



Center for Green Materials Chemistry Workshop October 25-27, 2009 Belknap Hot Springs

Designing Green Materials Through Chemistry

The Center for Green Materials Chemistry is a NSF
Center for Chemical Innovation (CCI) Sponsored by



WORKSHOP PROGRAM

Sunday, 25 October 2009

1:30 pm.....**Reception**
Meet at **Lokey Labs, University of Oregon**
Reception, travel together to Belknap Hot Springs

6:00 pm.....**Dinner**

Monday, October 26, 2009

7:00 am.....**Breakfast**

8:00 am.....**Doug Keszler**, Oregon State University
Introduction to the Center for Green Materials Chemistry

SESSION 1

8:30 am.....**Darren Johnson**, University of Oregon
Overview of Nanocluster Chemistry

9:00 am.....**Sophia Hayes**, Washington University, St. Louis
*Applications of Light + NMR to Problems in
Materials Science*

9:30 am.....**David Tyler**, University of Oregon
Kinetics of Polymer Photodegradation in the Solid State

10:00 am.....**Mas Subramanian**, Oregon State University
*Benign by Design: Greener Functional Materials and
Zero-Waste Processes*

10:30 am.....**Break**

SESSION 2

10:45 am.....**Doug Keszler**, Oregon State University
Overview of Aqueous-Processed Films and Patterns

11:00 am.....**Shannon Rhia**, Colorado State University
*Nanoparticles Containing Nontoxic, Earth-Abundant
Elements for Solution-Processed Photovoltaics*

11:30 am.....**Jacob Richardson**, University of California, Santa
Barbara
*Low Temperature Aqueous Synthesis of ZnO Films and
Nanostructures*

12:00 pm.....**Lunch**

SESSION 3

- 1:30 pm **Nadine Gruhn**, University of Washington
*Center for Enabling New Technologies Through
Catalysis: Research and Management in a Phase 2 CCI*
- 2:15 pm **David Johnson**, University of Oregon
Overview of Nanolaminates
- 2:45 pm **Ian Anderson**, NIST
Materials Analysis At or Near Atomic Resolution
- 3:15 pm **Break**

SESSION 4

- 3:30 pm **Jim Hutchison**, University of Oregon
*Synthesis and transformations of
functionalized nanoparticle building blocks*
- 4:00 pm **David Schut**, Voxel
*Dipole Induced Carrier Extraction Mechanisms in
Nanocrystal Sensitized Solar Cells*
- 4:30 pm **Sujing Xie**, University of Oregon CAMOR
TITAN TEM Capabilities at CAMCOR
- 5:00 pm **Poster Session**
- 6:00 pm **Dinner**

Tuesday October 27, 2009

- 7:30 am **Breakfast**
- 9:00 am Break Out Discussions
- 10:00 am Travel to Eugene, University of Oregon

Tour of **Lokey Laboratories** followed by Lunch

contact: Lucy Biggs lbiggs@uoregon.edu
greenmaterials.uoregon.edu

Participants

Ian Anderson, NIST
Emmeline Altschul, Oregon State University
Mike Anderson, University Of Oregon/NIST
Ryan Atkins, University of Oregon
Matt Baseman, University of Oregon
Matt Beekman, University of Oregon
Tim Carter, University of Oregon
Bill Cowell, Oregon State University
Christine Gramer, University of Oregon Technology Transfer
Nadine Gruhn, University of Washington
Sophia Hayes, Washington University
Colby Heideman, University of Oregon
Krista Hill, University of Oregon
Jim Hutchison, University of Oregon
David Johnson, University of Oregon
Darren Johnson, University of Oregon
Douglas Keszler, Oregon State University
Chris Knutson, Oregon State University
Maisha Kumonde-Devonish, University of Oregon
Zachary Mensinger, University of Oregon
Ngoc Ngyuen, University of Oregon
Jacob Richardson, UC Santa Barbara
Shannon Riha, Colorado State
David Schut, Voxel Corporation
Marry Smeller, University of Oregon
Mas Subramanian, Oregon State University
Alan Telecky, Oregon State University
David Tyler, University of Oregon
Sujing Xie, University of Oregon CAMCOR

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