



# Molecular Rotor Workshop

PRAGUE, CZECH REPUBLIC  
NOVEMBER 21 – 22, 2019

ORGANIZER: JIŘÍ KALETA (jiri.kaleta@uochb.cas.cz)  
WWW: [www.uochb.cz/mrw2019](http://www.uochb.cz/mrw2019)

## Thursday 11/21/19

Chairman: Jiří KALETA

9:00 – 9:10 *Conference Opening*

9:10 – 10:00 **Fraser STODDART**

The Growing Impact of the Mechanical Bond on  
Polymer and Materials Sciences  
Molecular Turnstiles

10:00 – 10:50 **Mir Wais HOSSEINI**

10:50 – 11:40 *Coffee Break + Poster Session*

11:40 – 12:30 **Angiolina COMOTTI**

Rotor and Gas Dynamics in Porous Materials

12:30 – 14:00 *Lunch Break*

14:00 – 14:50 **Charles ROGERS**

Chairwoman: **Angiolina COMOTTI**  
Thin Film TPP-Rotor Inclusion Materials  
Inclusions of Dipolar Rotors in TPP

14:50 – 15:40 **Josef MICHL**

15:40 – 16:20 *Coffee Break + Poster Session*

16:20 – 17:10 **Rainer HERGES**

Molecular Rotors on Surfaces and in SURMOFs  
Chemistry of Molecular Gyrotops

17:10 – 18:00 **Wataru SETAKA**

## Friday 11/22/19

Chairman: Josef MICHL

9:00 – 9:50 **Ben FERINGA**

Exploring Rotary Molecular Motors

9:50 – 10:40 **Miguel GARCIA-GARIBAY**

Crystalline Molecular Gears: Correlated Rotations  
by Mechanic and Dipolar Forces

10:40 – 11:20 *Coffee Break + Poster Session*

11:20 – 12:10 **Jiří KALETA**

Molecular Machines in 2D Assemblies

12:10 – 13:40 *Lunch Break*

13:40 – 14:30 **Alberto CREDI**

Chairman: **Rainer HERGES**

Molecular Switches, Machines and Motors Based on  
Rotaxanes

14:30 – 15:20 **Ivan APRAHAMIAN**

Hydrazone-Based Switches and Functional Materials

15:20 – 16:10 *Coffee Break + Poster Session*

16:10 – 17:00 **Patrick BATAIL**

Materials Chemistry and Physics of Crystalline  
Rotors

17:00 – 17:50 **Michael SCHMITTEL**

Stand-alone and Networked Multicomponent  
Catalytic Machinery: From Fundamental Aspects of  
Catalysis to Information Processing in Rotating  
Systems

17:50 – 18:00 *Closing Remarks*



# Molecular Rotor Workshop

PRAGUE, CZECH REPUBLIC  
NOVEMBER 21 – 22, 2019

ORGANIZER: JIŘÍ KALETA (jiri.kaleta@uochb.cas.cz)  
WWW: [www.uochb.cz/mrw2019](http://www.uochb.cz/mrw2019)



# Molecular Rotor Workshop

PRAGUE, CZECH REPUBLIC  
NOVEMBER 21 – 22, 2019

ORGANIZER: JIŘÍ KALETA (jiri.kaleta@uochb.cas.cz)  
WWW: [www.uochb.cz/mrw2019](http://www.uochb.cz/mrw2019)

## POSTERS

**Guillaume BASTIEN &  
Carina SANTOS HURTADO**

Surface Inclusions of Molecular Switches

**Abir GOSWAMI &  
Indrajit PAUL**

Multicomponent Rotors: Playing with Hydrogen Bonding,  
Fluxional Axes and Negative Allostery

**Sebastian HAMER**

Dipolar Molecular Rotors in SURMOFs

**Václav HOUSKA**

Macrocyclic Assembly on Graphite: AFM and Molecular  
Dynamics

**Marcus JELLEN**

Template-Directed Synthesis of Macrocyclic Molecular  
Spur Gears Utilizing Gold-Phosphorus Coordination  
Chemistry

**Jindřich NEJEDLÝ**

Single-Molecule Conductivity of [19]Helicene and its  
Synthesis

**Zbigniew PIANOWSKI**

Photochromic Peptides for Visible-Light-Triggered  
Hydrogels and Beyond

**Igor RONČEVIĆ**

Achieving Dense, Strongly-Bound Regular Triptycene-  
Based Arrays on Gold

**Nachimuthu SANTHANAMOORTHY** Design Strategies for Light Driven Molecular Rotors:  
Effects of Substitutions and External Electric Field

**Lukáš SEVERA**

Synthesis of Molecular Switches for Self-Assembly on  
Surfaces

**Stefan THUMSER**

Hemiindigo a Forgotten Chromophore - Highly Bistable  
Photoswitching in the Red Part of the Visible Spectrum

**Edgar UHL**

Integrated Hemithioindigo Based Molecular Motors -  
Transmission of Directional Motion and Potential Energy



# Molecular Rotor Workshop

PRAGUE, CZECH REPUBLIC  
NOVEMBER 21 – 22, 2019

ORGANIZER: JIŘÍ KALETA (jiri.kaleta@uochb.cas.cz)  
WWW: [www.uochb.cz/mrw2019](http://www.uochb.cz/mrw2019)