EMERSON CENTER LECTURESHIP AWARD SYMPOSIUM

Computation and Energy: Search for Renewable and Sustainable Energy



Co-sponsored by the Computational & Life Sciences Strategic Initiative, and Center for Comprehensive Informatics, Emory University

March 2, 2009 Harland Cinema, Dobbs University Center, Emory University

AWARD WINNER & KEYNOTE SPEAKER

Daniel G. Nocera, Massachusetts Institute of Technology



Powering the Planet: The Challenge for Science in the 21st Century

The supply of secure, clean, sustainable energy is arguably the most important scientific and technical challenge facing humanity in the 21st century. Rising living standards of a growing world population will cause global energy consumption to increase dramatically over the next half century. However, deleterious consequences resulting from external drivers of economy, the environment, and global security dictate that this energy need be met by renewable and sustainable sources. This talk will place the scale of the global energy issue in perspective and then discuss how artificial photosynthesis to power our planet might be achieved.

INVITED SPEAKERS		EVENTS SCHEDULE	
	Jean-Luc Bredas School of Chemistry & Biochemistry, Georgia Institute of Technology	9:00 – 9:20	OPENING CEREMONY & AWARD PRESENTATION
		9:20 – 10:20	Daniel G. Nocera : Powering the Planet: The Challenge for Science in the 21 st Century
	David Beratan Department of Chemistry, Duke University	10:20–11:20	Jean-Luc Bredas : Interfacial Electronic Properties in Functional Organic Materials for Energy Conversion
		11:20 -1: 00	POSTER SESSION
		1:00 - 2:00	LUNCH
	David Sholl School of Chemical & Biomolecular Engineering, Georgia Institute of Technology	2:30 – 3:30	David Beratan : Electron Tunneling, Thermal Fluctuation, and Molecular Design
		3:30 – 4:30	David Sholl : Using Atomically-Detailed Computations to Accelerate Materials Screening For Energy Applications
		4:30 - 4:50	COFFEE BREAK
	Craig Hill Department of	4:50 – 5:50	Craig Hill: Stable Molecular Water Oxidation and other Catalysts Central to Energy and Materials Research
	Chemistry, Emory	5:50	CLOSING
	University	6:30 – 8:00	DINNER (by invitation)

REGISTRATION

Registration is free. Please register at:

www.emerson.emory.edu/conferences



CONTACT INFORMATION

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Abstracts of talks are available online