

Institute for Surface- and Thin Film Analysis IFOS GmbH



The Institute for Surface and Thin Film Analysis IFOS GmbH was founded in December 1989 as an institution of the Federal State of Rhineland-Palatinate. Since 1996 it holds also the status of a scientific institution of the University of Kaiserslautern.

The main areas of activity involve are research and development in the field of instrumental surface and thin film analysis as well as application of surface-sensitive analytical methods and their transfer into practice.

A three-fold concept pursued by the IFOS, namely basic research, development of methods and techniques and analytical services constitutes the institute's role as a centre of competence for surface and thin film analysis. As a truly comprehensive technology the latter is applied and advanced successfully with taking into account the technological and scientific knowledge as well as the requirements and demands of potential users.

IFOS also provides analytical services for industry and other non-university research institutions. By means of the electron- and mass-spectrometric techniques (AES, XPS, EELS, SIMS and SNMS) available at IFOS, quantitative compositional analysis of surfaces, interfaces and thin film structures can be performed with a vertical resolution in the sub-nm range and lateral resolution as low as a few 10 nm. Scanning probe microscopes (STM, AFM), electron microscopes (TEM, REM) and combination techniques like dual beam focused ion beam instruments (FIB) which are also available at the IFOS, permit structural characterizations with atomic-scale resolution.

The IFOS actively cooperates with scientific institutions of other European countries within the framework of joint R&D projects. International co-operations of this kind have been carried out with partners from France, Hungary, Luxemburg, Belgium, and others. Together with the French partners an "Interregional Centre for the Analysis of Materials and Surfaces" ICAMS was founded at the IFOS. Analytical instruments developed and constructed by the IFOS are operated nowadays worldwide for example in Taiwan or Australia.



New institute building in the Pre-Uni-Park Kaiserslautern

Contact



Institut für Oberflächen- und Schichtanalytik GmbH

Institute for Surface- and Thin Film Analysis IFOS GmbH

Trippstadter Str. 120
D-67663 Kaiserslautern

Phone: +49 (0)631 / 20573-0

Fax: +49 (0)631 / 20573-3003

info@ifos.uni-kl.de

www.ifos.uni-kl.de

Head: Dr. Michael Kopnarski

Research Areas

- Research and development in the field of instrumental surface and thin-film analysis
- Service analysis and contract research in the field of product development, quality control and failure analysis

www.ifos.uni-kl.de