

**The 2013 Clusters, Nanocrystals &
Nanostructures GRC/GRS**
***From Fundamental Chemical and Physical
Processes to Applications***

P.I. Todd D. Krauss

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The 2013 Clusters, Nanocrystals & Nanostructures GRC/GRS
From Fundamental Chemical and Physical Processes to Applications

August 3-9, 2013
Mount Holyoke College
South Hadley, MA
Todd D. Krauss, P.I.

Program Manager: Mark Spitler, Ph.D.
DOE, BES Solar Photochemistry Program
Division of Chemical Sciences, Geosciences, and Biosciences

Abstract

The fundamental properties of small particles and their potential for groundbreaking applications are among the most exciting areas of study in modern physics, chemistry, and materials science. The Clusters, Nanocrystals & Nanostructures Gordon Research Conference and Gordon Research Seminar synthesize contributions from these inter-related fields that reflect the pivotal role of nano-particles at the interface between these disciplines. Size-dependent optical, electronic, magnetic and catalytic properties offer prospects for applications in many fields, and possible solutions for many of the grand challenges facing energy generation, consumption, delivery, and storage in the 21st century.

The goal of the 2013 Clusters, Nanocrystals & Nanostructures Gordon Research Conference and Gordon Research Seminar is to continue the historical interdisciplinary tradition of this series and discuss the most recent advances, basic scientific questions, and emerging applications of clusters, nanocrystals, and nanostructures. The Clusters, Nanocrystals & Nanostructures GRC/GRS traditionally brings together the leading scientific groups that have made significant recent advances in one or more fundamental nanoscience or nanotechnology areas. Broad interests of the DOE BES and Solar Photochemistry Program addressed by this meeting include the areas of solar energy to fuels conversion, new photovoltaic systems, fundamental characterization of nanomaterials, magnetism, catalysis, and quantum physics. The vast majority of speakers and attendees will address either directly the topic of nanotechnology for photoinduced charge transfer, charge transport, and catalysis, or will have made significant contributions to related areas that will impact these fields indirectly. These topics have direct relevance to the mission of the DOE BES since it is this cutting-edge basic science that underpins our energy future.

Clusters, Nanocrystals & Nanostructures

From Fundamental Chemical and Physical Processes to Applications

August 4-9, 2013
Mount Holyoke College
South Hadley, MA

Chairs: Todd D. Krauss & Simon A. Brown
Vice Chairs: Wolfgang Harbich & Emily A. Weiss

Contributors



SUNDAY

2:00 pm - 9:00 pm	Arrival and Check-in
6:00 pm	Dinner
7:30 pm - 7:40 pm	Welcome / Introductory Comments by GRC Site Staff
7:40 pm - 9:30 pm	Keynote Presentations: Graphene and Government Policy
7:40 pm - 7:45 pm	Discussion Leader: Emily Weiss (Northwestern University)
7:45 pm - 8:25 pm	Paul McEuen (Cornell University) "Graphene at the Boundaries"
8:25 pm - 8:40 pm	Discussion
8:40 pm - 9:15 pm	Kristen Kulinowski (IDA Science and Technology Policy Institute) "Nanomaterials and Government Policy"
9:15 pm - 9:30 pm	Discussion

MONDAY

7:30 am - 8:30 am	Breakfast
8:45 am	Group Photo
9:00 am - 12:30 pm	Novel Syntheses and Integrated Structures
9:00 am - 9:10 am	Discussion Leader: Frank Wise (Cornell University)
9:10 am - 9:40 am	David Norris (ETH Zürich) "Doping Nanocrystals"
9:40 am - 9:50 am	Discussion
9:50 am - 10:20 am	Jillian Buriak (University of Alberta) "Using Block Copolymers for Self-Assembly of Nano(fill-in-the-blank)"
10:20 am - 10:30 am	Discussion
10:30 am - 11:00 am	Coffee Break
11:00 am - 11:30 am	Riccardo Ferrando (University of Genoa) "Morphological instabilities in core-shell nanoparticles"
11:30 am - 11:45 am	Discussion
11:45 am - 12:15 pm	Bill Buhro (Washington University, St. Louis) "(CdSe) ₁₃ (alkylamine) ₁₃ as a low-temperature precursor to a variety of colloidal nanocrystals having excellent optical properties"
12:15 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	<u>Poster Session</u>
6:00 pm	Dinner
7:30 pm - 9:30 pm	Fundamentals: Charge Transport, Modeling, Superconductivity
7:30 pm - 7:40 pm	Discussion Leader: Vitaly V. Kresin (University of Southern California)
7:40 pm - 8:10 pm	Cherie Kagan (University of Pennsylvania) "The Role of Surface Ligands and Doping in High Performance Colloidal Semiconductor Nanocrystal Electronics and Optoelectronics"
8:10 pm - 8:20 pm	Discussion
8:20 pm - 8:50 pm	Michael Moseler (Fraunhofer Institute for Mechanics of Materials) "Modeling of nanostructure formation via cluster deposition"
8:50 pm - 9:00 pm	Discussion
9:00 pm - 9:20 pm	Margriet Van Bael (University of Leuven - KU Leuven) "Investigation of superconductor and hybrid superconductor/magnet nanostructures by isotope specific scattering methods"
9:20 pm - 9:30 pm	Discussion

TUESDAY

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 12:30 pm **Photoinduced Chemistry and Transport, and Magnetism**
- 9:00 am - 9:10 am Discussion Leader: **Beatriz Roldán Cuenya** (University of Central Florida)
- 9:10 am - 9:40 am **Tim Lian** (Emory University)
"Electron and Hole transfer dynamics in QDs related to Solar H₂ production"
- 9:40 am - 9:50 am Discussion
- 9:50 am - 10:20 am **Ueli Heiz** (Technical University Munich)
"Chemistry and Photochemistry of size-selected Clusters"
- 10:20 am - 10:30 am Discussion
- 10:30 am - 11:05 am Coffee Break
- 11:05 am - 11:35 am **Lincoln Lauhon** (Northwestern University)
"Influence of nanowire dopants, defects, and interfaces on photocarrier generation and transport"
- 11:35 am - 11:45 am Discussion
- 11:45 am - 12:15 pm **Tobias Lau** (Helmholtz-Zentrum Berlin)
"Magnetism in Clusters"
- 12:15 pm - 12:30 pm Discussion
- 12:30 pm Lunch
- 1:30 pm - 4:00 pm Free Time
- 4:00 pm - 6:00 pm Poster Session
- 6:00 pm Dinner
- 7:30 pm - 9:30 pm **Applications: Devices**
- 7:30 pm - 7:40 pm Discussion Leader: **Amy Prieto** (Colorado State University)
- 7:40 pm - 8:10 pm **Richard Palmer** (University of Birmingham)
"Atomic structure and mass production of size-selected nanoclusters"
- 8:10 pm - 8:20 pm Discussion
- 8:20 pm - 8:50 pm **Paolo Milani** (University of Milan)
"Stretchable and biocompatible microdevices on plastics produced by supersonic cluster beam implantation"
- 8:50 pm - 9:00 pm Discussion
- 9:00 pm - 9:20 pm **Tobias Hanrath** (Cornell University)
"Lead Salt NC PV Devices"
- 9:20 pm - 9:30 pm Discussion

WEDNESDAY

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 11:40 am **Fundamentals: Doping**
- 9:00 am - 9:10 am Discussion Leader: **Bernd von Issendorff** (Universität Freiburg)
- 9:10 am - 9:40 am **Daniel Gamelin** (University of Washington)
"Dopant-Carrier Interactions in Colloidal Semiconductor Nanocrystals"
- 9:40 am - 9:55 am Discussion

9:55 am - 10:10 am	Jonathan Steckel (QD Vision Inc.) "Quantum Dot Products for LCD Displays"
10:10 am - 10:20 am	Discussion
10:20 am - 11:00 am	Coffee Break
11:00 am - 11:30 am	Uri Banin (Hebrew University Jerusalem) "Heavily doped semiconductor nanocrystals"
11:30 am - 11:40 am	Discussion
11:40 am - 12:30 pm	Young Investigator Presentations Discussion Leader: Bernd von Issendorff (Universität Freiburg)
11:40 am - 11:55 am	Daniela Rupp (Technical University Berlin) "Ultrafast dynamics of single clusters in soft x-ray FEL-pulses"
11:55 am - 12:05 pm	Discussion
12:05 pm - 12:20 pm	Prashant Jain (University of Illinois)
12:20 pm - 12:30 pm	Discussion
12:30 pm	Lunch
1:30 pm - 4:00 pm	Free Time
4:00 pm - 6:00 pm	<u>Poster Session</u>
6:00 pm	Dinner
7:00 pm - 7:30 pm	<u>Business Meeting</u> <i>Nominations for the next Vice Chair; Fill out Conference Evaluation Forms; Discuss future Site & Scheduling preferences; Election of the next Vice Chair</i>
7:30 pm - 9:30 pm	MEG and Energy Redux
7:30 pm - 7:40 pm	Discussion Leader: Efrat Lifshitz (Russell Berrie Nanotechnology Institute)
7:40 pm - 8:10 pm	Matthew Beard (National Renewable Energy Laboratory) "Progress towards third generation solar energy conversion: Can quantum dot solar cells exceed the Shockley-Queisser Limit?"
8:10 pm - 8:20 pm	Discussion
8:20 pm - 8:45 pm	Chrisotophe Delarue (Centre National de la Recherche Scientifique) "Dirac fermions and topological phases in honeycomb superlattices of semiconductor nanocrystals"
8:45 pm - 8:55 pm	Discussion
8:55 pm - 9:20 pm	Laurens D.A. Siebbeles (Technical University Delft) "Multiple exciton generation and dynamics in semiconductor nanoparticles: effects of shape and particle coupling)
9:20 pm - 9:30 pm	Discussion

THURSDAY

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm **Fundamentals: Spectroscopy and Photonics**

9:00 am - 9:10 am Discussion Leader: **Patanjali Kambhampati** (McGill University)

9:10 am - 9:40 am **Xiaoyang Zhu** (University of Texas at Austin)
"Hot electron relaxation and transfer in inorganic QDs and graphene nano materials"

9:40 am - 9:50 am Discussion

9:50 am - 10:20 am **Philippe Dugourd** (Centre National de la Recherche Scientifique Lyon)
"Manipulating and fragmentating single nanoparticles in the gas phase"

10:20 am - 10:30 am Discussion

10:30 am - 11:05 am Coffee Break

11:05 am - 11:35 am **Jennifer S. Martinez** (Los Alamos National Laboratory)
"Synthesis, Characterization and Biological detection of fluorescent silver nanoclusters"

11:35 am - 11:45 am Discussion

11:45 am - 12:15 pm **Paul Mulvaney** (University of Melbourne)
"Nanocrystal - Exciton Harvesting in Thin Films and Solar cells"

12:15 pm - 12:30 pm Discussion

12:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session

6:00 pm Dinner

7:30 pm - 9:30 pm **Keynote Presentations: Nanoclusters, Artificial Atoms, and Nanostructures**

7:30 pm - 7:40 pm Discussion Leader: **Wolfgang Harbich** (Ecole Polytechnique Federale de Lausanne)

7:40 pm - 8:20 pm **Chad Mirkin** (Northwestern University)
"'Artificial Atom' Formed from Nucleic Acid-Nanoparticle Conjugates"

8:20 pm - 8:35 pm Discussion

8:35 pm - 9:15 pm **Uzi Landman** (Georgia Institute of Technology)
"Charge and charging effects in clusters"

9:15 pm - 9:30 pm Discussion

FRIDAY

7:30 am - 8:30 am Breakfast

9:00 am Departure

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