

23rd Workshop

The Synthesis and Applications of Isotopes and Isotopically Labelled Compounds

Bad Soden, Germany
H+ Hotel

September 7 - 8, 2017

SCIENTIFIC PROGRAMME

Thursday, September 7, 2017

Radioanalytics: A Workshop Discussion

**Chairman &
Organiser:** Dr. Martin Sandvoss

10:00 – 12:00 a.m. Room Tolstoi

It is intended to provide a forum for discussion and informal scientific exchange prior to the IIS-CED meeting. This workshop discussion is aimed at those who are dealing with the analysis / quality control of radiochemical synthesis products in their daily business. It is intended to provide a forum for discussion and informal scientific exchange prior to the IIS-CED meeting.

*Planned discussion topics in 2017 will be among others:
The stability of C-14 compounds in dependence on the stored amount,
a newcomer's experiences with HPLC quality control of PET samples
and the possibilities of 2D-HPLC.*

Welcome & Introduction

1:00 – 1:10 p.m. **Dr. Dieter Muri, Dr. Thorsten Poethko, Dr. Dietrich Seidel**
(Organising Committee)

Dr. Jens Atzrodt, President IIS-CED e.V.

Session I

- Chairman:** *Dr. Uwe Kardorff (BASF, GER)*
- 1:10 – 2:00 p.m. **Plenary Lecture**
Prof. Thorsten Bach (Technical University Munich, GER)
“Photochemical reactions en route to structurally complex molecules”
- 2:00 – 2:15 p.m. **Davide Audisio** (CEA Saclay, F)
“Ultrafast click chemistry with fluorosydnones”
- 2:15 – 2:35 p.m. **Prof. Tobias Ross** (Hannover Medical School, GER)
“Multi tracer approach in ischaemic events”

Exhibition - Poster session - Coffee break

- 2:35 – 3:30 p.m. **Exhibition - Poster session - Coffee break**

Session II

- Chairman:** *D.I. Claudia Loewe (Sanofi-Aventis Deutschland GmbH, GER)*
- 3:30 – 3:50 p.m. **Renan Zorzatto** (University of Strathclyde, UK)
“Iridium(I) complexes bearing chelating NHC/phosphine ligands: synthesis and application in HIE processes “
- 3:50 – 4:10 p.m. **Dr. Klaus Merz** (Ruhr-Universität Bochum, GER)
“Crystal engineering – using H/D exchange for molecular rearrangement”
- 4:10 – 4.30 p.m. **Tobias Heinen** (Ruhr-Universität Bochum, GER)
“Roy polymorphs and the effect of deuteration”

Social Program and Congress Dinner

- 5:00 – 11:00 p.m. **Excursion to the Landgraves' Castle Bad Homburg**

Buses will leave on schedule – please show up on time!

Friday, September 8, 2017

Session III

- Chairman:** *Dr. Mariana Damian (Hartmann Analytic, GER)*
- 8:30 – 8:50 a.m. **Sabina Siroka** (CAS Prague, CZ)
“Frustrated lewis pairs at tritium labelling - an alternative to hydride reduction”
- 8:50 – 9:10 a.m. **Dr. Andrew Hoover** (Merck & Co., US)
“Palladium mediated hydrogen isotope exchange”
- 9:10 – 9:30 a.m. **Aleš Marek** (CAS Prague, CZ)
“The tritium labeling of 20-hydroxyecdysone”
- 9:30 – 10:00 a.m. **Dr. Dieter Muri** (F. Hoffmann-La Roche Ltd., CH)
“Development of PET tracers to image aggregated tau”
- 10:00 – 10:30 a.m. **Coffee Break**

Session IV

- Chairman:** *Dr. Thomas Hartung (F. Hoffmann-La Roche Ltd., CH)*
- 10:30 – 11:20 a.m. **Plenary Lecture**
Prof. Tobias Ritter (MPI für Kohlenforschung, Mülheim, GER)
“Late-stage fluorination for PET imaging”
- 11:20 – 11:50 a.m. **Dr. Reinhard Länge** (Bayer AG, GER)
“Use of radiolabelled substances in studies on the environmental fate of human pharmaceuticals”

Lunch and Business Meeting

- 11:50 – 01:00 p.m. **Lunch, Hotel Restaurant**
- 01:00 – 02:00 p.m. **International Isotope Society – Central European Division
Business Meeting
Room Tolstoi**

Session V

Chairman: **Prof. Tobias Ross** (Hannover Medical School, GER)

2:00 – 2:20 a.m. **Mégane Valero** (Sanofi, GER)

“Update on Iridium-catalyzed hydrogen isotope exchange (HIE) Method Development”

2:20 – 2:35 p.m. **Dr. Jon Bloom** (Pharmaron, UK)

“The labelling of prostaglandins with carbon-14 and tritium”

2:35– 2:55 p.m. **Dr. Eduard Hellpointner** (Bayer AG, GER)

“Use of radioactive isotopes in environmental safety assessment of crop protection products”

Closing Remarks

2:55 p.m. **Dr. Dieter Muri, Dr. Thorsten Poethko, Dr. Dietrich Seidel**
(Organising Committee)