

# First Annual Meeting of the Phosphorus Chemistry Working Group

March 20-21, 2022 in Saarbrücken

## Sunday, March 20, 2022

**Chair: Jan J. Weigand**

01.15 p.m.

### **Welcome**

Evamarie Hey-Hawkins

01.20 p.m.

### **News from Phosphorus in Low Coordination**

C. Müller, Berlin/DE

01.50 p.m.

### **Shuttling Phosphinidenes - The Chemistry of Phosphanylidenephosphanes**

C. Hering-Junghans, Rostock/DE

02.20 p.m.

### **Closing the cycle: Variation in size and functionalities of P-heterocyclic rings**

R. Pietschnig, Kassel/DE, Z. Kelemen, Budapest/HU, T. Gutmann, Darmstadt/DE

02.50 p.m.

### **Rigaku Advances in X-ray and Electron Crystallography**

F. Hennersdorf, Neu-Isenburg/DE

03.00 p.m.

Coffee Break

**Chair: Christian Hackenberger**

03.30 p.m.

### **Inositol pyrophosphates control systemic phosphate signalling in Arabidopsis**

H. J. Jessen, Freiburg/DE

04.00 p.m.

### **Ribozyme-catalyzed phosphate and phosphonate transformations for site-specific labeling of RNA**

C. Höbartner, Würzburg/DE

04.30 p.m.

### **Unsaturated Phosphorus-Electrophiles for Cysteine-Bioconjugation and Profiling**

C. E. Stieger, Berlin/DE, L. Franz, Berlin/DE, Y. Park, Daejon/KR, M. A. R. de Geus, Berlin/DE, M.-H. Baik, Daejon/KR, C. P. R. Hackenberger, Berlin/DE

04.50 p.m.

### **New multiple nuclei and ultra-high resolution Spinsolve NMRs for on- and off-line detections of <sup>31</sup>P containing scaffolds**

S. Suljic, Aachen/DE

06.30 p.m.

Conference Dinner

**Monday, March 21, 2022**

**Chair: Christian Müller**

08.30 a.m.

**Umicore Lecture**

**Master and Commander – Phosphorus Ligands in Applied Homogeneous Catalysis**

D. Vogt, Dortmund/DE

09.00 a.m.

**Synthesis of imidazoliumyl-substituted phosphalkenes and phosphanides via a Thio-Phospha-WITTIG type reaction**

P. Royla, Dresden/DE, K. Schwedtmann, Dresden/DE, J. Fidelius, Dresden/DE, H. Zeyu, Vancouver/CA, D. Gates, Vancouver/CA, J. Weigand, Dresden/DE

09.20 a.m.

**Pentaphosphaferrocene Mediated Synthesis of Asymmetric Organo-Phosphines Starting from White Phosphorus**

S. Reichl, Regensburg/DE, M. Scheer, Regensburg/DE

09.40 a.m.

**Electrophilic Functionalization of [Cp\*Fe( $\eta^5$ -P<sub>5</sub>)]: Access to the Unprecedented Pentaphosphole Scaffold**

C. Riesinger, Regensburg/DE, M. Scheer, Regensburg/DE

10.00 a.m.

Coffee Break

**Chair: Manfred Scheer**

10.30 a.m.

**Umicore Lecture**

**$\alpha$ -Metallated Ylides: Powerful Reagents with Versatile Applications**

V. Däschlein-Gessner, Dortmund/DE

11.00 a.m.

**Difluorobis(pentafluoroethyl)phosphoranide: Synthesis, reactivity and ligand properties**

B. Hoge, Bielefeld/DE, M. Keßler, Bielefeld/DE, G.-V. Rösenthaller, Bremen/DE

11.30 a.m.

**Umicore Lecture Award for Young Scientists**

11.35 a.m.

**Closing Remarks**