

"Building and Probing Small"

Programme

Monday March 25, 2019

- 09:00** **Registration**
- 10:30** **Welcome Address**
- 10:35** **PL01 - Building Small: Making the Tiniest Machines**
Prof. David LEIGH
(UNIVERSITY OF MANCHESTER, Manchester, United Kingdom)
- 11:30** **KL01 - Artificial Molecular Machines that Work at all Scales**
Prof. Nicolas GIUSEPPONE
(UNIVERSITY OF STRASBOURG, Strasbourg, France)
- 12:00** **OC01 - to be selected from the submitted abstracts**
- 12:20** **Lunch**
- 14:00** **KL02 - The Challenges and Opportunities of Polymer Mechanochemistry**
Prof. Roman BOULATOV
(UNIVERSITY OF LIVERPOOL, Liverpool, United Kingdom)
- 14:30** **OC02 - to be selected from the submitted abstracts**
- 14:50** **OC03 - to be selected from the submitted abstracts**
- 15:10** **KL03 - Molecular Motors Steering Macroscopic Motion**
Prof. Nathalie KATSONIS
(UNIVERSITY OF TWENTE, Enschede, The Netherlands)
- 15:40** **Coffee break**
- 16:10** **PL02 - Radical Chemistry**
Prof. J. Fraser STODDART
(NORTHWESTERN UNIVERSITY, Evanston, United States)
- 17:05** **OC04 - to be selected from the submitted abstracts**
- 17:25** **OC05 - to be selected from the submitted abstracts**

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Tuesday March 26, 2019

- 09:00 PL03 - Single Molecule Mechanics of Proteins**
Prof. Matthias RIEF
(TECHNISCHE UNIVERSITÄT MÜNCHEN, München, Germany)
- 09:55 KL04 - Deconstructing the Molecular Mechanism of Extreme Mechanostability in Pathogen Adhesins**
Mr Lukas MILLES
(LUDWIG-MAXIMILIANS-UNIVERSITÄT, München, Germany)
- 10:25 OC06 - to be selected from the submitted abstracts**
- 10:45 Coffee break**
- 11:15 KL05 - Light-Driven Nanomachinery**
Prof. Stefan HECHT
(HUMBOLDT-UNIVERSITÄT ZU BERLIN, Berlin, Germany)
- 11:45 OC07 - to be selected from the submitted abstracts**
- 12:05 KL06 - Manipulation of Single Molecules: Wires, Switches and Motors**
Prof. Leonhard GRILL
(UNIVERSITY OF GRAZ, Graz, Austria)
- 12:35 Lunch**
- 14:00 PL04 - Quantitative Studies of Single Molecule Mechanochemistry**
Prof. Stephen CRAIG
(DUKE UNIVERSITY, Durham, United States)
- 14:55 KL07 - Mechanochemistry of the Mechanical Bond**
Dr Guillaume DE BO
(UNIVERSITY OF MANCHESTER, Manchester, United Kingdom)
- 15:25 OC08 - to be selected from the submitted abstracts**
- 15:45 Coffee break**
- 16:15 Poster session**
- 17:15 KL08 - Chemistry Inside the Cavities of Flexible Metal-Organic Cages**
Prof. Rafal KLAJN
(WEIZMANN INSTITUTE OF SCIENCE, Rehovot, Israel)
- 17:45 KL09 - Functionalization of 2D Materials: A Molecular Approach**
Prof. Steven DE FEYTER
(KU LEUVEN, Leuven, Belgium)

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Wednesday March 27, 2019

- 09:00 PL05 - Mechanical Engineering of Protein-Based Biomaterials: from Single Molecule to Biomaterials**
Prof. Hongbin LI
(UNIVERSITY OF BRITISH COLUMBIA, Vancouver, Canada)
- 09:55 KL10 - Force Spectroscopy and High-Speed Bio-AFM Reveal Dynamic and Nano-Mechanical Properties of Antibodies**
Prof. Peter HINTERDORFER
(JOHANNES KEPLER UNIVERSITY LINZ, Linz, Austria)
- 10:25 OC09 - to be selected from the submitted abstracts**
- 10:45 Coffee break**
- 11:15 KL11 - Nanomechanical Mapping of Virus Binding Sites to Animal Cells**
Prof. David ALSTEENS
(UCLOUVAIN, Louvain-La-Neuve, Belgium)
- 11:45 OC10 - to be selected from the submitted abstracts**
- 12:05 OC11 - to be selected from the submitted abstracts**
- 12:25 Closing address**