

## **Biosketch – Prof. Jiří Homola, Ph.D., DSc.**

Prof. Jiří Homola is Director of the Institute of Photonics and Electronics, Prague (Czech Republic). He also is Professor of physics at Charles University in Prague and Affiliate Professor at the University of Washington, Seattle (USA). Prof. Homola received his Ph.D. degree from the Czech Academy of Sciences in 1993. From 1993 to 1997 he worked at the Institute of Photonics and Electronics, Prague as a Research Scientist. In 1997-2002 he was with the Department of Electrical Engineering, University of Washington, Seattle, since 2001 as a Research Associate Professor. From 2003 to 2012 Prof. Homola served as the Head of Photonics Division and Chairman of the Department of Optical Sensors at the Institute of Photonics and Electronics, Prague. In 2009, he received his DSc. degree in technical sciences from the Czech Academy of Sciences.

Prof. Homola's research interests are in photonics and biophotonics, in particular in optical sensors and biosensors. His research activities span across multiple disciplines, encompassing research into photonic and plasmonic phenomena and (nano)structures, development of optical sensor instrumentation, microfluidic devices and functional coatings for optical biosensors as well as applications of biosensors for the investigation of biomolecular interactions and detection of chemical and biological substances related to medical diagnosis, environmental monitoring, food safety and security. Prof. Homola edited 2 books and authored over 145 research papers in scientific journals which attracted over 12,000 citations. He also holds 8 patents.

Prof. Homola is a recipient of numerous awards, including the Roche Diagnostics Prize for Sensor Technology, Award for Outstanding Research of the Ministry of Education, Youth and Sports of the Czech Republic, Premium Academiae of the Czech Academy of Sciences, and Czech Head. He is Fellow of the Learned Society of the Czech Republic, Fellow of the International Society for Optical Engineering (SPIE), and Senior Member of the Institute of Electrical and Electronics Engineers (IEEE).