

Prof. Dr. Andreas Pfaltz

Department of Chemistry,
University of Basel
Switzerland



GIVAUDAN-KARRER LECTURES

The course will cover topics in the field of asymmetric catalysis. After a historical perspective and a description of general principles, selected classes of chiral catalysts and enantioselective reactions will be discussed. In addition, a mass spectrometric screening method for enantioselective catalysts will be introduced.

Lecture Topics

- *Historical perspective. General principles. Catalyst and ligand design (Lecture 1)*
- *Asymmetric hydrogenation: neighboring group-directed reactions, enantioselective hydrogenation with Rh- and Ru-diphosphine catalysts, enantioselective hydrogenation of unfunctionalized olefins with Ir-P,N-ligand complexes (Lectures 2-6)*
- *Enantioselective oxidation reactions (Lecture 7)*
- *Enantioselective allylic substitutions (Lectures 8-11)*
- *Mass spectrometric screening of chiral catalysts and catalyst mixtures (Lecture 12)*

Schedule

Dates	Time	Room
Wednesday, November 20 th	10:00 - 12:00	Y 11 F 06
Thursday, November 21 st	8:00 - 10:00	Y 11 F 06
Wednesday, November 27 th	10:00 - 12:00	Y 11 F 06
Thursday, November 28 th	8:00 - 10:00	Y 11 F 06
Wednesday, December 4 th	10:00 - 12:00	Y 11 F 06
Thursday, December 5 th	8:00 - 10:00	Y 11 F 06

To join the course please e-mail Ms Celina Eisenring
celina.eisenring@chem.uzh.ch

Poster Session & Award Lecture

Thursday, November 28th, 2019,
Poster Session: 15:00 h in front of Lecture Hall 16 G 15
Award Lecture: 17:00 h in 16 G 15
www.chem.uzh.ch/en/events/



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