

SUSTAINABLE ENERGY

Chalmers Conference Centre, Dec 6-8 2017*

* Dec 6 only Chalmers Initiative seminar

Program

Thursday, Dec 7

08.30 - 09.00 Registration

09.00 - 09.15 *Welcome address*

Stefan Bengtsson, President of Chalmers University of Technology
Bengt Nordén, Chair, Molecular Frontiers

09.15 - 09.30 *About Molecular Frontiers*

Per Thorén, COO, Molecular Frontiers

Chair: Bengt Nordén

09.30 - 10.00

Climate Change and innovative paths to a sustainable future

Steven Chu, Nobel laureate in Physics 1997, former United States Secretary of Energy.
Stanford University, United States

10.00 - 10.30

How do we transition an entire country's energy system to renewables?

Katherine Richardson, University of Copenhagen, Denmark

10.30 - 11.00 Coffee break

11.00 - 11.30 Q&A with Prof Chu and Prof Richardson

Chair: Patrik Johansson

11.30 - 12.00

Materials science for electrochemical storage: Achievements and new directions.

Jean-Marie Tarascon, Collège de France, France

12.00 - 13.15 Lunch break

13.15 - 13.45

Electric vehicles in a sustainable energy system

Dame Julia King, The Baroness Brown of Cambridge DBE

13.45 - 14.15 Q&A with Prof Tarascon and Dame King

Chair: Bo Albinsson

14.15 - 14.45

How can molecules function as semiconductors?

Sir Richard Friend, University of Cambridge, United Kingdom

- 14.45 - 15.15 Coffee break
- 15.15 - 15.45 *Quantum Dot Light Emitters: from displays to enabling a new generation of energy conversion systems*
Paul Alivisatos, University of California, Berkeley, United States
- 15.45 - 16.15 Q&A with Prof Friend and Prof Alivisatos
- 16.15 - Photo session

Friday, Dec 8

Chair: Maria Abrahamsson

- 09.00 - 09.30 *Singlet Fission for Solar Cells*
Josef Michl, University of Colorado Boulder, United States and Institute of Organic Chemistry and Biochemistry Academy of Sciences of the Czech Republic, Czech Republic
- 09.30 - 10.00 *Thin film solar cells – achievements and challenges*
Susanne Siebentritt, University of Luxembourg, Luxembourg
- 10.00 - 10.30 Q&A with Prof Michl and Prof Siebentritt
- 10.30 - 11.00 Coffee break
- Chair: Anders Palmqvist
- 11.00 - 11.30 *Fuels and Food from Sunlight, Air and Water*
Daniel G. Nocera, Harvard University, United States
- 11.30 - 12.00 *Fueling Human Progress with Sunlight*
Harry Atwater, California Institute of Technology, United States
- 12.00 - 12.30 Q&A with Prof Nocera and Prof Atwater
- 12.30 - 13.30 Lunch break
- 13.30 - 15.30 Panel discussion
Chair: Lorie Karnath
- 15.30 - 15.45 *Concluding remarks*