

Report on “The 7th International Conference on Advanced Vibrational Spectroscopy”

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We attended to “The 7th International Conference on Advanced Vibrational Spectroscopy (ICAVS7)” held at Kobe International Convention Center, Kobe, Japan, in August 26–30 2013 with a support from the JSPS core-to-core program. ICAVS is one of the world’s leading vibrational spectroscopy conferences that treat almost all topics involving molecular vibrations. ICAVS provides scientists and researchers with the opportunity to interact with specialists in other disciplines of vibrational spectroscopy and exchange ideas in order to advance the field and improve its impact. We were invited to a session named “Recent Progresses in Gas Phase Spectroscopy” organized by Prof. Takayuki Ebata in Hiroshima University, who is a collaborator of the Core-to-Core program. In addition to us, Prof. O. Dopfer who is a core member of the international group was also invited as a speaker.

M. Fujii presented the real time dynamics in acetanilide–water cluster probed by picosecond time resolved IR spectroscopy, and M. Miyazaki talked about a ground state proton transfer reaction in phenol–ammonia clusters studied by IR spectroscopy in the skeletal vibration region. Both topics got a favorable reception, and we could introduce our strategy for studying intermolecular

interactions and their switching induced by photoexcitation for lot of gas phase researchers.

Quite a lot of scientists (more than five hundred) participated in ICAVS7 and we could meet top researchers in our discipline. We had very good occasion for discussing many advanced topics concerning to the presentations, new systems, experimental techniques, and so on. Actually, we built a new collaboration experiment using our picosecond lasers with an Indian professor, G. Naresh Patwari, Indian Institute of Technology, Bombay, India, who is one of a most active gas phase spectroscopists in India. Such an expansion of the collaboration is the power of conferences.

In addition, we got information on progress in research areas other than gas phase spectroscopy because the topics discussed in ICAVS7 covered wide range of the vibrational spectroscopy. They may help to decide next direction of our works.



Fig.1 A group photo of the invited speakers of the session.