

# Molecular Frontiers Symposium "Sustainable Energy"

## Thursday, Dec 7

08.30 - 09.00 Registration

09.00 - 09.15 *Welcome address*

**Stefan Bengtsson**, President of Chalmers University of Technology

09.15 - 09.30 *About Molecular Frontiers*

**Dina Petranovic** (CEO) and **Per Thorén** (COO), Molecular Frontiers Foundation

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

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 Lady King

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

17.00 - 19.00 For high school students: Dinner and evening activity, organized by Chalmers students

## Friday, Dec 8 (Plenary session and Molecular Frontiers Symposium)

- 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
- 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
- 15.30 - 15.45 *Concluding remarks*