Scientific Program

Water is of key importance to human societies, yet aquatic ecosystems are heavily altered and strongly suffer from biodiversity loss. The solution to water-related problems differs between countries and often requires approaches which integrate ecological, societal and technical skills.

The BaCaTeC Summer School will provide an interdisciplinary forum on water and life sciences in the 21st century and on the different approaches to water-related problems in the US and in Germany. Example topics include: aquatic biodiversity and conservation, ecology and evolution in aquatic environments, water quality requirements and new approaches to pollution detection, and engineering solutions to water-related problems.
The scientific format of the summer school includes both keynote talks and lectures by leading experts in the fields of life and water sciences from UCD and TUM, as well as project presentations by students, workshops and discussion rounds.

The summer school is also meant to increase the scientific collaboration and student exchange between University of California Davis (UCD) and Technische Universität München (TUM).

Confirmed speakers include Prof. Peter Moyle, Prof. Bruce Hammock, Prof. Stefan Wuertz (UC Davis), Prof. Arnulf Melzer, Prof. Peter Rutschmann, Prof. Bertold Hock, Prof. Jürgen Geist (TU München) and the 2003 Stockholm Water Price winner, Prof. Peter Wilderer.

Contact

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UCDAVIS TUM

BaCaTeC Summer School

Life Sciences in the 21st Century with a Focus on Water

July 4th to July 17th 2011

BaCaTeC

About Technische Universität München and its Centre of Life and Food Science Weihenstephan

As one of only three universities distinguished with the German Excellence Award in 2006, the Technische Universität München (TUM) is a leading university in Germany and Europe, serving as an important global player in the international world of science and technology.

The BaCaTeC Summer School “Life Sciences in the 21st Century with a Focus on Water” will take place at the TUM Center of Life and Food Sciences Weihenstephan in the heart of Bavaria. High-ranking researchers in the following fields are working together at this “green” center of education and research: life and food sciences, land use and environment. The summer school will be hosted by the chair of Aquatic Systems Biology in Freising-Weihenstephan.

BaCaTeC Summer School - Life Sciences in the 21st Century with a Focus on Water

The Summer School „Life Sciences in the 21st Century with a Focus on Water“ is a joint project developed by Technische Universität München (TUM) and University of California Davis (UCD). The central goal of the summer school is the exchange of ideas and strategies for sustainable water management to solve water-related problems.

Program Description

Workshops

Short lectures and workshops held by keynote speakers from TUM and UCD with an interdisciplinary focus on water (see scientific program). Participants will present their research projects.

Language: English

Excursions to related research facilities

1. TUM’s Limnological Station in Iffeldorf
2. TUM’s Institute of Water and Environment in Obernach
3. Bavarian Academy of Sciences and Humanities

Language: English

Social Program

The summer school includes a social and cultural program. On the weekends tutors will accompany participants to sights in and around Munich (e.g. Neuschwanstein, Partnachklamm).

Target group and requirements

The course is open to graduate and upper-level undergraduate students, PhD students and early Post-Docs in the fields of life sciences (e.g. ecology, biology, agricultural sciences) and engineering with an interest in water-related challenges and solutions. Due to the limited number of participants, preference will be given to advanced students.

Accommodation

Participants will stay in a hotel in Freising-Weihenstephan, just 15 min from the Munich airport and 45 min from Munich city center.

Program fee

350 € (with accommodation)
250 € (without accommodation)

How to Apply

Please send your application documents (CV, short motivation letter, short abstract of your research project) to Prof. Jürgen Geist by email: geist@wzw.tum.de.

Application Deadline: April 30th 2011