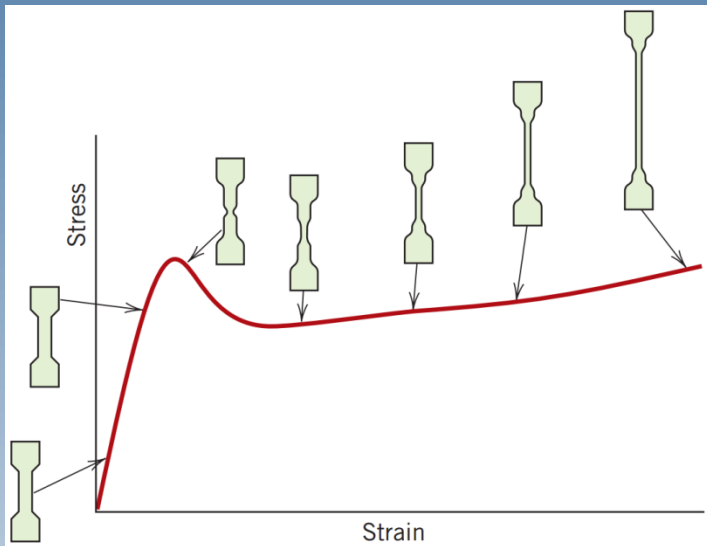


# PROPERTIES OF SOFT MATTER – INSIGHT INTO SOLID MECHANICS AND RHEOLOGY



Callister, Introduction to materials science, 7<sup>th</sup> edition



Plant tendrils form helices driven by mechanical imbalance

## Dates and location

Monday, July 27 – Thursday, July 30, 2015  
MAINZ seminar room, JGU Mainz

## Hosted by

Prof. Holger Frey  
MAINZ graduate school

## General description

Understanding the mechanical aspects of materials is important for utilizing materials for any application in industry or academics. Students will be given a general introduction into engineering concepts relevant to the mechanics and rheology of materials, such as stress-strain response of materials, mechanical instability, elasticity and viscoelasticity, viscosity, and flow of materials.

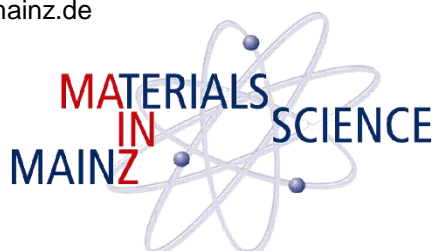
## Target group

PhD students interesting in learning about aspects of mechanical properties of materials with an emphasis on polymers. Students interesting in polymer science, materials science, soft matter, and materials engineering are encouraged to attend.

## Lectures

Lectures will be given in English

Contacts: Jana Herzberger & Daniel Leibig  
jana.herzberger@uni-mainz.de  
leibig@uni-mainz.de



## Speakers

Dr. Jonathan Pham  
- Postdoc, MPIP-Mainz

Prof. Bernhard Wolf  
- Emeritus, University of Mainz

Prof. Christian Friedrich (tentative)  
- University of Freiburg