First Czech-Japan Theoretical Chemistry Symposium September 14-16,2005 Institute of Organic Chemistry and Biochemistry (IOCB), Academy of Sciences of the Czech Republic, in Praha

September 14 Opening



Prof. Hiroshi Nakatsuji (Kyoto University)



Prof. Zdenek Havlas (IOCB)

Oral Presentations



Prof. Masahiko Hada (Tokyo Metropolitan University) "NMR Chemical Shifts of Metal Complexes in Copper Enzymes and Heme Proteins"



Prof. Hiromi Nakai (Waseda University) "Energy Density Analysis"



Dr. Jun-ya Hasegawa (Kyoto University) "Excited States and Electron Transfer in Bacterial Photosynthetic Reaction Center: SAC-CI Study"



Dr. Georg Pruemper and Prof. Kiyoshi Ueda (Tohoku University) "High resolution molecular core-level photoelectron spectroscopy"



Dr. Masahiro Ehara
(Kyoto University)
"Theoretical Fine Spectroscopy: vibrational spectra and excited-state structures"



Dr. Dana Nachtigallova
(IOCB)
"Theoretical Study of Excited States of H-bonded and
Stacked DNA Base Pairs"



Prof. Shigeki Kato
(Kyoto University)
"Free energy surfaces of photochemical processes in solution"



Dr. Jiri Cerny
(IOCB)
"Theoretical Description of Keto-Enol Equilibrium of 7and 9- methylguanines in their ground and excited states"



Dr. Eva Mrazkova
(IOCB)
"Excited States of HCN and H2O...HCN Systems:
Photoacidity and Dynamics of Proton Transfer"



Prof. Pavel Hobza
(IOCB)

"Why Evolution Selected the Watson Crick Binding Motif
in Guanine...Cytosine Base Pair: Experimental and
Theoretical Study in the Ground and Excited States"

Poster Presentations







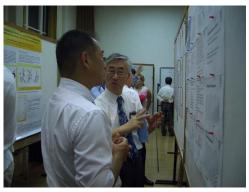














September 15 Oral Presentations



Prof. Shigeyoshi Sakaki (Kyoto University) "Theoretical Study of Catalytic Reactions by Transition Metal Complexes"



Dr. Ondrej Demel
(Heyrovsky Institute)

"Multireference Brillouin-Wigner Coupled Cluster
Method with Triexcitations: Iterative and Noniterative
Approach"



Dr. Mitsutaka Okumura (Osaka University) "Material Oriented Quantum Chemistry: Hybrid DFT calculation of mesoscopic radical clusters"



Dr. Stepan Sklenak (Heyrovsky Instritute) "Comparative Ab Intio and DFT Study of CuNO2 and Cu+NO2"



Dr. Kazuo Toyota (Osaka City University) "Calculation of zero field splitting in organic molecules using the unrestricted Hartree-Fock molecular orbitals"



Prof. Jiri Pittner (Heyrovsky Institute) "New Developments in the Multireference Brillouin-Wigner Coupled Cluster Method"



Prof. Petr Carsky
(Heyrovsky Institute)
"Vibrational Excitation by Electron Impact: Need for a
Better Exploitation of Expertise Accumulated in Quantum
Chemistry"

September 16
Oral Presentations



Prof. Takeji Takui
(Osaka City University)

"An RDM Approach to the Fine-Structure Tensors of
3-Dimensionally Spin Delocalized Systems: Application
to Fullerene C60 and C70 in the High Spin States"



Dr. Lubomir Rulisek
(IOCB)

"Can we think of [n] helicenes as of the potential
nanodevices? A theoretical study of the convergence of
their physico-chemical properties"



Dr. Hirohiko Kono (Tohoku University) "Ultrafast electronic dynamics induced by intense laser fields: from molecules to living cells"



Dr. Jiri Vondrasek
(IOCB)

"Correlated ab initio quantum chemical calculations
of stabilization inside hydrophobic core of proteins"



Dr. Shinji Saito (Nagoya University) "Dynamics of liquid water and nonlinear two-dimensional Raman spectroscopy"



Prof. Zdenek Havlas
(IOCB)

"Relativistics effects in organic biradicals"



Prof. Iwao Ohmine (Nagoya University) "Water Dynamics; fluctuation, phase transition and reactions"



Prof. Koichi Yamashita
(University of Tokyo)
"A non-equilibrium Green's function approach to
photoinduced reactions on metal surfaces"



Closing Remarks



Prof. Hiroshi Nakatsuji (Kyoto University)



Prof. Zdenek Havlas (IOCB)

For the second Japan-Czech Theoretical Chemistry Symposium in Japan



Prof. Shigeki Kato, Prof. Hiroshi Nakatsuji (Kyoto University)



Prof. Shigeki Kato, Prof. Shigeyoshi Sakaki, Prof. Hiroshi Nakatsuji (Kyoto University)