



# International Symposium

5-7 March 2025  
Bielefeld University

## Wednesday 5 March 2025

**12:30** Registration & Come Together

*Chair: Christian Limberg (FOR, Berlin)*

**13:05** **Thorsten Glaser** (Speaker FOR)  
**-13:15** Welcome address & WWW intro:  
What we are, Who we are, and What we are doing

**13:15** **Thorsten Glaser** (FOR, Bielefeld)  
**-13:50** Modelling Intermediates and Reactivity of Nonheme  
Diiron Enzymes

**13:50** **David Goldberg** (Johns Hopkins)  
**-14:35** Before, During, and After the Activation of Dioxygen  
by Nonheme Iron Complexes

**14:35** **Ivana Ivanović-Burmazović** (FOR, München)  
**-15:10** Towards Oxidation Catalysis with Redox-Active Ligands  
and High-Pressure Methodologies in PCET/HAT Chemistry

**15:10** **Coffee Break**  
**-15:35**

*Chair: Frank Neese (FOR, MPI Mülheim)*

**15:35** **Carsten Krebs** (Penn State)  
**-16:20** Oxygen Activation by the Fe(II)- and 2-Oxo-Glutarate-  
Dependent Oxygenases

**16:20** **Christian Limberg** (FOR, Berlin)  
**-16:55** Faithful Structural and Functional Models for the  
Cysteine/Cysteamine Dioxygenases

**16:55** **Martin Srnec** (Prag)  
**-17:40** Thermodynamic principles enabling the control of  
H-atom transfer selectivity



*Chair: Lena Daumann (FOR, Düsseldorf)*

- 15:40**            **Matthias Bauer** (Paderborn)  
-16:25            Ultrafast X-ray spectroscopy on Fe-Co assemblies
- 16:25**            **Maurice van Gastel / Frank Neese** (FOR, MPI Mülheim)  
-17:00            Modelling THz EPR/Magnetic IR spectroscopy including  
Spin-Phonon Couplings using an extended spin Hamiltonian
- 17:00**            **Christopher Schofield** (Oxford)  
-17:45            The Remarkable Catalytic Power of Fe-Oxygenases
- 17:45**                            **Poster Session**  
-18:45
- 19:15**                            **Dinner Hofbräuhaus Bielefeld**

## **Friday 7 March 2025**

*Chair: Serena DeBeer (FOR, MPI Mülheim)*

- 9:00**            **Ebbe Nordlander** (Lund)  
-9:45            Influence of stereoelectronic effects on hydrogen atom transfer  
and oxygen atom transfer reactions involving high-valent  
iron-oxo complexes
- 9:45**            **Alicia Casitas** (Marburg)  
-10:30            High-valent organometallic iron complexes
- 10:30**                            **Coffee Break**  
-10:50

*Chair: Thorsten Glaser (FOR, Bielefeld)*

- 10:50**            **Wolfgang Weigand** (Jena)  
-11:15            Hydrogen formation and oxidation using hydrogenase mimics
- 11:15**            **Markus Reiher** (Zürich)  
-12:00            Quantum Chemistry Method Development for  
Iron Oxidation Catalysis
- 12:00**            **Franc Meyer** (FOR, Göttingen)  
-12:35            Effects of Ligand Variations on Electronic Structures and  
H-Atom Abstraction Reactivity of Organometallic  
Oxoiron(IV) Intermediates
- 12:35**            **Franc Meyer** (Co-Speaker FOR)  
-12:45            Concluding Remarks
- 12:45**                            **Departure**