Gradient study course-Winter-Course 2019/2020:
“Catalysis: Fundamental Aspects and Common Principles”

Invitation
The Scientific Committee invites graduate students (and post docs) working in the area of catalysis to participate in the graduate study course “Catalysis: Fundamental Aspects and Common Principles”. The course is offered in two sessions. **Session I** will be held from 09.-12.12.2019 near Ulm in Schloss Reisensburg, Wissenschaftszentrum der Universität Ulm, in Günzburg. **Session II** will be held from 29.02.-04.03.2020 in the DAV Haus in Obertauern (Austria) with skiing possibility.

Reason
Catalysis has a remarkable importance in our modern industrial society. Nearly all products that we use in our everyday lives were produced with the help of catalysis. Catalysis is a particularly interdisciplinary science. It comprises the traditional fields of chemistry, biology, physics, material science and process engineering.

Aim and Format
We specifically aim to intensify the education in the promising sector of catalysis without extending the normal duration of the studies. A further purpose consists in abolishing the existing barriers between the traditional academic disciplines and to lead the new generation of scientists as early as possible to the interdisciplinary way of thinking and working that has gained such an enormous importance in our days.

PhD students of any field can be accepted into this program, as long as they are involved in the field of catalysis in a University in Bavaria, Baden-Württemberg or Switzerland. The participation for these PhD students is free of charge. (Registration via homepage: https://www.uni-ulm.de/nawi/iok/south-german-catalysis-institute/winter-course-20192020/anmeldung/ travel and local expenses have largely to be borne by the home institutions.

All the lectures will be held in English by professors from Baden-Württemberg and Bavaria and if necessary by professors coming from other federal states.

The content of the lectures: heterogeneous catalysis, from quantum chemical basis to catalytic process engineering, preparation, characterisation and deactivation of catalysts; kinetics, theory and catalytic reactors; homogeneous catalysis, biocatalysis, and electrocatalysis, organocatalysis and enantioselective catalysis.

The lecturers are: Behm, Cokoja, Datsevich / Jess, Groß, Hashmi, Haumann / Wasserscheid, Jentys, Jörissen, Klemm, Lercher, Traa, and Weuster-Botz.

The teaching quality of the docents will be – according to custom nowadays – evaluated by the participants. The participants will take a written examination after the completion of the program, which is normally in March, and with it’s approval, a certificate issued by the organisers will be awarded.

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