

## Program

### July 7 (Thurs.)

12:50 Opening Remarks (Kazuhiko Ohashi, Kyushu Univ.)

(Chair: Takayuki Ebata, Hiroshima Univ.)

13:00 **Timothy S. Zwier** (Purdue Univ.)

“Conformer-specific spectroscopy and dynamics: From the microwave to the ultraviolet”

13:30 **Christophe Jovet** (Aix Marseille Univ.)

“Photo-induced hydrogen transfer from chromophore to solvent or from solvent to chromophore”

14:00 **Sang Kyu Kim** (KAIST)

“Nonadiabatic photodissociation dynamics near the conical intersection”

14:30–15:00 Coffee Break

(Chair: Yasuhiro Ohshima, Tokyo Inst. Tech.)

15:00 **Tahei Tahara** (RIKEN)

“Ultrafast dynamics at water interfaces revealed by novel interface-selective femtosecond vibrational spectroscopy”

15:30 **Nobuhiro Ohta** (National Chiao Tung Univ.)

“Control of structure, dynamics and function with photoirradiation and application of electric field”

16:00 **Akira Terasaki** (Kyushu Univ.)

“Probing electronic structures of size-selected metal clusters by spectroscopy and chemical reaction”

16:30–17:00 Coffee Break

(Chair: Kazuhiko Ohashi, Kyushu Univ.)

17:00 **Hiroshi Sekiya** (Kyushu Univ.)

“Excited-state dynamics of flexible molecules in solid state”

17:30–19:30 Banquet (at the “Display area” of Nishijin Plaza)

## July 8 (Fri.)

(Chair: Asuka Fujii, Tohoku Univ.)

09:15 **Seong Keun Kim** (Seoul National Univ.)

“Anomalous charge distributions in molecular ions”

09:45 **Evan Bieske** (Univ. Melbourne)

“Changing the shape of molecular ions”

10:15 **Yoshiya Inokuchi** (Hiroshima Univ.)

“A cold spectroscopic study on ion complexes of crown ethers in the gas phase”

10:45–11:00 Photo

11:00–12:00 **Poster Session**

12:00–13:30 Lunch

(Chair: Haruki Ishikawa, Kitasato Univ.)

13:30 **Norifumi Yamamoto** (Chiba Inst. Tech.)

“Molecular mechanism of glycinamide ribonucleotide synthetase”

14:00 **Takakazu Nakabayashi** (Tohoku Univ.)

“Application of molecular spectroscopy to biological sciences”

14:30 **Yasuhisa Mizutani** (Osaka Univ.)

“Watching vibrational energy flow in proteins”

15:00–15:30 Coffee Break

(Chair: Kenji Sakota, Osaka City Univ.)

15:30 **Klaus Müller-Dethlefs** (Univ. Manchester)

“Spectroscopy and dynamics in molecular Rydberg states  
Innovation of ZEKE spectroscopy and ZEKE plasma”

16:00 **Masaaki Fujii** (Tokyo Inst. Tech.)

“Probing solvation dynamics at a single molecular level”

16:30 Concluding Remarks (Hiroshi Sekiya, Kyushu Univ.)

## July 9 (Sat.)

10:00–12:00 Laboratory Tour in Ito Campus / Free Discussion

## Poster List (presenting author's name only)

July 8 (Fri.) 11:00–12:00

- P01 **Masaaki Nakamura** (National Taiwan Univ.)  
“Photodissociation dynamics of hexapole-oriented asymmetric top molecules”
- P02 **Dock-Chil Che** (Osaka Univ.)  
“Orientation dependence in the four-atom reaction of OH + HBr using the state-selected oriented OH beam”
- P03 **Asuka Fujii** (Tohoku Univ.)  
“Stepwise internal energy control for protonated methanol clusters by using the inert gas tagging”
- P04 **Yoshiteru Matsumoto** (Shizuoka Univ.)  
“Flexible configuration of N-H...O=C H-bonds for pyrrole-diethylketone binary clusters studied by IR cavity ringdown spectroscopy”
- P05 **Shun-ichi Ishiuchi** (Tokyo Inst. Tech.)  
“Conformer-selected spectroscopy of adrenaline / binding site of adrenoceptor complex by ESI / cold ion trap technique”
- P06 **Yu Nagashima** (Univ. Tokyo)  
“Spatially localized Raman shifts within amyloid beta aggregates *in vitro*”
- P07 **Yoshiyuki Matsuda** (Tohoku Univ.)  
“Infrared spectroscopic investigation of acidity enhancement of CH bonds in radical cations”
- P08 **Takayuki Ebata** (Hiroshima Univ.)  
“UV- tunable Deep UV pump-probe spectroscopic study on the dark state of *para*-methoxy methylcinnamate and *para*-methoxy ethylcinnamate”
- P09 **Mitsuhiko Miyazaki** (Tokyo Inst. Tech.)  
“Solvent reorientation dynamics in 5-hydroxyindole–water studied by time resolved IR spectroscopy”
- P10 **Kazuki Furukawa** (Nihon Univ.)  
“Change in excited-state intramolecular proton transfer potential surfaces of 4'-*N,N*-dimethylamino-3-hydroxyflavone doped in acetonitrile crystal accompanying with solid/solid phase transition”

- P11 **Hibiki Iwase** (Tokyo Metropolitan Univ.)  
“Precise molecular vibrational analysis using curvilinear coordinates”
- P12 **Michihiro Hirata** (Kobe Univ.)  
“High-resolution laser spectroscopy and Zeeman effect of NO<sub>3</sub> radical:  
The vibrationally excited state”
- P13 **Shunji Kasahara** (Kobe Univ.)  
“High-resolution laser spectroscopy and Zeeman effect of S<sub>1</sub>←S<sub>0</sub> transition of  
naphthalene and Cl-naphthalenes”
- P14 **Haruki Ishikawa** (Kitasato Univ.)  
“Photodissociation Spectroscopy of protonated histidine and its hydrogen-bonded  
clusters”
- P15 **Itaru Kurusu** (Kitasato Univ.)  
“Temperature effect on the hydration structures of phenol cation”
- P16 **Aude Bouchet** (Tokyo Inst. Tech.)  
“Chirality recognition in positively charged glutamic acid clusters investigated by  
gas phase vibrational spectroscopy”
- P17 **Yasuhiro Ohshima** (Tokyo Inst. Tech.)  
“Time- and frequency-domain investigation of cluster geometry and  
intermolecular-mode dynamics”
- P18 **Masashi Arakawa** (Kyushu Univ.)  
“Reaction of Mg<sub>l</sub>Si<sub>n</sub>O<sub>m</sub><sup>-</sup> with CO and H<sub>2</sub>O molecules:  
a model study of chemistry in the interstellar environment”
- P19 **Yuya Kiyomura** (Kyushu Univ.)  
“Size- and temperature-dependent optical absorption spectra of silver cluster cations”
- P20 **Shun Sarugaku** (Kyushu Univ.)  
“Size-specific reactivity of transition-metal-doped silver clusters with an oxygen  
molecule”
- P21 **Kota Ando** (Kyushu Univ.)  
“Freezing process of a supercooled water droplet in a vacuum”
- P22 **Yuji Yamada** (Fukuoka Univ.)  
“Switching of hydrogen-bond network and its effect on the excited state relaxation in  
hydrated aminopyrazine clusters”

- P23 **Kohei Nishizono** (Fukuoka Univ.)  
“Study on the conformational structure of monomer and solvated cluster of benzyl methyl ether”
- P24 **Takako Mashiko** (Yokohama City Univ.)  
“Theoretical study on substituent and solvent effects for nanocube formed with gear-shaped amphiphile molecules”
- P25 **Shota Yasutomi** (Kyushu Univ.)  
“The influence of molecular-weight specific adsorption of polyethylene glycol on two-state transition of myoglobin”