

FRIDAY ORAL PRESENTATIONS

July 1, 2011

8:30 AM - 10:30 AM
SESSION B: Dendrimer Synthesis & Characterization
Lecture Room A

* Invited paper

SESSION B3:
Chair: Rafael Gomez Ramirez
Friday Morning, July 1, 2011
Lecture Room A

8:30 AM *B3.1

Unexpected Fluorescence Observed in Simple PAMAM-type Dendrons and Dendrimers. Joern B. Christensen¹, Johannes F. Petersen¹, Martin Rosenberg¹, Kristine Kilsa¹, Donald A. Tomalia², Steffen Jockusch³ and Nicholas Turro³; ¹Department of Chemistry, University of Copenhagen, Copenhagen, Denmark; ²NanoSynthons LLC, Midland, Michigan; ³Department of Chemistry, Columbia University, New York, New York.

9:00 AM *B3.2

Synthesis, Photochemistry and Photodynamics of Functionalized Dendrimers. Tatsuo Arai, Graduate School of Pure and Applied Sciences, University of Tsukuba, Tsukuba, Japan.

9:30 AM B3.3

Investigation of the Structural and Dynamical Characteristics of PAMAM Dendrimer with Neutron/X-ray Scattering. Xin Li^{1,2}, Wei-Ren Chen¹, Yun Liu⁴, Kunlun Hong³, Kenneth Herwig⁵, Gregory Smith¹ and Li Liu²; ¹Neutron Scattering Science Division, Oak Ridge National Lab, Oak Ridge, Tennessee; ²Nuclear Engineering, Rensselaer Polytechnic Institute, Troy, New York; ³Center for Nanophase Materials Sciences, Oak Ridge National Lab, Oak Ridge, Tennessee; ⁴NIST Center for Neutron Research, National Institute of Standards and Technology, Gaithersburg, Maryland; ⁵Neutron Facilities Development Division, Oak Ridge National Lab, Oak Ridge, Tennessee.

9:50 AM B3.4

Synthesis and Characterization of Selectively Deuterated PAMAM Dendrimers. Jun Yang¹, Peter Bonnesen¹, Yun Liu², Lionel Porcar³, Wei-Ren Chen¹ and Kunlun Hong¹; ¹Oak Ridge National Laboratory, Oak Ridge, Tennessee; ²National Institute of Standards and Technology, Gaithersburg, Maryland; ³Institut Laue-Langevin, Grenoble CEDEX, France.

10:10 AM B3.5

Direct Sub-Nanometer Resolution Imaging of Water-Borne Dendrimer-Encapsulated Nanoparticles by TEM. Kate L. Klein¹, Michael G. Weir², Richard M. Crooks² and Ian M. Anderson¹; ¹Surface and Microanalysis Science Division, National Institute of Standards and Technology, Gaithersburg, Maryland; ²Department of Chemistry and Biochemistry, The University of Texas, Austin, Texas.

10:30 AM BREAK

8:30 AM - 10:30 AM
SESSION C: Hyperbranched Polymer Synthesis Characterization
Lecture Room B

* Invited paper

SESSION C3:
Chair: Amitav Sanyal
Friday Morning, July 1, 2011
Lecture Room B

8:30 AM *C3.1

Bimolecular Non-linear Polymerization (BNLP): An Economically Viable Method for Preparation of Hyperbranched Polymers. Petar R. Dvornic, Michigan Molecular Institute and Dendritech Inc, Midland, Michigan.

9:00 AM *C3.2

From Dendrons to Core Reactive Multi-arm Star Polymers. Amitav Sanyal, Bogazici University, Istanbul, Turkey.

9:30 AM *C3.3

Preparation & Patterning of Functionalizable Hydrogels from Dendron-linear Polymer Conjugates. Rana Sanyal, Bogazici University, Istanbul, Turkey.

10:00 AM *C3.4

Controlling Polymer Architectures by Catalysts. Zhishan Bo, ¹College of Chemistry, Beijing Normal University, Beijing, China; ²Institute of Chemistry, Chinese Academy of Science, Beijing, China.

10:30 AM BREAK

8:30 AM - 10:40 AM
SESSION E: Drug Delivery
Green Auditorium

* Invited paper

SESSION E6:
Chair: Dietmar Appelhans
Friday Morning, July 1, 2011
Green Auditorium

8:50 AM E6.1

The Synthesis and Study of New Fluorescent PAMAM Dendritic Molecules. Alaa El-Betany and Neil B. McKown; Department of Chemistry, Cardiff University, Cardiff, United Kingdom;

9:10 AM *E6.2

Multifunctional Dendrimer Conjugates for Nucleic Acid Delivery. Ling Peng, CNRS UPR 3118, Centre Interdisciplinaire de Nanoscience de Marseille, Marseille, France.

9:40 AM *E6.3

PAMAM Dendrimer-based Novel Therapeutics for the Targeted Treatment of Neurodegenerative Diseases. Rangaramanujam M. Kannan, ¹Chemical Engineering and Materials Science, Wayne State University, Detroit, Michigan; ²NICHD Perinatology Research Branch, Wayne State University, Detroit, Michigan.

11:00 AM - 12:00 PM
SESSION J: Plenary and Award Ceremony
Green Auditorium

* Invited paper

SESSION J7: Plenary VII and Award Ceremony
Chair: S. Thayumanavan
Friday Morning, July 1, 2011
Green Auditorium

11:00 AM *J7.1

Dendrons and Dendrimers: Window to a New Systematic Framework for Unifying and Defining Nanoscience. Donald A. Tomalia, National Dendrimer & Nanotechnology Center, NanoSynthons LLC, Midland, Michigan.

11:40 AM

Award Ceremony

11:55 AM

S. Thai Thayumanavan - Closing Statement