

# UniCat Colloquium

## PROF. ALEKSANDER GURLO

TU Berlin, Chair of Advanced Ceramic Materials

### *From Lab to Fab: Research Activities at the Chair of Advanced Ceramic Materials*

In my presentation I will briefly address our current research activities that are structured around seven main areas: (i) polymer-derived ceramics, (ii) functional oxides, (iii) processing technology, (iv) bioceramics and bioactive glasses for life sciences, (v) ceramics for energy storage and conversion, (vi) catalysis and membrane technology, and (vii) sensors and stimuli-responsive materials.

Our vision is to develop a multidisciplinary research in the field of ceramics for energy applications, life sciences and environmental sustainability with this addressing the global megatrends of individualized medicine, materials scarcity, environmental protection, and the need for clean energy.

In our research we access all important stages in the development of materials and devices, from their birth and life to their degradation and death. Our strength is in the design of different material classes with the targeted properties, followed by their synthesis and processing under the controlled conditions. The latter are achieved by applying a variety of structural and spectroscopic characterization techniques in the in-situ and in-operando conditions that allows us to address the crystallization, phase transitions and functional properties of the materials and devices we are developing.

**Wednesday, April 22, 2015 at 5:15 PM**

TU Berlin, Institute of Chemistry  
Straße des 17. Juni 115, 10623 Berlin

Building C, Lecture Hall **C 264**

**Prof. Driess (TUB)**

Organizer

Coffee and cake will be served 30 minutes before the lecture. Guests are cordially invited to attend!  
Prof. Dr. Matthias Driess - Chair of the Cluster of Excellence UniCat - [www.unicat.tu-berlin.de](http://www.unicat.tu-berlin.de)

