

30–31 MAY 2008

THE ROYAL SWEDISH ACADEMY OF SCIENCES, STOCKHOLM, SWEDEN

Molecular Frontiers Symposium and Youth Forum

*A Multidisciplinary Workshop:
Energy and Nano: Emerging Molecular Science & Technology*

Venue: The Royal Swedish Academy of Sciences, Lilla Frescativ. 4A Stockholm, Sweden

30 MAY

FRIDAY MORNING SESSION – Chair: Bengt Nordén

- 9.00 – 9.05 Welcoming Remarks Gunnar Öquist
9.05 – 9.55 Progress of Chinese Science and Technology *Chunli Bai*
9.55 – 10.20 Coffee break
10.20 – 11.10 Novel Chemistry with Nanomaterials *C. N. R. Rao*
11.10 – 12.00 Single-site Nanoporous Solids: The Confluence of Heterogeneous and Homogeneous Catalysis *John M. Thomas*
12.00 – 13.00 Lunch break

FRIDAY AFTERNOON SESSION – Chair: Richard Zare

- 13.00 – 13.30 Announcement of the laureates of Molecular Frontiers' Inquiry Prize
Open discussion about future prospects for Molecular Frontiers. *R. Zare*
13.30 – 14.20 Engineered Zinc Finger Proteins for Targeted Intervention in Gene Regulation in Biotechnology and Therapeutics *A. Klug*
14.20 – 15.10 Nanoporous Capsules: Aesthetics and Multifunctionality in Harmony *A. Mueller*
15.10 – 15.40 Coffee break
15.40 – 16.30 Nanocrystalline Solar Cells for the 21st Century *M. Graetzel*
16.30 – 17.20 Phonons and Heat Flow in Nanowires, with Applications to Energy Harvesting and Conversion *J. Heath*
17.20 – 18.00 Concluding remarks

31 MAY

SATURDAY MORNING SESSION – Chair: Magdalena Eriksson

- 10.00 – 10.30 Coffee
10.30 – 11.20 Tug-of-War Collisional Dynamics *R. Zare*
11.20 – 12.20 DNA: Not Merely the Secret of Life *N. Seeman*
12.30 – 13.30 Lunch break

SATURDAY AFTERNOON SESSION – Chair: Richard Zare

- 13.30 – 14.20 Nanotechnology: Slouching toward Function *G. Whitesides*
14.20 – 14.40 Break with fruit and water
14.40 – 16.00 YOUTH FORUM and Panel discussion

Free admission but please register at www.kva.se (under "What's new" / "Events") no later than 23 May, 2008. Participants are asked to make their own lunch arrangements.

Welcome!

MOLECULAR  FRONTIERS

 MoleClues



KUNGL.
VETENSKAPSAKADEMIEN
THE ROYAL SWEDISH ACADEMY OF SCIENCES

Box 50005, SE-104 05 Stockholm
Phone: +46-8-673 95 00, Fax: +46-8-15 56 70
info@kva.se, www.kva.se

Lilla Frescativägen 4A
Underground: Station Universitetet
Bus 40, 70: Universitetet norra

www.kva.se