

3-4 juni, 2010

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THE ROYAL SWEDISH ACADEMY OF SCIENCES

MOLECULAR FRONTIERS SYMPOSIUM 2010

Alternative Energy & Molecules

June 3

- 9.00 Opening of Symposium by the Secretary General *Gunnar Öquist*
- 9.10 Using Light to Activate Molecules on Surfaces - *Marye Anne Fox, UCSD*
- 10.00 Coffee break
- 10.30 Ultrafast photoinduced electron transfer as a route to high efficiency solar cells
Alan Heeger, UCSB
- 11.20 Semi-conducting polymers as basis of organic solar cells - *Richard Friend, Cambridge*
- 12.10 Lunch break
- 13.30 Announcement of the 2010 winners of Molecular Frontiers Inquiry Prize"
Open discussion about future prospects of Molecular Frontiers.
- 14.20 Energy and photosynthesis: natural and artificial capture and conversion of sunlight
for production of solar fuels - *Nathan Lewis, Caltech*
- 15.10 Coffee break
- 15.40 Energy and photosynthesis: catalysts for production of hydrogen - *Daniel Nocera MIT*
- 16.30 Beyond Oil and Gas: The Methanol Economy by Recycling of Carbon Dioxide
Surya Prakash, UCS

June 4

- 9.00 Water splitting: Learning from Nature - *James Barber, Imperial College*
- 9.50 New materials for organic solar cells - *Tobin Marks, Northwestern Univ.*
- 10.40 Impact of Nanotechnology on Alternative Energy - *Paul Alivisatos, Berkeley*
- 11.30 Novel energy attributes of graphene and carbon nanotubes - *C.N.R. Rao, Jawaharlal
Nehru Centre*
- 12.10 Lunch break
- 13.30 Youth Forum
- 14.50 Coffee break
- 15.10 Panel Discussion
- 16.00 End of symposium

Registration now open at www.kva.se
For more information, contact helena.ledmyr@kva.se

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