CHALMERS INITIATIVE SEMINAR AND MOLECULAR FRONTIERS SYMPOSIUM

SUSTAINABLE ENERGY

Chalmers Conference Centre, Dec 6-8 2017

Program

Wednesday, Dec 6

Chalmers Initiative Seminar
Academic session with invited speakers

08.30 - 09.00	Registration
09.00 - 09.10	*Welcome address*
	Chair: Bo Albinson
09.10 - 09.40	*The energy business in transition goes local, green and digital* **Peter Sigenstam ,** E.ON
09.40 - 10.10	*Challenges in Research and Application for Next Generation Automotive Batteries* **Frederik Morgenstern,** BMW AG
10.10 - 10.30	Coffee break
	Chair: Aleksandar Matic
10.30 - 11.00	*Next Generation Batteries - Why and How?* **Patrik Johansson,** Chalmers University of Technology
11.00 - 11.30	*Post-Li-ion batteries: promises and challenges* **Rosa Palacin,** Institut de Ciència de Materials de Barcelona
11.30 - 12.00	*Developing the world's greenest Lithium battery in Sweden* **Marie Strannegård,** Northvolt
12.00 - 13.00	Lunch break
	Chair: Maria Grahn
13.00 - 13.30	*Ionic Liquids - Smart Tools for Sustainable Energy Applications* **Anja-Verena Mudring,** Stockholm University/University of Alabama
13.30 - 14.00	*Solar Fuels: Solar Energy Conversion by Artificial Photosynthesis* **Leif Hammarström,** Uppsala University
14.00 - 14.30	*Energy and charge transfer in molecular materials for solar energy conversion* **Maria Abrahamsson,** Chalmers University of Technology
14.30 - 14.50	Coffee break

Chair: Bo Albinsson

14.50 - 15.20	*Thin film solar cells with high efficiencies for new applications* **Marika Edoff,** Uppsala University
15.20 - 15.50	*Polyethylene Blends, a Material Concept for HVDC Power Cable Insulation* **Christian Müller,** Chalmers University of Technology (to be confirmed)
15.50 - 16.20	*Structure formation in thin films for efficient and stable polymer solar cells* **Ellen Moons,** Karlstad University
16.20 - 16.50	*We Exist to Power Climate Smarter Living* **Andreas Regnell,** Vattenfall AB
16.50 - 18.30	Poster session with refreshments

Thursday, Dec 7

Chalmers Initiative Seminar and Molecular Frontiers Symposium
Plenary session

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

Chalmers Initiative Seminar and Molecular Frontiers Symposium

Plenary session

	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*