

Coblentz Society Applied Analytical Vibrational Spectroscopy Award

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For Immediate Release:

The Coblentz Society is pleased to announce that Dr. Boris Mizaikoff, Chaired Professor of the Institute of Analytical and Bioanalytical Chemistry, University of Ulm, Germany has been selected as the recipient of the 2010 Craver Award. In 2006, The Coblentz Society created an award to recognize the efforts of young professional spectroscopists that have made significant contributions in applied analytical vibrational spectroscopy. The Society has named this award for Clara D. Craver in recognition of her pioneering efforts in promoting the practice of infrared vibrational spectroscopy and her many years of service to the Coblentz Society. Further, the Craver Award is the Society's complement of its prestigious 'Coblentz Award' that recognizes young spectroscopists for efforts in fundamental aspects of vibrational spectroscopy. This award is presented to Professor Mizaikoff in recognition of his recent work in the development, miniaturization, and application of mid-infrared optical chemo-biosensors, and for opening up new frontiers in nano-sensing technologies.

Professor Mizaikoff earned his Ph.D. from the Vienna University of Technology in 1996 and performed postdoctoral work at the University of Texas at Austin. Early in his career, he provided coordination of 4 interdisciplinary, multinational European Union Research Projects.

Since his arrival at the Georgia Institute of Technology in November 2000, Dr. Mizaikoff established the Applied Sensors Laboratory as an interdisciplinary research group at the School of Chemistry and Biochemistry gaining substantial visibility within the national and international scientific community. In 2004, Dr. Mizaikoff also became the Director of the Focused Ion Beam Center. Since that time, ASL has established a reputation as an outstanding resource for innovative science, reliable research and excellence in education. The ASL research areas include: 1) miniaturized mid-infrared chemical sensor systems for molecule specific gas-phase and liquid phase analysis utilizing FT-IR spectroscopy and quantum cascade lasers for environmental analysis, process monitoring, and medical diagnostics; 2) multifunctional scanning nanoprobe and nano-biosensors for biomedical applications, cell biology, and nano-biogeochemistry; 3) deep-sea spectroscopy and sensing for the in-situ determination of volatile organic compounds in marine environments; 4) synthetic receptors and receptor membranes for environmental, food, and biomedical analysis based on molecularly templated materials and functionalized sol-gels applicable to sensing and separations (SPE, HPLC); and 5) focused ion beam based micro- and nano-fabrication.

In autumn of 2007, Dr. Mizaikoff joined the faculty at the University of Ulm, Germany, as a Chaired Professor heading the renowned Institute of Analytical and Bioanalytical Chemistry. His research interests continue to focus on optical sensors, biosensors and biomimetic sensors operating in the mid-infrared spectral range, applications of novel IR light sources including, quantum cascade lasers, system miniaturization and integration based on micro- and nanofabrication, multifunctional analytical platforms for bioanalysis, focused ion beam (FIB) microscopy, development of chemical recognition interfaces for separation and sensing applications, chemometric data evaluation, advanced vibrational spectroscopic techniques, environmental analytical chemistry, process analytical chemistry and biomedical diagnostics.

Dr. Mizaikoff is author/co-author of over 130 peer-reviewed publications, 14 patents and numerous invited contributions at scientific conferences.

The Craver Award will be presented at the 2010 FACSS Conference to be held in Raleigh, NC October 17-21 at the Raleigh Convention Center. Professor Mizaikoff will present the Coblentz Society's Craver Award Plenary Lecture in Applied Vibrational Spectroscopy and a separate half-day award symposium of six invited presentations will be held following his lecture at this conference.