

Bioanorganisches Symposium 2016

Programm

Donnerstag, 1.9.2016

12.00 – 13.00 Uhr	Get-together
13.00 – 13.45 Uhr	Prof. M. Tromp (U Amsterdam): X-ray characterisation of organometallic Cu systems – Different properties at different time scales
13.45 – 14.25 Uhr	Dr. B. Yorke (CFEL): New tools and novel techniques for time-resolved X-ray crystallography
14.25 – 14.45 Uhr	M. Naumova (CFEL & U Hamburg): Structural dynamics of a novel Cu(I) complex $[\text{Cu}_2(\text{TMGphSSphTMG})_2]^{2+}$ upon photoexcitation
14.45 – 15.05 Uhr	J. Stanek (RWTH Aachen): Electron transfer with copper guanidine complexes
15.05 – 15.30 Uhr	Kaffeepause
15.30 – 15.50 Uhr	A. Wetzel (CFEL & U Hamburg): Raman and Pump-probe Raman studies on copper guanidine-quinoline complexes
15.50 – 16.20 Uhr	P. Liebhäuser & L. Ebert (RWTH Aachen): New tyrosinase models
16.20 – 17.05 Uhr	Prof. S. Köster (U Göttingen): Controlling (bio-)chemical reaction environments by microfluidics
17.05 – 18.00 Uhr	Podiumsdiskussion
Ab 18.00 Uhr	Abendbuffet an den Postern

Freitag, 2.9.2016

9.00 – 9.45 Uhr	Prof. F. Tuczek (U Kiel): Small-molecule models of Tyrosinase: from ligand hydroxylation to catalytic oxygenation of phenolic substrates
9.45 – 10.05 Uhr	J. Ortmeyer (U Paderborn): Transition Metal Complexes Mimicking the Electron Transfer Mediated by Cu _A
10.05 – 10.35 Uhr	Dr. D. Nozaki (U Paderborn): Green's functions based approach to the electron transfer between Cytochrome c ₅₅₂ and the Cu _A Domain of the Thermus thermophilus ba ₃ Oxidase
10.35 – 10.55 Uhr	P. Müller (U Paderborn): TD-DFT calculations of Cu and N K-edge (high energy resolution) X-ray absorption spectra
11.00 – 11.30 Uhr	Kaffeepause
11.30 – 12.15 Uhr	Prof. Dr. N. Huse (CFEL & U Hamburg): Metal-metal bonds in the ground and excited states of binuclear 3d transition metal complexes: Insights from time-resolved X-ray spectroscopy and scattering
12.15 – 13.00 Uhr	Dr. B. Dicke & B. Grimm-Lebsanft (CFEL & U Hamburg): Entatic State for spins of the copper complex $[\text{Cu}(\text{TMGqu})]\text{X}$

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13.00 – 14.30 Uhr	Mittagsbuffet
14.30 – 15.15 Uhr	Prof. U. Schwaneberg (RWTH Aachen): Fifteen Years of Cytochrome P450 BM3 Engineering: Lessons & Success Stories
15.15 – 16.00 Uhr	Prof. W. Streit (U Hamburg): Robust biocatalysts from the metagenomes of non-cultivated bacteria
16.00 – 16.30 Uhr	Dr. A. Hoffmann (RWTH Aachen): Theoretical Insights into the hydroxylation with tyrosinase models
16.30 – 17.00 Uhr	Kaffeepause
17.00 – 17.30 Uhr	Dr. M. Witte (RWTH Aachen): Density functional studies on Cu-S and Cu/O ₂ systems
17.30 – 17.50 Uhr	L. Burkhardt (U Paderborn): The X-ray emission spectrometer at beamline P64 at PETRA III and its relevance for Cu K-edge measurements
17.50 – 18.35 Uhr	Prof. K. Mashima (Osaka University): Enzymatic Catalytic Performance of Cluster Catalysts of Zinc, Cobalt and Manganese for Transesterification and Amide Alcoholysis
Ab 18.45 Uhr	Buffet an den Postern

Samstag, 3.9.2016

9.00 – 9.45 Uhr	Prof. T. Hayashi (Osaka University): Preparation, Characterization and Reactivity of Myoglobin Reconstituted with Artificial Metalloporphyrinoids
9.45 – 10.30 Uhr	Prof. O. Shoji (Tokyo University): Gaseous alkane hydroxylation by tricking the substrate recognition of cytochrome P450s
10.30 – 10.50 Uhr	M. Biednov (CFEL & U Hamburg): XPS on two types of guanidine–quinoline copper complexes
10.50 – 11.20 Uhr	Kaffeepause
11.20 – 11.50 Uhr	Dr. A. Oppermann (RWTH Aachen): Conceptual understanding of bioinspired polynuclear copper complexes
11.50 – 12.10 Uhr	M. Rohrmüller (U Paderborn): Excitations in copper containing biomimetic molecules from ab-initio
12.10 – 12.55 Uhr	Prof. C. Bressler (CFEL): Exploiting New X-Ray Observables for Real-Time Imaging of Chemical Dynamics
12.55 – 13.15 Uhr	Verleihung der Posterpreise und Verabschiedung