

(Dr.) Kevin K. Lehmann

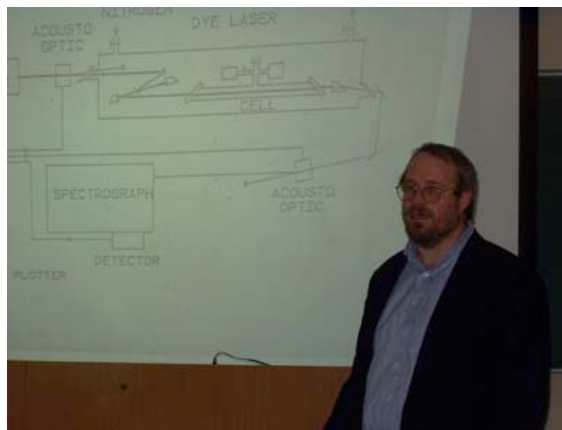
Professor, Department of Chemistry, Princeton University, U.S.A.

21COE seminar: March 7, 2003

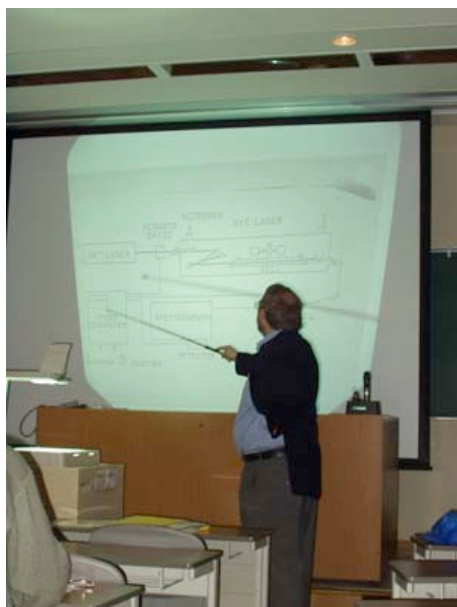
Host: T. Momose (Div. Chem., Grad. Sch. Sci.)

Professor Lehmann is known as a pioneer of high-resolution cavity ring-down spectroscopy using CW lasers. The cavity ring-down spectroscopy has been becoming a common technique for extremely high-sensitive detection of molecules. His apparatus can detect moisture in process gasses at 1000 pptv levels.

He visited Kyoto, Japan to attend the international conference on "Chemistry in Quantum Condensed Phases", which was organized by T. Momose at Kyoto University. He visited Kyoto university before the conference, and gave a seminar at the Department of Chemistry, Graduate School of Science on March 7th, 2003. The title of the lecture was "Continuous Wave Cavity Ring-Down Spectroscopy: From the laboratory to the factory floor". The audience was more than 30. In the talk he gave general introduction of the techniques of cavity ring-down spectroscopy using CW lasers, and examples of overtone spectroscopy as an application of the technique. He also talked about his experience in "technology transfer". i.e. working with a company and helping to design and perfect a commercial device.



Prof. Lehmann



Prof. Lehmann at the seminar



Prof. Lehmann is answering to a question.