

# 11th Belgian Organic Synthesis Symposium

## Programme

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**Sunday July 13, 2008**

**REGISTRATION**

The registration desk will be open

16:00 - 19:00 Sunday

08:30 - 17:00 Monday

08:30 - 17:00 Tuesday

08:30 - 14:00 Wednesday

08:30 - 17:00 Thursday

08:30 - 14:00 Friday

**WELCOME RECEPTION**

# 11th Belgian Organic Synthesis Symposium

## Programme

**Monday July 14, 2008**

**Chairman**

Prof. Léon GHOSEZ  
(IECB, Pessac, France)

**TETRAHEDRON CHAIR**

Prof. Erick M. CARREIRA  
(ETH ZÜRICH, Zürich, Switzerland)

**Opening**

**Lecture 1.**  
**Molecular Editing of Natural Products: Testing the Limits of Synthesis**

**Coffee-Break**

**Lecture 2.**  
**Small Molecule Building Blocks for Medicinal Chemistry**

**Lunch and Poster Session**

**Lecture 3.**  
**Discovery of New Functionalization Modes**

**Coffee-Break**

**Lecture 4.**  
**Asymmetric Catalysis: Juggling Design and Discovery**

**BELGIAN BEER RECEPTION**  
sponsored by Elsevier

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**Tuesday July 15, 2008**

### **Chairmen**

Prof. Bert MAES (UNIVERSITY OF ANTWERP, Antwerp, Belgium)  
Prof. Christian STEVENS (UGENT, Ghent, Belgium)  
Prof. Johan VAN DER EYCKEN (UGENT, Ghent, Belgium)

### **Asymmetric Catalysis with Chiral Lewis Bases: A New Frontier in Main Group Chemistry**

Prof. Scott E. DENMARK  
(UNIVERSITY OF ILLINOIS, Urbana, United States)

### **The Evolution of New Oxidation Reactions for Fine Chemicals Synthesis**

Prof. Justin DU BOIS  
(STANFORD UNIVERSITY, Stanford, United States)

### **Coffee-Break**

### **Biomimetic Organocatalysis: Methods and Applications**

Prof. Dieter ENDERS  
(RWTH AACHEN, Aachen, Germany)

### **Lunch and Poster Session**

### **Recent Progress in Asymmetric Two-Center Catalysis**

Prof. Masakatsu SHIBASAKI  
(UNIVERSITY OF TOKYO, Tokyo, Japan)

### **Coffee-Break**

### **Total Synthesis of Brevetoxin A**

Prof. Michael T. CRIMMINS  
(UNIVERSITY OF NORTH CAROLINA, Chapel Hill, United States)

### **Catalytic Organometallic Carbon-Heteroatom Bond Formation**

Prof. John F. HARTWIG  
(UNIVERSITY OF ILLINOIS, Berkeley, United States)

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### Wednesday July 16, 2008

#### Chairmen

Prof. Olivier Riant (UC LOUVAIN, Louvain-la-Neuve, Belgium)  
Prof. Johan VAN DER EYCKEN (UGENT, Ghent, Belgium)

#### C-H Bond Functionalization and Asymmetric Synthesis Using Rhodium Catalysts

Prof. Jonathan A. ELLMAN  
(UNIVERSITY OF CALIFORNIA, Berkeley, United States)

#### Natural Products for Cell Biology

Prof. Markus KALESSE  
(UNIVERSITY OF HANNOVER, Hannover, Germany)

#### Coffee-Break

#### Total Synthesis of Structurally Demanding and Biologically Interesting Natural Products

Prof. Johann MULZER  
(UNIVERSITY OF VIENNA, Vienna, Austria)

#### Lunch and Poster Session

#### EXCURSIONS in Ghent

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**Thursday July 17, 2008**

**Chairmen**

Prof. Pierre DE CLERCQ (UGENT, Ghent, Belgium)  
Prof. Norbert DE KIMPE (UGENT, Ghent, Belgium)

**Misconception and Design: a Quest for New Chemical Reactions**

Prof. Samir ZARD  
(ECOLE POLYTECHNIQUE, Palaiseau, France)

**Biomimetic Furan Oxidation : a 'Trojan Horse' Strategy for Crosslinking and Labeling of Biomacromolecules**

Prof. Annemieke MADDER  
(UGENT, Ghent, Belgium)

**Coffee-Break**

**A Tale of Two Neurotransmitters**

Prof. Dirk TRAUNER  
(UNIVERSITY OF CALIFORNIA, Berkeley, United States)

**Lunch and Poster Session**

**New Organopalladium Chemistry for Complex Molecule Synthesis**

Dr. Michael GREANEY  
(UNIVERSITY OF EDINBURGH, Edinburgh, United Kingdom)

**Coffee-Break**

**Chairman**

Dr Lieven MEERPOEL  
(JOHNSON & JOHNSON PRD, Belgium)

**JANSSEN PRIZE LECTURE**

**Case Studies in Catalysis**

Prof. Alois FÜRSTNER  
(MAX PLANCK INSTITUT FÜR KOHLENFORSCHUNG, Muelheim an der Ruhr, Germany)

**JANSSEN PRIZE RECEPTION**

**offered by Johnson&Johnson PRD**

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### Friday July 18, 2008

#### Chairmen

Prof. Alain KRIEF (FUNDP, Namur, Belgium)

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

#### The Catalytic Cycle of Discovery in Total Synthesis

Prof. Phil BARAN

(THE SCRIPPS RESEARCH INSTITUTE, La Jolla, United States)

#### New Catalytic Strategies for Chemical Synthesis

Prof. Matthew GAUNT

(UNIVERSITY OF CAMBRIDGE, Cambridge, United Kingdom)

#### Coffee-Break

#### On Inventing Reactions for Atom Economy

Prof. Barry M. TROST

(STANFORD UNIVERSITY, Stanford, United States)

#### Closing remarks