Molecular Frontiers Symposium and Youth Forum

How chemical cycles shape our planet – the global challenge

Date: 29–30 May 2012

Tuesday 29 May

09:00 Opening address
Barbara Cannon
President Elect of the Royal Swedish Academy of Sciences
Bengt Nordén
Chairman of the Molecular Frontiers Foundation

09:10 Myths and facts of a converging world
Hans Rosling
Karolinska Institutet, Sweden

10:00 Coffee break

10:20 Can selective catalysts deliver clean technology and sustainability?
Sir John Meurig Thomas
Cambridge University, UK

11:10 A multidimensional index of greenness, with the entropy added to the universe as only one parameter
Roald Hoffmann
Nobel Laureate in chemistry 1981

12:00 Lunch (on your own)

13:10 Cooperation for sustainable development in the changing world
Chunli Bai
President of the Chinese Academy of Sciences

14:00 Biological design by evolution
Frances Arnold
California Institute of Technology, CA, USA

14:50 Coffee break

15:10 Nanoscience – potentials and threats
Paul Alivisatos
Head of Lawrence Berkely Laboratory, CA, USA

16:00 General discussion, youth forum & announcement of Molecular Frontiers Inquiry
Prize Winners
Moderator: Richard Zare, Stanford University, CA, USA

Wednesday 30 May

09:10 The climate change crisis - its solution must also involve changing people’s
behaviour through global education
Harry Kroto
Nobel Laureate in chemistry 1996

09:40 Coffee break

10:10 Synthetic biology towards biofuels
Jay D Keasling
The Joint BioEnergy Institute, Berkeley, CA, USA

11:00 Climate forecast - why and how? The most pressing problems
Jim Anderson
Harvard University, MA, USA

11:50 Lunch (on your own)

13:10 Panel Discussion: The Global Challenge
Moderator: Richard Zare, Stanford University, CA, USA

15:00 Coffee break

15:20 Concluding talk and discussion

16:15 End of symposium

The symposium is free of charge and open to the public but registration is required for all

Public transportation:
Underground: Station Universitetet
[the Red line towards Mörby Centrum]
Bus: 40, 70 [stop Universitetet norra]