

The Laboratory for Soft and Complex Matter Studies¹, welcomes you to the **NTNU Soft Matter Days 2018, April 24-27**

As part of the curriculum of the PhD course FY8203 Soft Matter Physics, which is taught this semester, we, at the Laboratory for Soft and Complex Matter Studies have invited some of our good friends that are renowned scientists in this scientific area, to give tutorial lectures (3x45 min each) at NTNU during week 17: **NTNU Soft Matter Days 2018**.

The lecturers are, and the plan for the week is, the following:

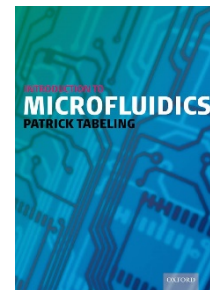
Lecture series 1 on Tuesday April 24, is given in R10 (D5-171) Realfagbygget at 1015-1200, and at 1415-1500:



Lecturer is **Prof. Patrick Tabeling**² from ESPCI-ParisTech/IPGG³ in Paris France.

Prof. Tabeling is Director of the Pierre Gilles de Gennes Institute for Microfluidics in Paris (IPGG⁴), which is Europe's largest specialized microfluidics laboratory. Prof. Tabeling is the author of several scientific works, and also author of one of the most used tutorial books in the area of microfluidics called "*Introduction to Microfluidics*".

The title of Prof. Tabeling's lectures is "*Introduction to Microfluidics*".



Lecture series 2 on Wednesday April 25 is given in E3-128 Realfagbygget at 1315-1600:



Lecturer is **Adj. Prof. Paul Dommersnes**⁵ from NTNU.

Prof. Dommersnes has a wide experience in the area of soft matter science with scientific and/or teaching engagements at academic institutions such as ESPCI-ParisTech, Institut Curie and Univ. Paris 7 in Paris, at MIT in USA, at NORDITA in Copenhagen, at Chalmers Univ. in Sweden as well as at NTNU. Prof Dommersnes also has worked extensively with private companies such as the multinational pharmaceutical company Sanofi in Paris, France and with Giamag Technologies in Norway.

The title of Prof. Dommersnes' lectures is "*Physics of Soft Membranes*".

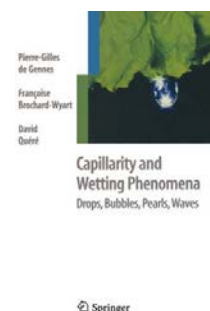
Lecture series 3 on Thursday April 26 is given in R9 (AU1-101) Realfagbygget at 1015-1200, and at 1415-1500:



Lecturer is **Prof. Françoise Brochard-Wyart**⁶ from Institut Curie in Paris, France.

Prof Brochard-Wyart is one of the most renowned and most highly regarded pioneering scientists in the area of soft matter science. She has published several scientific works and also much used tutorial texts and books in this scientific area, such as: "*Capillarity and Wetting Phenomena - Droplets, bubbles, pearls and waves*", by P.-G. de Gennes, D. Quéré et F. Brochard-Wyart, 2010; and "*Physique de la matière molle*", by Françoise Brochard-Wyart, Pierre Nassoy, Pierre-Henri Puech, February 2018. The latter book is the basis for the lecture series that Françoise Brochard-Wyart will give at NTNU, and:

The title of Prof. Brochard-Wyart's lectures is "*Selected topics from Soft Matter Science*".



Lecture series 4 on Friday April 27 is given in R9 (AU1-101) Realfagbygget at 1015-1200, and at 1315-1400:



Lecturer is **Prof. Maria Helena Godinho**⁷ from the New University of Lisboa, Portugal.

Prof. Godinho is an internationally renowned scientist working on several aspects of the molecular, nano-micro-scale and macroscopic properties and behavior of soft materials and complex fluids, mainly liquid crystals (LCs) and cellulose-based systems (CBS). She is interested in the modification, preparation and characterization of cellulose micro/nano rods, and she is much involved in the study of their self-assembling, defects and photonic properties. Helena Godinho is also concerned in the use of liquid crystalline CBS for building moisture driven cellulose micro-motors and electro-optical devices. The development and optimization of liquid crystal based light shutter sensors, which can be used as smart windows or dynamic scattering layers for solar cells are also among her main interests.

The title of Prof. Godinho's lectures is "*Cellulose Structures for Functional Materials*".



Physics Friday Colloquium on April 27 in R10 (D5-171) Realfagbygget at 1415-1500 is given by:

Prof. Françoise Brochard-Wyart⁶: Title of talk: "*Cellular aggregates: Active living droplets*".

Contact person for the **NTNU Soft Matter Days 2018**: Prof. Jon Otto Fossum (jon.fossum@ntnu.no).

¹ <http://folk.ntnu.no/fossumj/lab>

² https://en.wikipedia.org/wiki/Patrick_Tabeling

³ <https://www.espci.fr/en/>

⁴ <https://www.institut-pgg.com/>

⁵ <http://folk.ntnu.no/dommersn>

⁶ https://en.wikipedia.org/wiki/Fran%C3%A7oise_Brochard-Wyart

⁷ <https://www.dcm.fct.unl.pt/pessoas/docentes/maria-helena-figueiredo-godinho>