

# Scientific Programme

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Monday, September 16, 2024

Foyer

12.45 p.m  
**Welcoming remarks**

## Session #1

**Photoactive complexes: Synthesis, spectroscopy and applications**

Chair: Katja Heinze

Lecture Hall C01

01.00 p.m  
**Steric and electronic influence of excited state decay in Cu(I) MLCT chromophores.**  
F. Castellano, Raleigh/US

01.45 p.m  
**Heteroleptic Copper(I) Complexes: Design Strategies, Excited State Properties and Photocatalytic Applications**  
M. Karnahl, Braunschweig/DE, K. Haseloff, Braunschweig/DE, F. Döttinger, Braunschweig/DE, S. Tschierlei, Braunschweig/DE

02.05 p.m  
**Mechanistic Photoredox Catalysis: Placing the Magnifying Glass On Geminate Charge Recombination and Cage-Escape Processes**  
L. Troian-Gautier, Louvain-la-Neuve/BE, A. Ripak, Louvain-la-Neuve/BE, S. De Kreijger, Louvain-la-Neuve/BE, A. Aydogan, Louvain-la-Neuve/BE, A. Vega Salgado, Louvain-la-Neuve/BE, B. Elias, Louvain-la-Neuve/BE

02.25 p.m  
**Long luminescence lifetime boosts the excited state reactivity**  
C. Wang, Osnabrück/DE

02.45 p.m  
**Efficient energy and electron transfer photocatalysis with a Coulombic dyad**  
M. Schmitz, Mainz/DE, M.-S. Bertrams, Mainz/DE, A. C. Sell, Mainz/DE, F. Glaser, Mainz/DE, C. Kerzig, Mainz/DE

## Session #2

**Solar Fuels**

Chair: Carsten Streb

Lecture Hall C01

03.35 p.m  
**Producing fuels from sunlight and water: the Holy Grail of artificial photosynthesis**  
M. Chavarot-Kerlidou, Grenoble/FR

04.20 p.m  
**Two-photon, visible light water splitting at a molecular ruthenium complex**  
J. Schneidewind, Jena/DE, M. A. A. Cordero, Rostock/DE, S. Lochbrunner, Rostock/DE, H. Junge, Rostock/DE, M. Beller, Rostock/DE

04.40 p.m  
**Limiting Molecular Twisting: Upgrading a Donor-Acceptor Dye to Drive H<sub>2</sub> Evolution**  
A. Huijser, Enschede/NL

## **Flash talks**

Chair: Henriette Kolbinger & Matthias Schmitz

Lecture Hall C01

05.00 p.m

**Flash talks**

## **General Meeting**

05.40 p.m

**General Meeting**

## **Poster session - Welcome reception**

Foyer

06.00 p.m

**Poster Session #1 (odd numbers) - Welcome reception**

Tuesday, September 17, 2024

### Session #3

Theoretical photochemistry

Chair: Christel Marian

Lecture Hall C01

09.00 a.m

**Extending the Applicability of Photochemical Dynamics**

L. González, Wien/AT

09.45 a.m

**Modeling Azobenzene-Based Photoswitches in Biological Environments at Coarse-Grained Resolution**

S. Thallmair, Frankfurt am Main/DE, C. Gil Herrero, Frankfurt am Main/DE, T. Duve, Frankfurt am Main/DE

10.05 a.m

**Excited-State Odyssey: Charting Maps with Data-Driven Strategies**

C. Müller, Erlangen/DE

### Session #4A

Photoswitches

Chair: Axel G. Griesbeck

Lecture Hall C01

10.40 a.m

**Combining Multiple Photoswitches - a Strategy to Increase the Performance of Mostophores**

H. A. Wegner, Gießen/DE

11.00 a.m

**Thiosemicarbazones as Versatile Photoswitches with Light-Controllable Supramolecular Activity**

B. Sentürk, Eindhoven/NL, B. Butschke, Freiburg /DE, F. Eisenreich, Eindhoven/NL

11.20 a.m

**Bis- and Tris-norbornadienes with High Energy Densities for Efficient Molecular Solar Thermal Energy Storage**

R. Schulte, Siegen/DE, H. Ihmels, Siegen/DE, T. Paululat, Siegen/DE, S. Afflerbach, Berlin/DE

### Session #4B

Devices and applied photochemistry

Chair: Alejandro Cadranel

Lecture Hall C03

10.40 a.m

**Extending the Life of Organic Solar Cells by Doping with Amphiphilic Molecules**

M. Presselt, Jena/DE, Y. T. Gerase, Jena/DE, J. G. Lopez, Jena/DE, J. P. Madalaimuthu, Jena/DE, A. Elmanova, Jena/DE, S. J. Finkelmeyer, Jena/DE, K. Peneva, Jena/DE, H. Hoppe, Jena/DE, H. Schmidt, Jena/DE, D. Blaschke, Jena/DE, A. Dellith, Jena/DE

11.00 a.m

**Metal-free photochemical C-X functionalization in the ball-mill**

C. Spula, Bochum/DE, S. Grätz, Bochum/DE, L. Borchardt, Bochum/DE

11.20 a.m

**Photooxidation of various organic compounds, including pollutants, by europium(III) in fuel cell systems**

F. Blind, Zittau/DE, S. Fränzle, Zittau/DE

## Poster session - Lunch

Foyer

11.40 a.m

**Poster session #2 (even numbers), combined with lunch**

### Session #5

Photocatalysis and organic transformations

Chair: Till Opatz

Lecture Hall C01

01.30 p.m

**From Batch to Flow: Advancing Synthetic Organic Chemistry through Technological Innovation**

T. Noël, Amsterdam/NL

02.15 p.m

**Sequential Catalysis with Molecular Flavins: Combining Diverse Reactivity**

G. Storch, Garching/DE

02.35 p.m

**Chemical and functional DYEversity - noble metal-free photosensitizers for light driven hydrogen production**

K. Peneva, Jena/DE, D. Costabel, Jena/DE, K. Hotzel, Jena/DE, G. Knorr, Jena/DE

02.55 p.m

**Controlling the Paternò-Büchi reaction of Unconventional Reaction Partners: Access to Complex Spirocyclic Oxetane Products**

S. C. Coote, Bath/GB, W. Z. Michalska, Lancaster/GB, N. H. Halcovitch, Lancaster/GB

03.15 p.m

**Intermolecular Enantioselective Amination Reactions Mediated by Visible Light and a Chiral Iron Porphyrin Complex**

B. Ghosh, Garching/DE, H. Ahmed, Garching/DE, S. Breitenlechner, Garching/DE, M. Feßner, Bochum/DE, C. Merten, Bochum/DE, T. Bach, Garching/DE

### Awards

Chair: Stefanie Tschierlei

Lecture Hall C01

04.15 p.m

**Weller award #1**

04.40 p.m

**Weller award #2**

05.05 p.m

**Förster Award**

Wednesday, September 18, 2024

## Session #6

Ultrafast spectroscopy

Chair: [Benjamn Dietzek-Ivanšić](#)

Lecture Hall C01

09.30 a.m

**Excited-state dynamics of multipolar conjugated molecules: symmetry breaking and structural disorder**

[E. Vauthey, Geneva/CH](#)

10.15 a.m

**Multiphoton Processes and Light-Induced Multi-Electron Charge-Transfer in Covalent Polyoxometalate Dyads and Triads**

[Linda Zedler, Jena/DE](#), [H. Schmidt, Jena/DE](#), [K. Sowa, Mainz/DE](#), [C. Streb, Mainz/DE](#), [B. Dietzek-Ivanšić, Jena/DE](#)

10.35 a.m

**Artemisinin and Benzophenone Dyads: EET from the latter to the former?**

[S. L. Zimmermann, Düsseldorf/DE](#), [C. Bold, Cologne/DE](#), [C. Fendinger, Cologne/DE](#), [A. Griesbeck, Cologne/DE](#), [P. Gilch, Düsseldorf/DE](#)

## Session #7

Spectroscopy & mechanistic photochemistry

Chair: [Gregor Jung](#)

Lecture Hall C01

11.15 a.m

**Getting it Right with Photoluminescence Quantum Yields of Molecular and Nanoscale Luminophores and Luminescent Particles**

[U. Resch-Genger, Berlin/DE](#), [C. Wuerth, Berlin/DE](#), [J. Pauli, Berlin/DE](#), [F. Frenzel, Berlin/DE](#), [S. Fiedler, Berlin/DE](#), [A. Guettler, Berlin/DE](#)

11.35 a.m

**Photochemical CO<sub>2</sub> reduction to HCOOH by an organocobalt catalyst - Two different mechanisms with temporal evolution of catalysis, effectuated by second coordination sphere interactions**

[H. Agarwala, Straubing/DE](#), [V. Artero, Grenoble/FR](#), [M. Fontecave, Paris/FR](#)

11.55 a.m

**New Modalities in Photochemical Uncaging with Visible Light**

[T. Šolomek, Amsterdam/NL](#)

## Session #8A

Photoactive complexes and inorganic materials

Chair: [Stephan Landgraf](#)

Lecture Hall C01

01.20 p.m

**What's next for iron chromophores? Excited-state tuning beyond the first coordination sphere**

[D. Sorsche, Ulm/DE](#), [B. Dietzek-Ivanšić, Jena/DE](#), [K. Witas, Ulm/DE](#), [S. Nair, Jena/DE](#), [T. Maisuradze, Jena/DE](#), [H. Schmidt, Jena/DE](#), [P. Garcia-Porta, Ulm/DE](#), [A. Rein, Ulm/DE](#), [T. Bolter, Ulm/DE](#), [S. Rau, Ulm/DE](#), [L. Zedler, Jena/DE](#), [S. Kupfer, Jena/DE](#)

01.40 p.m

**Multichromophoric approach for CCC-coordinated iron complexes – Changes in photochemical behaviour**

L. Schmitz, Paderborn/DE, M. A. Argüello Cordero, Rostock/DE, R. Schoch, Paderborn/DE, A. Neuba, Paderborn/DE, J. Steube, Paderborn/DE, B. Bracht, Paderborn/DE, O. Bokareva, Rostock/DE, S. Lochbrunner, Rostock/DE, M. Bauer, Paderborn/DE

02.00 p.m

**Iron(III) Carbene Complexes with LMCT Luminescence Lifetimes up to 100 Nanoseconds**

J. Wellauer, Basel/CH, A. Velić, Göttingen/DE, F. Meyer, Göttingen/DE, O. S. Wenger, Basel/CH

02.20 p.m

**Luminescent N<sup>C</sup>N pincer Ni(II), Pd(II), and Pt(II) complexes with pendant coumarin group: The role of auxiliary ligand and environment**

D. Moreth, Würzburg/DE, N. Doltsinis, Münster/DE, C. Strassert, Münster/DE, M. Cappelari, Münster/DE, U. Schatzschneider, Würzburg/DE

02.40 p.m

**Molecular Understanding of Heterogeneous Organometallic Photocatalysts**

F. M. Wisser, Erlangen/DE, R. Jabbour, Lyon/FR, T. Robinson, Lyon/FR, A. Ranscht, Leuven/BE, J. Canivet, Lyon/FR, C. Mellot-Draznieks, Paris/FR, A. Lesage, Lyon/FR

## Session #8B

### Photobiology, single molecules & microscopy

Chair: Thomas J. J. Mueller

Lecture Hall C03

01.20 p.m

**Engineering Artificial Metalloenzymes for Lanthanide Photocatalysis**

C. Zeymer, München/DE, A. S. Klein, München/DE, F. Leiss-Maier, München/DE, R. Mühlhofer, München/DE, B. Boesen, München/DE, G. Mustafa, München/DE

01.40 p.m

**The UV-Driven Functional Diversity of Coenzyme NAD**

C. L. Kufner, Jena/DE, M. J. Janicki, Wroclaw/PL, G. G. Lozano, Boston/US, D. D. Sasselov, Cambridge/US

02.00 p.m

**Old dogs can learn new tricks: aurones as water-friendly photoswitches and novel RNA binders**

D. Berdnikova, Siegen/Hamburg/DE, S. Krauß, Siegen/DE

02.20 p.m

**Estimation of water content in microgels using super-resolution fluorescence microscopy**

H. Höche, Aachen/DE, S. Jana, Aachen/DE, O. Nevskiy, Göttingen/DE, E. Siemes, Aachen/DE, L. Trottenberg, Aachen/DE, J. Enderlein, Göttingen/DE, A. Fürstenberg, Geneva/CH, D. Wöll, Aachen/DE

02.40 p.m

**Single-Molecule Spectroscopy of the Excited-State Proton Transfer**

J. Berger, Saarbrücken/DE, G. Jung, Saarbrücken/DE

## Session #9

### New photoactive materials

Chair: Dominik Wöll

Lecture Hall C01

03.30 p.m

**Design Strategies for Sustainable Carbon Materials as Photocatalyst and Initiator for Radical Photopolymerization and photo-RDRP**

B. Strehmel, Krefeld/DE, Z. Chen, Harbin/CN, Q. Wang, Krefeld/DE, X. Luo, Harbin/CN, P. Wang, Harbin/CN, Y. Pang, Jingmen/CN

03.50 p.m

**Covalent Organic Framework-Based Hybrids with Molecular Precision for Photocatalytic CO<sub>2</sub>-Conversion**

J. Schneider, Munich/DE, L. Spies, Munich/DE, T. Bein, Munich/DE, M. Carmo, Uberlândia/BR, A. Patrocínio, Uberlândia/BR

**Poster awards - Closing remarks**

04.10 p.m

**Poster awards , next LCP, closing remarks**

04.45 p.m

End of Conference