FH MÜNSTER
University of Applied Sciences

Institut für
Optische Technologien

Das Institut für Optische Technologien lädt ein zum Kolloquiumsvortrag

Prof. Dr. Michael Bredol
Prof. Dr. Thomas Jüstel
Prof. Dr. Ulrich Kynast
Prof. Dr. Konrad Mertens
Dr. Stephanie Möller
Prof. Dr. Ulrich Wittrock

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Luminescent materials for optical chemical sensors: pressure and temperature sensitive paints

Prof. Dr. Michael Schäferling
Fachbereich Chemieingenieurwesen, FH Münster

Optical chemical sensors arouse increasing interest and find applications in different fields such as industrial process control, environmental monitoring, medical research and diagnostics, and chemical analysis. The first part of the presentation will give a general overlook on the design and application types of materials for optical chemical sensors with a focus on photoluminescent signal transduction systems.

The second part will introduce pressure- and temperature-sensitive paints (PSPs / TSPs), a special form of large-area luminescent sensor materials. Such surface coatings enable a direct visualization of pressure and temperature distributions on model surfaces and are nowadays widely used in aerodynamic wind tunnel tests conducted in aircraft and car industry.

Examples of own research and development projects regarding advanced PSP and TSP materials in cooperation with the German Aerospace Center (DLR) in Göttingen will complete this lecture.

Einladender: Prof. Dr. Ulrich Kynast

Ort:
Raum D 145
(Gebäudeteil D, Parkplatz P3)
Stegerwaldstraße 39
48565 Steinfurt

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