

Spring Meeting
GDCh Working Group Phosphorus Chemistry
March 12-13, 2023
TU Dresden

Sunday, March 12, 2023

Welcome

01.10 p.m.

Prof. Jan J. Weigand

Session 1

Chair: Prof. J. J. Weigand

01.20 p.m.

Title: 3H-Phosphaallenes revisited – facile synthesis and versatile chemical reactivity

Pioneer's Lecture: Prof. W. Uhl (University of Münster, Germany)

02.00 p.m.

Title: Synthesis and coordination of novel chelating Bis(NHC-phosphinidene) ligands

J.-E. Siewert (LIKAT Rostock, Germany)

02.25 p.m.

Title: Non-metal coordination chemistry: Synthesis, properties and reactions of P adducts of electrophilic terminal phosphinidene complexes

D. Biskup (University of Bonn, Germany)

02.50 p.m.

Title: Arylation of White Phosphorus Enabled by Consecutive Photoinduced Electron Transfer

M. Gawron (University of Regensburg, Germany)

03.15 p.m.

Title: „Rigaku Advances in X-ray and Electron Crystallography”

Dr. F. Hennersdorf (Rigaku Europe, Germany)

03.25 p.m.

Coffee Break

Session 2

Chair: Prof. C. Hackenberger

03.55 p.m.

Title: Phosphaphenalenenes: the Evolution of Six-Membered Phosphorus Heterocycles

Keynote Lecture: Dr. C. Romero-Nieto (University of Castilla-La Mancha, Spain)

04.35 p.m.

Title: Synthesis of 1,3-Azaphospholes by (3+2)-Cycloadditions with alkynes and Reductive Aromatization

J. Fidelius (TU Dresden, Germany)

05.00 p.m.

Title: “The Long-Time Forgotten Polymer”: Synthesis and Biological Applications of Modified Inorganic Polyphosphates

S. Moser (University of Freiburg, Germany)

05.25 p.m.

Title: Unsaturated Phosphoramidate Electrophiles as Versatile Reagents for the Construction of Next Generation Cancer Therapeutics

Dr. M.-A. Kasper (Tubulis GmbH, Germany)

05.50 p.m.

Title: Reduce the CO₂-footprint and save costs in chemical laboratories

M. Lorenz (NevoLab GmbH, Germany)

06.00 p.m.

Get together

Monday, March 13, 2023

Session 3

Chair: Prof. C. Müller

08.30 a.m.

Title: Phosphorus-based Lithium Ion Conductors - From Li₃P to Lithium-Phosphido Trielates and Tetrelates

Keynote Lecture: Prof. Thomas Fässler (TU Munich, Germany)

09.10 a.m.

Title: Quasi one-dimensional polyphosphides of the HgPbP₁₄ type

K. Vosseler (TU Munich, Germany)

09.35 a.m.

Title: Merging Phosphorus (and heavier pnictogens) with Unconventional Carbenes to Functional π -Conjugated Molecular Systems

Dr. R. S. Ghadwal (University of Bielefeld, Germany)

10.00 a.m.

Coffee Break

Session 4

Chair: Prof. R. Wolf

10.20 a.m.

Title: Implementing new technologies for securing Europe's Phosphate supply

J. Eschment (Parforce GmbH, Germany)

10.45 a.m.

Title: Sustaining the CHNOPS elements of life, but Phosphorus first!

Keynote Lecture: Prof. C. Sootweg (University of Amsterdam, The Netherlands)

11.25 a.m.

Honors

11.30 a.m.

Closing Remarks