

YONG-ILL LEE

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Biographical Sketch

Yong-Ill Lee is a Professor in the Department of Chemistry and a Vice President at Changwon National University (CNU), Changwon, Korea. He received his M.Sc. in Polymer Science in 1991 and a Ph.D. in Analytical Chemistry in 1993 from the University of Massachusetts at Lowell (UML) under the guidance of Prof. Joseph Sneddon. His dissertation was directed for the development of laser-induced breakdown spectrometry (LIBS) and its application for solid sample analysis. He received several awards including Outstanding Graduate Student Award and Professional Development Award during his stay in UML. After graduation, He was an assistant professor at Konyang University, Nonsan, Korea until 1997, when he joined the faculty of the Department of Chemistry at Changwon National University. He had been a Head of the Chemistry Department from 1998 to 2000 and served as the Directors of Research Institute of Basic Sciences and the Central Institute of Instrumental Facilities from 2003 to 2004 at CNU. He spent a year in Aston Laboratory in Purdue University under the direction of Prof. R.G. Cooks as a visiting professor in 2000. His work at Purdue was focused on the investigation of gas phase reaction in ion-trap mass spectrometry system. He also worked for Prof. Steven A. Soper on the instrumental development of Fluorescence Correlation Spectrometry system in 2005 as a visiting professor. He was also the elected Director of the Korean Society for Analytical Sciences in 2007. Currently, he is the Vice president at CNU and working for the design and construction of a New Science Research Complex in the area of 467,000 m².

His research interests include analytical spectroscopy in general, laser spectroscopy (time- and space-resolved), more specifically the development and application of new plasma techniques for advanced materials, gas-phase reaction and kinetic method for chiral analysis by mass spectrometry, photoluminescence of Lanthanide composite materials, micro- and nanostructures of materials. He is an author of over 140 scientific publications, two books on laser-induced breakdown spectrometry and 9 book chapters on laser-based analytical spectrometry. He received the 1999 Meritorious Service Award and the 2004 Outstanding Research Professor Award from CNU, the 2003 Outstanding Scholar Award from the Korean Chemical Society (Analytical Chemistry Division), the 2007 Sunil Scientific Award from the Korean Society for Analytical Sciences. As a result of his efforts, he recently received US\$ 6 Million funding on the project of Development of the Multifunctional Oxide Hybrid Materials for Next Generation as the Principal Investigator from the Korean government agency, Korea Research Foundation (KRF). He had been an editor for *Asia of Applied Spectroscopy Reviews* from 2002 to 2006 and also editorial board member of the *Microchemical Journal*, *Spectroscopy Letters*, and *Applied Spectroscopy Reviews*. In addition, he serves on the advisory board for several international conferences including Asian Conference on Analytical Sciences and Colloquium Spectroscopicum Intenationale.
