

# "Building and Probing Small"

## Confirmed speakers to date

### Plenary Speakers

#### PL04 - Quantitative Studies of Single Molecule Mechanochemistry



Prof. Stephen CRAIG  
(DUKE UNIVERSITY, Durham, United States)

#### PL01 - Building Small: Making the Tiniest Machines



Prof. David LEIGH  
(UNIVERSITY OF MANCHESTER, Manchester, United Kingdom)

#### PL05 - Mechanical Engineering of Protein-Based Biomaterials: from Single Molecule to Biomaterials



Prof. Hongbin LI  
(UNIVERSITY OF BRITISH COLUMBIA, Vancouver, Canada)

#### PL03 - Single Molecule Mechanics of Proteins



Prof. Matthias RIEF  
(TECHNISCHE UNIVERSITÄT MÜNCHEN, München, Germany)

#### PL02 - Radical Chemistry



Prof. J. Fraser STODDART  
(NORTHWESTERN UNIVERSITY, Evanston, United States)

### Keynote Speakers

#### KL11 - Nanomechanical Mapping of Virus Binding Sites to Animal Cells



Prof. David ALSTEENS  
(UCLOUVAIN, Louvain-La-Neuve, Belgium)

#### KL02 - The Challenges and Opportunities of Polymer Mechanochemistry



Prof. Roman BOULATOV  
(UNIVERSITY OF LIVERPOOL, Liverpool, United Kingdom)

#### KL07 - Mechanochemistry of the Mechanical Bond



Dr Guillaume DE BO  
(UNIVERSITY OF MANCHESTER, Manchester, United Kingdom)

#### KL09 - Functionalization of 2D Materials: A Molecular Approach

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Prof. Steven DE FEYTER  
(KU LEUVEN, Leuven, Belgium)

### KL01 - Artificial Molecular Machines that Work at all Scales



Prof. Nicolas GIUSEPPONE  
(UNIVERSITY OF STRASBOURG, Strasbourg, France)

### KL06 - Manipulation of Single Molecules: Wires, Switches and Motors



Prof. Leonhard GRILL  
(UNIVERSITY OF GRAZ, Graz, Austria)

### KL05 - Light-Driven Nanomachinery



Prof. Stefan HECHT  
(HUMBOLDT-UNIVERSITÄT ZU BERLIN, Berlin, Germany)

### 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)

### KL03 - Molecular Motors Steering Macroscopic Motion



Prof. Nathalie KATSONIS  
(UNIVERSITY OF TWENTE, Enschede, The Netherlands)

### KL08 - Chemistry Inside the Cavities of Flexible Metal-Organic Cages



Prof. Rafal KLAJN  
(WEIZMANN INSTITUTE OF SCIENCE, Klosterneuburg, Austria)

### KL04 - Deconstructing the Molecular Mechanism of Extreme Mechanostability in Pathogen Adhesins



Mr Lukas MILLES  
(LUDWIG-MAXIMILIANS-UNIVERSITÄT, München, Germany)

## Oral Communications

### OC08 - Probing PH-Switchable Enzymatic Nanoreactors by Light-Driven Proton Transfer



Dr Dietmar APPELHANS  
(LEIBNIZ-INSTITUT FÜR POLYMERFORSCHUNG DRESDEN E.V., Dresden, Germany)

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(BIOIB,RICA)

### OC09 - Oscillating Emission of [2]Rotaxane Driven by Chemical Fuel



Mr Amit GHOSH  
(UNIVERSITY OF SIEGEN, Siegen, Germany)

### OC03 - Dynamics of Individual Molecular Shuttles Under Mechanical Force



Dr Borja IBARRA  
(IMDEA NANOCIENCIA, Madrid, Spain)

### OC06 - Design and Synthesis of Rotary Molecular Machines for On-Surface Mechanical Studies



Dr Claire KAMMERER  
(CEMES-CNRS, UNIVERSITÉ DE TOULOUSE, TOULOUSE cedex 4, France)

### OC02 - Self-Assembly of Palladium(II)-Templated Covalent Macrocycles, Cages and Larger Structures



Dr Roy LAVENDOMME  
(UNIVERSITY OF CAMBRIDGE, Cambridge, United Kingdom)

### OC11 - Probing the Viscoelastic Properties of Polymeric Materials at the Nanoscale



Prof. Philippe LECLERE  
(UMONS, Mons, Belgium)

### OC10 - Versatile Tools Towards Real-Time, Single-Molecule Biology



Dr Aida LLAURO PORTELL  
(LUMICKS, Amsterdam, The Netherlands)

### OC05 - Prototypes of Molecular Motors Based on Ruthenium(II) and Europium(III) Complexes



Prof. Gwenaël RAPENNE  
(NANOSCIENCES GROUP CEMES, TOULOUSE CEDEX 4, France)

### OC01 - Multicomponent Catalytic Machinery: How the Machine Speed Impacts Catalytic Activity



Prof. Michael SCHMITTEL  
(UNIVERSITY OF SIEGEN, Siegen, Germany)

### OC07 - Photoswitching DNA-Templated Supramolecular Assemblies

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Prof. Mathieu SURIN  
(UNIVERSITY OF MONS - UMONS, Mons, Belgium)

### **OC12 - Self-Assembly and Reactivity in Nanoscale Corrals on Graphite**



Mr Lander VERSTRAETE  
(KU LEUVEN, Leuven, Belgium)

### **OC04 - Probing the Implications of Knot Tightness on Molecular Level**



Dr Liang ZHANG  
(UNIVERSITY OF MANCHESTER, Manchester, United Kingdom)