

BOSS XVII

Programme

Sunday July 3, 2022

16:00 Registration

18:00 Welcome Reception

20:00 End of the Day

Monday July 4, 2022

- 08:30 Registration**
- 09:30 Opening Ceremony**
Prof. Stéphane VINCENT (UNAMUR, Namur, Belgium)
Prof. Jieping ZHU (ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE, Lausanne, Switzerland)
- 2020 Tetrahedron Chair**
- Session Chair:**
Prof. Jieping ZHU
(ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE, Lausanne, Switzerland)
- 10:00 General Principles of Selective Catalysis**
Prof. Eric JACOBSEN
(HARVARD UNIVERSITY, Cambridge, United States)
- 11:00 Coffee break & Exhibition**
- 11:30 Asymmetric Catalysis as a Mechanistic Tool**
Prof. Eric JACOBSEN
(HARVARD UNIVERSITY, Cambridge, United States)
- 12:30 Lunch, Poster Session #1 & Exhibition**
- 13:30 Workshop: Development of Reaxys Predictive Retrosynthesis, its Use and Adoption by Chemists**
Mr Moritz HANSEN (ETH ZÜRICH, Zurich, Switzerland)
Dr Leanne MULLEN (ELSEVIER, Oxford, United Kingdom)
- 14:30 Selectivity and Generality in Enantioselective Catalysis**
Prof. Eric JACOBSEN
(HARVARD UNIVERSITY, Cambridge, United States)
- 15:30 Coffee break & Exhibition**
- 16:00 Minding Mechanistic Misfits!**
Prof. Eric JACOBSEN
(HARVARD UNIVERSITY, Cambridge, United States)
- 17:00 Belgian Beer Cocktail
Sponsored by Elsevier**
- 19:00 End of the Day**

Tuesday July 5, 2022

Session Chairs:

Prof. Gwilherm EVANO (ULB, Brussels, Belgium)
Dr Christophe GENICOT (UCB BIOPHARMA, Brussels, Belgium)

09:00 L01 - Taming Multifaceted Nickel Catalysts: An Academic Fascination

Prof. Ruben MARTIN
(INSTITUTE OF CHEMICAL RESEARCH OF CATALONIA, Tarragona, Spain)

**10:00 L02 - Difluoromethylene Transfer Reactions: New Wine from an Old Bottle
*Virtual Lecture***

Prof. Jinbo HU
(SHANGHAI INSTITUTE OF ORGANIC CHEMISTRY, Shanghai, China)

11:00 Coffee Break & Exhibition

Session Chair:

Prof. Christian STEVENS
(UGENT, Ghent, Belgium)

11:30 L03 - Complex Natural Products as a Driving Force for Discovery in Organic Chemistry

Prof. Brian STOLTZ
(CALIFORNIA INSTITUTE OF TECHNOLOGY, Pasadena, United States)

12:30 Lunch, Poster Session #2 & Exhibition

Session Chair:

Prof. Annemieke MADDER
(UGENT, Ghent, Belgium)

14:30 L04 - Designer Enzymes Featuring Abiotic Catalytic Groups for Catalysis of New-to-Nature Reactions

Prof. Gerard ROELFES
(UNIVERSITY OF GRONINGEN, Groningen, The Netherlands)

15:30 Coffee Break & Exhibition

Session Chairs:

Prof. Steve LANNERS (UNAMUR, Namur, Belgium)
Prof. Johan VAN DER EYCKEN (UGENT, Ghent, Belgium)

16:00 L05 - New Methods in Halogen-Atom Transfer

Prof. Daniele LEONORI
(RWTH AACHEN UNIVERSITY, Aachen, Germany)

17:00 L06 - Rational Design of High-performance Catalysts Based on Acid–Base Combination Chemistry

Prof. Kazuaki ISHIHARA
(NAGOYA UNIVERSITY, Nagoya, Japan)

18:00 End of the Day

Wednesday July 6, 2022

Session Chairs:

Prof. Guillaume BERIONNI (UNAMUR, Namur, Belgium)
Prof. Bert U.W. MAES (UNIVERSITY OF ANTWERP, Antwerp, Belgium)

08:30 L07 - Exploiting Conformational Control

Prof. Jonathan CLAYDEN
(UNIVERSITY OF BRISTOL, Bristol, United Kingdom)

09:30 L08 - Boron an Emergent Element in Radical Chemistry

Prof. Armido STUDER
(UNIVERSITY OF MÜNSTER, Münster, Germany)

10:30 Coffee Break & Exhibition

Session Chairs:

Prof. Jean-Christophe MONBALIU (ULIÈGE, Liège, Belgium)
(SANOFI-AVENTIS DEUTSCHLAND GMBH)
Prof. Erik VAN DER EYCKEN (KU LEUVEN, Leuven, Belgium)

11:00 L09 - Harnessing the Chemistry of Plant Natural Product Biosynthesis

Prof. Sarah E. O'CONNOR
(MAX PLANCK INSTITUTE FOR CHEMICAL ECOLOGY, Jena, Germany)

12:00 L10 - Metal- or Metal-free? Complementarity Towards the Sustainable Synthesis of Complex Molecules via C-H Functionalization

Prof. Joanna WENCEL-DELDOR
(UNIVERSITY OF STRASBOURG, Strasbourg, France)

13:00 Lunch & Exhibition

14:00 Excursions

14:30 End of the Day

Thursday July 7, 2022

Session Chairs:

Prof. Alain KRIEF (UNAMUR, Namur, Belgium)
Dr Lieven MEERPOEL (MEERPOEL DC CONSULTANCY, Belgium)

09:00 L11 - Carbenes as Powerful Transition Metal Surrogates

Prof. Guy BERTRAND
(UNIVERSITY OF CALIFORNIA, La Jolla, United States)

10:00 L12 - Digital Chemistry and Chemputation

Prof. Leroy CRONIN
(UNIVERSITY OF GLASGOW, Glasgow, United Kingdom)

11:00 Coffee Break & Exhibition

Session Chair:

Prof. Ulrich HENNECKE
(VUB, Brussels, Belgium)

**11:30 L13 - Synthesis of Zigzag Hydrocarbon Belts - An Organic Chemist's Perspective on Carbon Nanostructures
*Virtual Lecture***

Prof. Mei-Xiang WANG
(TSINGHUA UNIVERSITY, Beijing, China)

12:30 Lunch, Poster Session #3 & Exhibition

Session Chair:

Prof. Bruno LINCLAU
(UGENT, Ghent, Belgium)

14:30 L14 - Strained Rings, Hypervalent Bonds, Tethers: Reactivity Design for Synthesis

Prof. Jerome WASER
(ECOLE POLYTECHNIQUE FÉDÉRALE DE LAUSANNE, Lausanne, Switzerland)

15:30 Coffee Break & Exhibition

2020 Janssen Prize for Creativity in Organic Synthesis

Session Chair:

Dr Hilmar WEINMANN
(JANSSEN PHARMACEUTICA, Beerse, Belgium)

16:00 L15 - Simplifying Synthesis with Electricity

Prof. Phil BARAN
(THE SCRIPPS RESEARCH INSTITUTE, La Jolla, United States)

2022 Janssen Prize for Creativity in Organic Synthesis

17:00 L16 - On Discovery and Sensitivity in Catalysis

BOSS XVII

Programme

Prof. Frank GLORIUS
(UNIVERSITY OF MÜNSTER, Münster, Germany)

18:00 **Award Ceremony & Cocktail**
Sponsored by Janssen Pharmaceutica

19:30 **End of the Day**

20:30 **Symposium Banquet**

Friday July 8, 2022

Session Chair:

Dr Hilmar WEINMANN
(JANSSEN PHARMACEUTICA, Beerse, Belgium)

- 09:00 L17 - Shuttle Catalysis – A Conceptual Blueprint for Reversible Functional Group Transfer**
Prof. Bill MORANDI
(ETH ZÜRICH, Zürich, Switzerland)
- 10:00 L18 - Heterocyclic Tools to Reshape Molecules: From Novel Carboannulations to New Organic Materials**
Prof. Johan WINNE
(UGENT, Ghent, Belgium)
- 11:00 Coffee Break & Exhibition**

Session Chair:

Prof. Olivier Riant
(UC LOUVAIN, Louvain-la-Neuve, Belgium)

- 11:30 L19 - A Trip from Central to Axial and Helical Chiralities**
Prof. Jean RODRIGUEZ
(AIX-MARSEILLE UNIVERSITY, Marseille, France)
- 12:30 Closing Ceremony**
- 13:00 End of the Symposium**