



# IGERT

Nanotechnology for  
Clean Energy

## THIRD ANNUAL SYMPOSIUM - AGENDA

9:00 am – 5:00 pm, Thursday, September 20<sup>th</sup>, 2012  
Fiber Optics Auditorium, Busch Campus, Rutgers University  
Registration is **FREE** but essential as space is limited.  
Register at [www.energyIGERT.rutgers.edu](http://www.energyIGERT.rutgers.edu).

- 8:30 COFFEE and BREAKFAST
- 8:55 Welcome – Prof. Manish Chhowalla  
Director, Nanotechnology for Clean Energy IGERT Program, Rutgers University
- 9:00 INTRODUCTION – Prof. Paul Falkowski  
Founding Director, Rutgers Energy Institute, Rutgers University
- 9:15 Mark E. Roberts – **Redox Electrodes Comprised of Polymer-modified Carbon Nanomaterials**  
Department of Chemical and Biomolecular Engineering, Clemson University
- 10:00 David S. Ginley – **The Terawatt Challenge: PV at Scale**  
Research Fellow/Group Manager, National Renewable Energy Laboratory
- 11:00 MORNING BREAK
- 11:15 G. Charles Dismukes – **Solar Fuels: Energy Conversion & Storage Technologies for Water and CO<sub>2</sub> Catalysis**  
Department of Chemistry and Chemical Biology, Rutgers University
- 12:00 Rut Rivera-Beltran – **Multiferroic BiFeO<sub>3</sub> Nanofibers and Thin Films**  
IGERT Trainee, Materials Science and Engineering, Rutgers University
- 12:15 LUNCH AND POSTER SESSION
- 2:00 Martin Green – **Materials for Sustainable Development**  
Group Leader, Functional Properties Group, National Institute of Science and Technology
- 3:00 Ryan Thorpe – **Conversion Reaction of FeF<sub>2</sub> and CoO Thin Films Exposed to Atomic Li**  
IGERT Trainee, Department of Physics and Astronomy, Rutgers University
- 3:15 BREAK AND POSTER SESSION
- 3:30 Mona Zebarjadi – **Thermoelectric Power Generators as a Renewable Energy Converter Device**  
Department of Mechanical and Aerospace Engineering, Rutgers University
- 4:15 Eric Gauthier – **Multiphase Flow in Polymer Electrolyte Membrane Fuel Cells**  
IGERT Trainee, Department of Chemical and Biological Engineering, Princeton University
- 4:30 POSTER AWARDS & CLOSING REMARKS