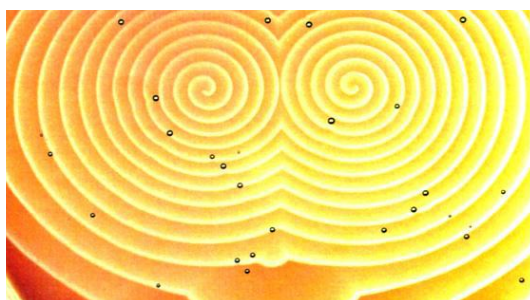


Winner of the Central Teaching Award 2017 of FU Berlin

Course No. 21234

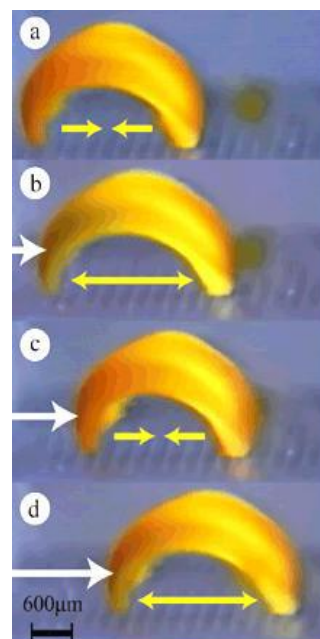
Systems Chemistry: Molecular Diversity – Emergent Properties of Chemical Networks



What is it about?

Systems chemistry is an interesting and very new way to do – and to think – chemistry. Beyond the fundamental insight that we can get, new materials as well as chemical systems can be developed.

These systems are able to adapt and/or react upon the action of external stimuli, and sometimes even evolve. The lecture course aims at demonstrating the intriguing emergent properties of molecular systems and dynamic reaction networks with a number of quite recent examples from the forefront of chemical research. It breaks with the classical paradigm of the pure compound and takes a look at the fascinating and unexpected properties of complex mixtures of molecules in reactivity networks such as oscillating reactions (top pic), autonomously moving gels (right pic) and many more.



Topics? Molecular diversity in nature, spontaneous pattern creation, self-assembly and self-organization, dynamic combinatorial chemistry, homochirality, synthesizing life, and many more. The course will also include a view into other disciplines such as climate and ecosystem research. These topics will be covered by external experts.

Interested? Details can be found on the webpage (scan QR code):

www.schalley-lab.de/Teaching/Systems/index.html

In order to be able to plan accordingly, please send an email with your name, semester number and matriculation number to

c.schalley@fu-berlin.de

if you wish to participate. Registration with Campus Management is nevertheless necessary.

