

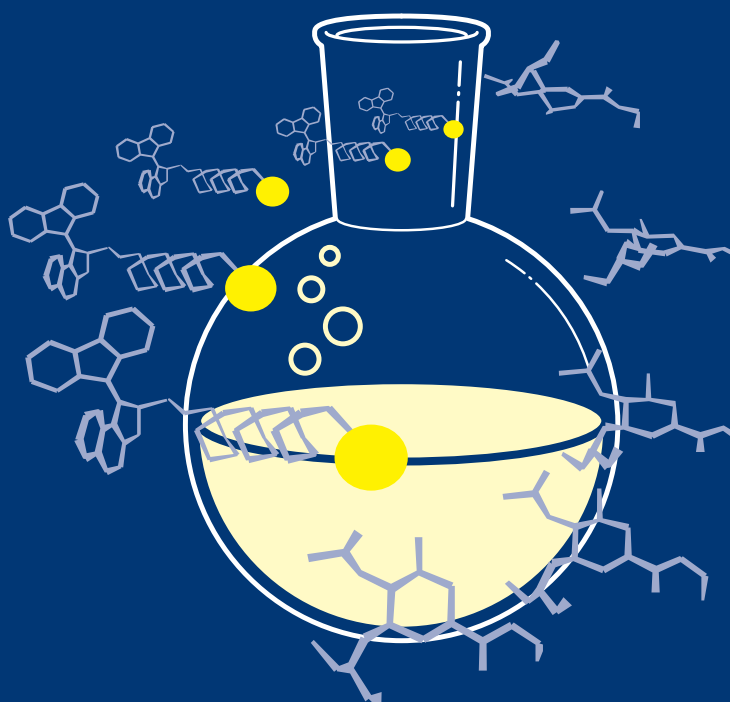
## Visions in chemistry

*The Knud Lind Larsen Symposium  
Radisson SAS Falconer Hotel  
Copenhagen 29 - 30 January 2010*

### Final Programme



The Knud Lind Larsen  
Programme  
Danish Academy of  
Technical Sciences



## Symposium theme

Chemistry plays a central role in the field of natural sciences, with interfaces to biology, medicine, physics and materials science. Advances in the theory of structure and bonding and the understanding of reaction mechanism, coupled with methodological developments in chemical synthesis (both organic and inorganic) now allow the design and preparation of new chemical entities which impact beneficially on the health and welfare of society. It is today possible, via an interdisciplinary approach, to probe and understand complex natural phenomena

and describe them in the stringent molecular language of chemistry.

All the invited speakers are representative of the state of the art in diverse areas of the field such as theoretical chemistry, materials and nanoscience, medicinal chemistry, catalysis and target-oriented organic synthesis. The conference will therefore appeal to a broad audience and will highlight both the challenges which modern chemistry faces and the opportunities which it provides.

# Visions in chemistry

## Friday, 29 January 2010

### 8.30 Registration and coffee

### 9.00 Symposium opening and welcome

Divisional Director Klaus Bæk Simonsen, H. Lundbeck A/S, Denmark  
Chairman, the symposium organizing committee

#### Session 1

Session Chairman, Professor David Tanner, Technical University of Denmark

#### **No more stoichiometric reactions - catalysis rules - and you better find out how it works! (*Quotation Roald Hoffmann*)**

Professor Karl Anker Jørgensen, Aarhus University, Denmark

#### **Case studies in catalysis-based natural product synthesis**

Professor, Alois Fürstner, Max-Planck-Institut für Kohlenforschung, Germany

#### **Coffee and tea break**

### 11.20 The Knud Lind Larsen Prize 2010

Awarding of the prize

#### **Lecture by prize winner**

### 12.00 Lunch

### 13.20 Session 2

Session Chairman, Professor Mikael Begtrup, University of Copenhagen, Denmark

#### **'Green' visions of chemistry and material science**

Professor Morten Meldal, Carlsberg Laboratory, Denmark

#### **Protein glycosylation: Pathways and processes**

Professor Barbara Imperiali, Massachusetts Institute of Technology, USA

#### **Coffee and tea break**

#### **Aiming for the ideal synthesis**

Professor Phil Baran, The Scripps Research Institute, USA

#### **The chemical imagination at work in very tight places**

Professor Roald Hoffmann, Cornell University, USA

### 18.30 Symposium dinner

## Saturday, 30 January 2010

### 09.00 Session 3

Session Chairman, Divisional Director Klaus Bæk Simonsen, Lundbeck A/S, Denmark

#### **Natural products as leads for small molecule drug discovery: The discovery of thrombin receptor antagonists based on the natural product himbacine**

Dr. William Greenlee, Schering-Plough Research Institute, USA

#### **A yoctoliter-scale DNA reactor for small-molecule evolution**

Dr. Nils Jakob Vest Hansen, Vipergen ApS, Denmark

#### **Coffee and tea break**

#### **The rise of fragment-based drug discovery**

Professor David Rees, Astex Therapeutics Ltd, United Kingdom

### 11.50 The Torkil Holm Prize 2010

Awarding of the prize

#### **Lecture by prize winner**

### 12.30 Lunch

### 13.50 Session 4

Session Chairman, Professor Ole Hindsgaul, Carlsberg Laboratory, Denmark

#### **Recent advances in total synthesis**

Professor K.C. Nicolaou, The Scripps Research Institute, USA

#### **Title: TBC**

Professor George M. Whitesides, Harvard University, USA

### 15.45 Symposium closing

Klaus Bæk Simonsen

## Details

### Time

29 - 30 January 2010

Friday, 29 January: 8.30 - approx. 21 (incl. dinner)

Saturday, 30 January: 9.00 - 17.00

### Venue

Radisson SAS Falconer Hotel

Falkoner Allé 9, DK-2000 Frederiksberg

Copenhagen, Denmark

Tel. +45 3815 8001

www.radissonsas.com

### Registration

Please use the online registration at

www.atv.dk | English.

Deadline for registration 8 January 2010.

### Participation fee

Includes coffee, tea, lunches and symposium dinner

Ordinary participants: DKK 2,900

Graduate students: DKK 1,000

All prices are excl. 25% VAT.

### Payment

Invoice and confirmation will be forwarded upon receipt of registration. If cancellation is received later than the 11 January 2010 the participation fee cannot be refunded.

### Accommodation

Arranged individually by the participants.

## Symposium secretariat

Danish Academy of Technical Sciences

Lundtoftevej 266

DK-2800 Kgs. Lyngby

Tel. +45 4588 1311

Fax +45 4588 1351

E-mail: kll@atv.dk

www.atv.dk

## Organisation

This symposium is the sixth in the number of special events within the field of chemistry, organised by the Danish Academy of Technical Sciences. This has been made possible thanks to a donation from the late Mr. Knud Lind Larsen, a former member of the Academy and a distinguished member of the organic chemistry team at the company Danisco.

### Scientific organizing committee

#### Divisional Director Klaus B. Simonsen (Chairman)

H. Lundbeck A/S

#### Professor Ole Hindsgaul

Carlsberg Laboratory

#### Professor Mikael Begtrup

University of Copenhagen

#### Professor Klaus Bock

Chairman of ATV

#### Professor David Tanner

Technical University of Denmark

## The Knud Lind Larsen Prize

During the symposium The Knud Lind Larsen Prize will be awarded for the sixth time. The prize was initiated thanks to a donation to the Academy from the Knud Lind Larsen estate, also funding basic expenses in connection with the symposium.

The prize is awarded to a young Danish researcher within the chemical field who has shown outstanding talent within his/her field of expertise and who may be expected to participate in the strengthening and raising of quality of chemical research in Denmark.

## The Torkil Holm Prize

During the symposium The Torkil Holm Research Award for Chemistry will be presented. The prize has been possible thanks to a donation from the Torkil Holm Foundation.

The prize has been presented to younger promising Danish scientists for over 20 years in recognition of their excellent scientific contribution particularly within the fields of organic- or inorganic chemistry or biochemistry and to strengthen these fields of science in Denmark.