Keith L. Hohn*

## Session 566 - Nanoscale Science and Engineering Plenary Lectures I

Chair: Sharon C Glotzer

Vice Chair: Michael S Strano

566a [Nanotechnology for the Enhancement of Human Health](#)  
*James R. Baker, Jr. M.D.*

566b [Virus-Based Genetic Toolkit for the Directed Synthesis of Magnetic and Semiconducting Nanowires](#)  
*Angela M. Belcher, Chuanbin Mao, Daniel J. Solis, Brian D. Reiss, Stephen T. Kottmann, Rozamond Y. Sweeney, George Georgiou, Brent Iverson*

566c [Functionalization of Carbon Nanotubes](#)  
*James M. Tour*

566d [Evolution of Bio-assisted Molecular Electronics In Dupont](#)  
*Timothy Gierke*

## **Session 567 - Nanoscale Science and Engineering Plenary Lectures II: The National Nanotechnology Initiative \***

Chair: Peter T Cummings

Vice Chair: Gil U Lee

## **Session 568 - Nanotechnology for Biotechnology and Pharmaceuticals Industries**

Chair: Henry Y Wang

Vice Chair: Shuichi Takayama

568f [Highly Stable Core-Surface-Crosslinked Micelles as Drug Carriers for Cancer Chemotherapy](#)  
*Peisheng Xu, Huadong Tang, Shiyan Li, Jun Ren, Van Kirk, Edward., Murdoch, William. J., Maciej Radosz, Youqing Shen*

## **Session 569 - Nanofabrication and Nanoscale Processing I**

Chair: Hank Foley

Vice Chair: Sharon C Glotzer

569a [Fluidic Self-Assembly of Nanowires](#)  
*Zhiyong Gu, Yiming Chen, David H. Gracias*

## **Session 570 - Nanostructured Hybrid Organic/Inorganic Materials \***

Chair: Sharon C Glotzer

Vice Chair: Clare McCabe

## **Session 571 - Issues in Carbon Nanotubes I: Synthesis of Carbon Nanotubes and Nanotube-based Materials**

Chair: Daniel E Resasco

Vice Chair: Michael S Strano

571f [Synthesis, Characterization and Stability of Fe-MCM-41 for Production of Carbon Nanotubes by Acetylene Pyrolysis](#)  
*Placidus Amama, Sangyun Lim, Dragos Ciuparu, Yanhui Yang, Lisa Pfefferle, Gary Haller*

## **Session 572 - Nanofabrication and Nanoscale Processing II**

Chair: Hank Foley

Vice Chair: Sharon C Glotzer

572b [Sub-50 nm Imprint Lithography for Wafer-Scale Nano-Manufacturing](#)  
*V. N. Truskett, F. Xu, I. McMackin, J. Choi, P. Schumaker, D. Babbs, E. Thompson, S. V. Sreenivasan, M. Watts, N. Schumaker*

572f [Conductive Copper Patterns by an Additive, Solventless, Contact Printing Technique](#)  
*Kimberly Felmet, Yangming Sun, Yueh-Lin Loo*

## **Session 573 - Issues in Carbon Nanotubes II: Characterization, Functionalization and Applications \***

Chair: Michael S Strano

Vice Chair: Karl Johnson

## **Session 574 - Nanoscale Structure in Polymers I: Self-organization of Polymers at Surfaces and Interfaces \***

Chair: Carson Meredith

Vice Chair: Sanat Kumar

## **Session 575 - Self and Directed Assembly at the Nanoscale I \***

Chair: Hank Ashbaugh

Vice Chair: Kristen A Fichthorn

### **Session 576 - Issues in Carbon Nanotubes III: Adsorption and Transport**

Chair: Karl Johnson

Vice Chair: Daniel E Resasco

- 576h [Characterization of Single-Walled Carbon Nanotubes for Environmental Implications](#)  
*Sandeep Agnihotri, Massoud Rostam-Abadi, Mark. J. Rood*

### **Session 577 - Nanoscale Structure in Polymers II: Nanostructured Polymeric Materials**

Chair: Rangaramanujam M Kannan

Vice Chair: Yossef A Elabd

- 577b [Texture Formation in Multiphase Polymer-Liquid Crystal Materials](#)  
*Susanta K. Das, Alejandro D. Rey*
- 577f [Preparation of Poly\(vinyl alcohol\)/TiO<sub>2</sub> Nanofibers by Electrospinning](#)  
*Yu-Hsun Nien, Po-Jung Lin, Lih-Yun Wu, Tzy-Harn Liou, Pey -I Wey*

### **Session 578 - Poster Session: Nanoscale Science and Engineering**

Chair: Sharon C Glotzer

Vice Chair: Daniel C Coy

- 578ai [Patterned films of ITO nanoparticles fabricated by Ink-jet method](#)  
*Kaori Eguchi, Hideshi Sasakura and Yukio Yamaguchi*
- 578aq [Melting and Structural Evolution of Palladium and Graphite-supported Palladium Nanoclusters: A Molecular Dynamics Simulation Study](#)  
*Ling Miao, Venkat R. Bhethanabotla and Babu Joseph*
- 578b [Computer simulation of polymer-organoclay nanocomposites for packaging applications: from binding energy to interlayer spacing predictions](#)  
*S. Pricl, A. Coslanich, M. Fermeglia, M. Ferrone, M.S. Paneni, G. Scocchi, L. Incarnato and G. Russo*
- 578c [Molecular modeling of hydrogen storage in carbon nanotubes: a combined molecular dynamics/ab initio orbital study](#)  
*S. Pricl, A. Coslanich, M. Fermeglia, M. Ferrone, M.S. Paneni and F. Romanel*
- 578g [Selective growth of RuO<sub>2</sub> nanorods and influence of thermal heating on their field emission properties](#)  
*Dah-Shyang Tsai, Chih-Sung Hsieh and Ginny Wang*
- 578k [Composite Nanoparticles for Defectivity Reduction during CMP](#)  
*Silvia Armini, Valentina Terzieva and Karen Maex*
- 578s [Surface modification of titania nanoparticles by an evaporation-condensation process in a flow chamber](#)  
*Seonmin Kim and Sheryl Ehrman*

### **Session 579 - Nanoelectronic Materials**

Chair: Brett A Cruden

Vice Chair: Michael Z Hu

- 579b [Understanding the Assembly of Conjugated Dithiol Molecules on GaAs](#)  
*Dmitry Krapchetov, Hong Ma, Daniel A. Fischer, Alex Jen and Yueh-Lin (Lynn) Loo*

### **Session 580 - Nanoscale Structure in Polymers III: Polymer Nanocomposites**

Chair: Robb M Winter

Vice Chair: Russell E Gorga

- 580d [Nucleation Effects of Nanoparticles on Microcellular Polystyrene Foams](#)  
*Jiong Shen, Changchun Zeng and L. James Lee*

### **Session 581 - Self and Directed Assembly at the Nanoscale II**

Chair: Hank Ashbaugh

Vice Chair: Kristen A Fichthorn

581f [Equilibrium Microstructure of Complex Fluids](#)  
*YoChan Kim, Charles A. Petty and André Bénard*

### **Session 582 - Issues in Carbon Nanotubes IV**

Chair: Daniel E Resasco

Vice Chair: Michael S Strano

582g [Direct Synthesis of Carbon Nanotubes on Organic Polymer Substrates](#)  
*Eun-Hwa Hong, Beom-Jin Yoon, Dae-Sup Shim and Kun-Hong Lee*

### **Session 583 - Nanotechnology and Nanobiotechnology for Sensors I \***

Chair: Mark W Vaughn

Vice Chair: Venkat R Bhethanabotia

### **Session 584 - Self and Directed Assembly at the Nanoscale III**

Chair: Hank Ashbaugh

Vice Chair: Kristen A Fichthorn

584f [Permanently Linked Rigid Superparamagnetic Chains](#)  
*Harpreet Singh, Paul E. Laibinis and T. Alan Hatton*

### **Session 585 - Issues in Carbon Nanotubes V \***

Chair: Karl Johnson

Vice Chair: Daniel E Resasco

### **Session 586 - Nanoscale Structure in Polymers IV \***

Chair: Carson Meredith

Vice Chair: Sanat Kumar

### **Session 587 - Nanomaterials and Devices for Energy Applications**

Chair: Levi T Thompson

Vice Chair: Hank Foley

587b [Hydrogen Production from Simulated Gasoline using Nickel-Based Catalysts](#)  
*Andrew Tadd, Ben Gould and Johannes Schwank*

### **Session 589 - Nanoscale Structure in Polymers V**

Chair: Rangaramanujam M Kannan

Vice Chair: Yossef A Elabd

589d [Molecular dynamics simulation of thermal and mechanical properties of polyimide-carbon-nanotube composites](#)  
*Dewei Qi and Jeffrey Hinkley*

### **Session 590 - Synthesis of Nanostructured Hybrid Organic/Inorganic Materials**

Chair: Sharon C Glotzer

Vice Chair:

590d [Self-Organization of Monolayer of Polystyrene Spheres Assisted with Silica Nanoparticles by Wet Coating](#)  
*Hideshi Sasakura, Masahiro Fujita and Yukio Yamaguchi*

590f [Continuous hydrothermal synthesis of polymer-coated Fe<sub>2</sub>O<sub>3</sub> and CoFe<sub>2</sub>O<sub>4</sub> nanoparticles](#)  
*Chunbao Xu and Aryn S. Teja*



### **Session 591 - Carbon Nanotubes VI**

Chair: Daniel E Resasco

Vice Chair: Michael S Strano

591a [Carbon Nanotubes As A Premium Catalyst Support Material](#)  
*Jun Ma*

### **Session 592 - Self-assembly of Templated Inorganic Materials I \***

Chair: Michael S Wong

Vice Chair: Hugh W Hillhouse

### **Session 593 - Nanowires I**

Chair: Mahendra K Sunkara

Vice Chair: Eray S Aydil

593f [Direct synthesis, characterization and modification of SiC nanowires](#)  
*Kijung Yong, Yonghwan Ryu and Youngjo Tak*

593g [Bioconjugation between CdTe nanowires and Au nanoparticles: Fluorescence enhancement](#)  
*J. B. Lee, A. O. Govorov, J. Dulka and N. A. Kotov*

### **Session 594 - Nanotribology**

Chair: Peter T Cummings

Vice Chair: Shaoyi Jiang

594f [Lateral Force Microscopy Study of the Friction between Silica Surfaces in Electrolyte Solutions](#)  
*Bogdan C. Donose, Ivan U. Vakarelski and Ko Higashitani*

### **Session 595 - Manipulation of Nanophases by External Fields**

Chair: Michael T Harris

Vice Chair: Michael Z Hu

595h [Small-Scale Pattern Size Control during Metal Electropolishing](#)  
*Weidong Guo and Duane T. Johnson*

### **Session 596 - Nanobiotechnology**

Chair: Nicholas A Peppas

Vice Chair: Joerg Lahann

596b [A Microfluidic Chip for Bio-Bar-Code-Based Detection of Proteins](#)  
*Edgar D. Goluch, Jwa-Min Nam, Thomas N. Chiesl, Kashan A. Shaikh, Kee Suk Ryu, Annelise E. Barron, Chad A. Mirkin, and Chang Liu*

### **Session 597 - Nanotemplating of Polymers**

Chair: Seong H Kim

Vice Chair: Allan Guymon

597b [Nano-templated Silsesquioxanes for Electrical/Optical Applications](#)  
*Sue Ann Bidstrup Allen, Jaseem Abdallah and Paul A. Kohl*

597e [Monitoring sintering of nanoparticle clusters by X-ray microtomography](#)  
*O Gundogdua, U Tuzuna and P M Jennesonb*

597f [Intermediate Processing of Polymer-Silica Hybrid Nanoparticles using X-ray Microtomography](#)  
*U Tüzün, O Gundogdu, P M Jenneson*

### **Session 598 - Self-assembly of Templated Inorganic Materials II \***

Chair: Michael S Wong

Vice Chair: Hugh W Hillhouse

## Session 599 - Nanowires II

Chair: Mahendra K Sunkara

Vice Chair: Eray S Aydil

- 599a [Metal Cluster Deposition on Genetically Engineered Tobacco Mosaic Virus Biotemplates](#)  
*Sang-Yup Lee, Elizabeth Royston, Jaewon Choi, David B. Janes, James N. Culver, and Michael T. Harris*
- 599b [A Novel Route to Fabricate Au-Te Nanocables](#)  
*Jie-Ren Ku, Ruxandra Vidu, Raisa Talroze and Pieter Stroeve*
- 599d [Molecular Dynamics Simulations for Melting of Palladium Nanoclusters and Nanowires](#)  
*Ling Miao, Venkat R. Bhethanabotla T and Babu Joseph*
- 599g [Synthesis and Characterization of Titania Nanostructures](#)  
*P. Katta, L. Khatri, R.D. Ramsier and G.G. Chase*

\* These papers were unavailable at the time of publication.