Programme of Prague Meeting

IOCB, Lecture Hall

Wednesay April 13

8.30-9.00 9.00-9.20	Registration Opening of the meeting (Chair and Local Organizers)
9.20-10.00	E. Solomon
10.00-10.20	Structure/Function Correlations over Non-Heme Iron Enzymes. B. Champagne Second-order nonlinear optical (NLO) molecular switches: from conventional to
10.20-10.40	transition metal containing compounds. Q. Phung Density matrix renormalization group (DMRG) study of spin-state energetics of iron- oxo porphyrins.
10.40-11.10	Coffee
11.10-11.30	S. Bonnet Stabilization of the low-spin state in a mononuclear iron(II) complex and high- temperature cooperative spin crossover mediated by hydrogen bonding.
11.30-11.50	R. Herchel <i>Iron(III) spin crossover compounds with schiff-base ligands.</i>
11.50-12.20	F. Neese Spin States and Molecular Magnetism.
12.20-14.00	Light lunch
14.00-14.30	M. Gruden Density functional approximations for spin-state chemistry
14.30-14:50	T. Corona Characterization and reactivity studies of A terminal copper-nitrene species.
14:50-15.10	B. Sarkar <i>Click-derived tripodal ligands for spin crossover and bond activation reactions</i> .
15:10-15.30	D. Brazzolotto Dioxygen activation and catalytic reduction by a thiolate-bridged dimanganese(II) complex with a pendant thiol.
15:30-15:50	C. de Graaf Managing the computational chemistry big data problem: the ioChem-BD platform.
15.50-16.30	Database discussion
16.30-17.15 17.15-18.30	Discussion time WGs Poster session (+ pica pica)

Thursday April 14

9.00-9.40	L. Que Jr.
0 40 10 00	The Amazing High-Valent Iron-Oxo Reaction Landscape
9.40-10.00	E. Andris Reactivity of stereoisomeric iron(IV) complexes with a different spin state studied in
	the gas phase.
10.00-10.20	C. Enachescu
	Matrix-assisted relaxation in $Fe(phen)_2(NCS)_2$ spin-crossover microparticles:
	theoretical and experimental investigations.
10.20-10.40	A. R. McDonald
	Nickel(III)-oxygen adducts that oxidize inert hydrocarbons.
10.40-11.10	Coffee + Group Picture
11.10-11.30	M. Radoń
	Accurate spin-state energetics of Fe(III) and Ru(III) aquo complexes evidence
	significant solvation effects.
11.30-11.50	M.C. Kafentzi
	<i>Heterometallic Nickel-Copper dioxygen complexes: electronic structure and reactivity.</i>
11.50-12.20	P. Maldivi
	Quantum chemical analysis of iron complexes highly active in H abstraction and
	nitrene insertion reactions.
12.20-14.00	Light lunch
14.00-14.40	A. Borovik
	A Bioinspired Approach to Synthetic Iron and Manganese Complexes with Oxido and
	Hydroxido Ligands.
14.40-15.00	S. DeVisser
	Quantum mechanics/molecular mechanics studies of cytochrome P450 peroxygenases
	for the biosynthesis of biofuels.
15.00-15.20	J. Klein The aqueous chemistry of the $[Fe^{IV}(O)TMC)]^{2+}$ complex: determining the pK_a of an
	aqua ligand bound to an $Fe^{IV} = O$ unit.
15.20-15.40	A. Kochem
	Polynuclear methane monoxygenase bioinspired copper complexes.
15.40-16.00	R. Travieso-Puente
	Reversible spin state changes in a tetrahedral iron complex with redox-active
	formazanate ligands.
16.00-16.30	K. Pierloot
	Describing oxygen atom transfer with DFT and multiconfigurational methods.
16.35-18.00	MC meeting

Friday April 15

9.00-9.40	K. Bren
	Effects of Heme Conformation on Spin State, Spin Distribution, and Electron Transfer
	in Cytochromes
9.40-10.00	P. Weinberger
	Variable temperature ATR-IR spectroscopy as a valuable tool for the in situ spin state
	detection of iron(II) spin crossover complexes.
10.00-10.20	D. Luneau
	Valence tautomerism in 2D manganese-nitronyl nitroxide radical systems.
10.20-10.40	P. Kyritsis
	Mononuclear single molecule magnets: the case of manganese(III), Iron(II) and
	Cobalt(II) complexes bearing imidodiphosphinato chelating ligands.
10.40-11.10	Coffee
11.10-11.30	G. La Penna
	Reactive oxygen species and the Cu[Amyloid-Beta] complex.
11.30-11.50	H. J. Krüger
	Intermediate-spin state in six-coordinate iron complexes with a pseudo-octahedral
	coordination environment.
11.50-12.20	K. Meyer
	Uranium-mediated electrocatalytic H_2 production from water
12.20-14.00	Light lunch