

# MHMC - Kick-off Meeting

## April 16<sup>th</sup>, 2013

**EPFL**  
ÉCOLE POLYTECHNIQUE  
FÉDÉRALE DE LAUSANNE

EPFL > STI > MHMC

YOU ARE 

BY  SCHOOL 

ABOUT  EPFL 

Person Place EPFL Web On this site

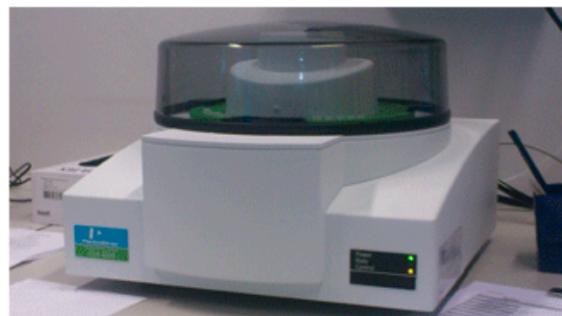
Find a person 

English

## MOLECULAR AND HYBRID MATERIALS CHARACTERIZATION CENTER MHMC

Structure Equipment User Fees Booking system Help and information

 Share  Print



### CONTACT

Molecular and Hybrid Materials Characterization Center (MHMC)

Head of the center:

[Prof. Harm-Anton Klok](#)

Office: [MXD 112](#)

Tel: +41 (0)21 693 4866

Responsible:

[Cindy Känel](#)

Office: [MXD 115](#)

Tel: +41 (0)21 693 2849

Fax: +41 (0)21 693 5650

### Welcome

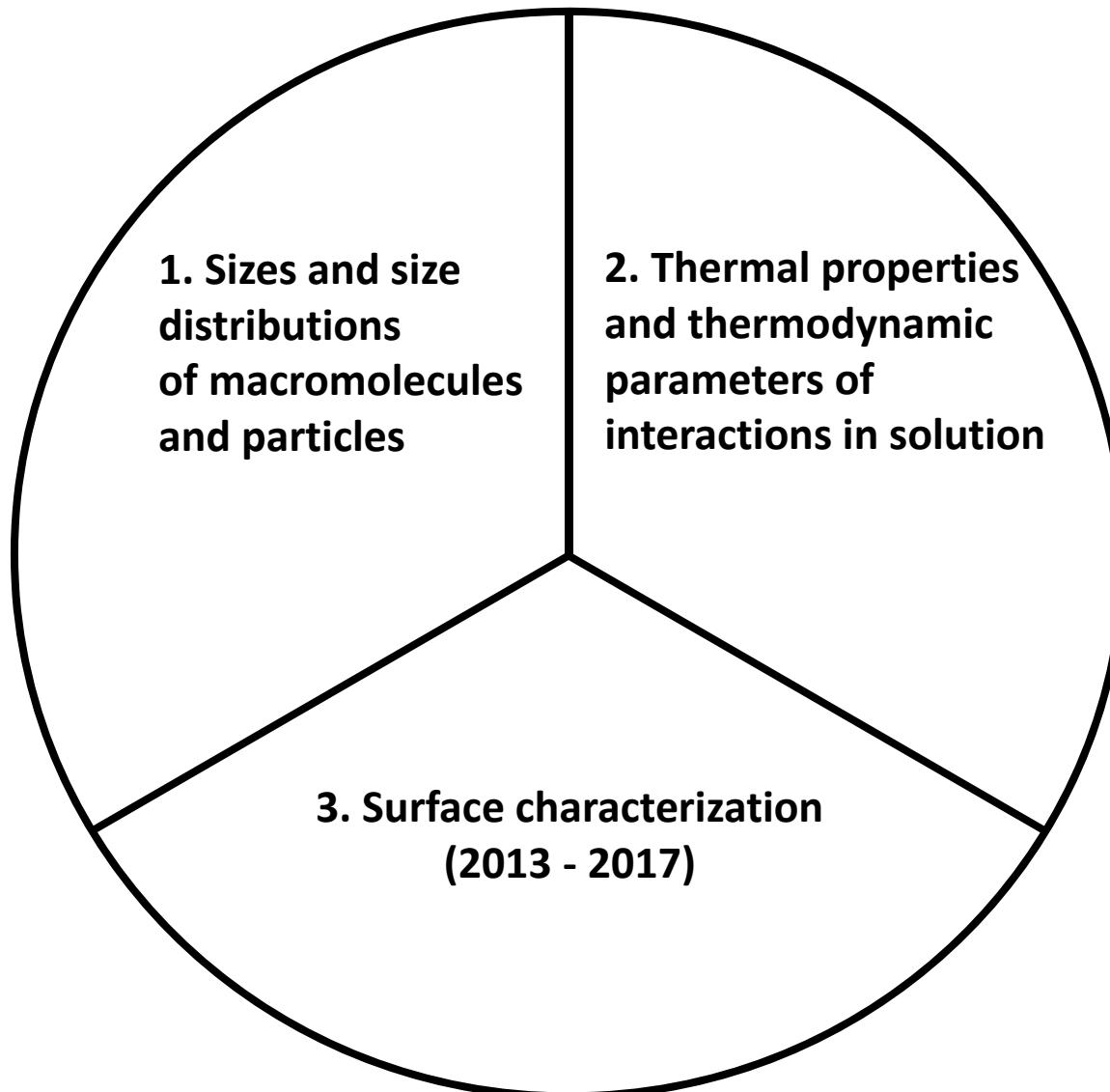
Welcome to the homepage of the Molecular Hybrid and Material Characterization (MHMC) Center at the Swiss Federal Institute of Technology in Lausanne (EPFL). Please use the different links above the picture to navigate our website.

# Objectives

**“to provide the EPFL community with state-of-the-art molecular and hybrid materials characterization facilities”**

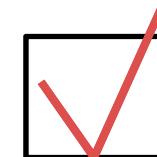
1. renewal of outdated existing equipment
2. expanding the EPFL facilities with new equipment and techniques
3. improving the use of already existing equipment by
  - (a) facilitating and coordinating 24/7 access to users
  - (b) training new users
  - (c) coordinating and supervising maintenance and repair

# **Structure**

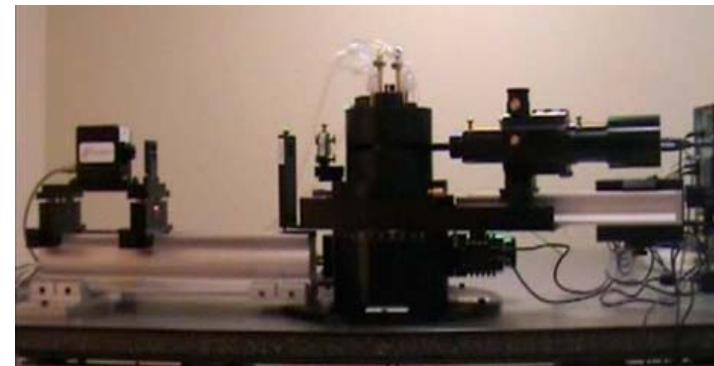


# Platform 1. Sizes and size distributions of macromolecules and particles

Gel Permeation  
Chromatography



Light Scattering

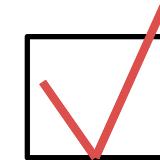


Analytical  
Ultracentrifugation

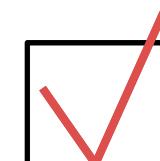


# Platform 2. Thermal properties and thermodynamic parameters of interactions in solution

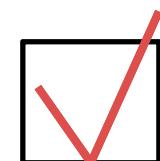
Differential  
Scanning  
Calorimetry



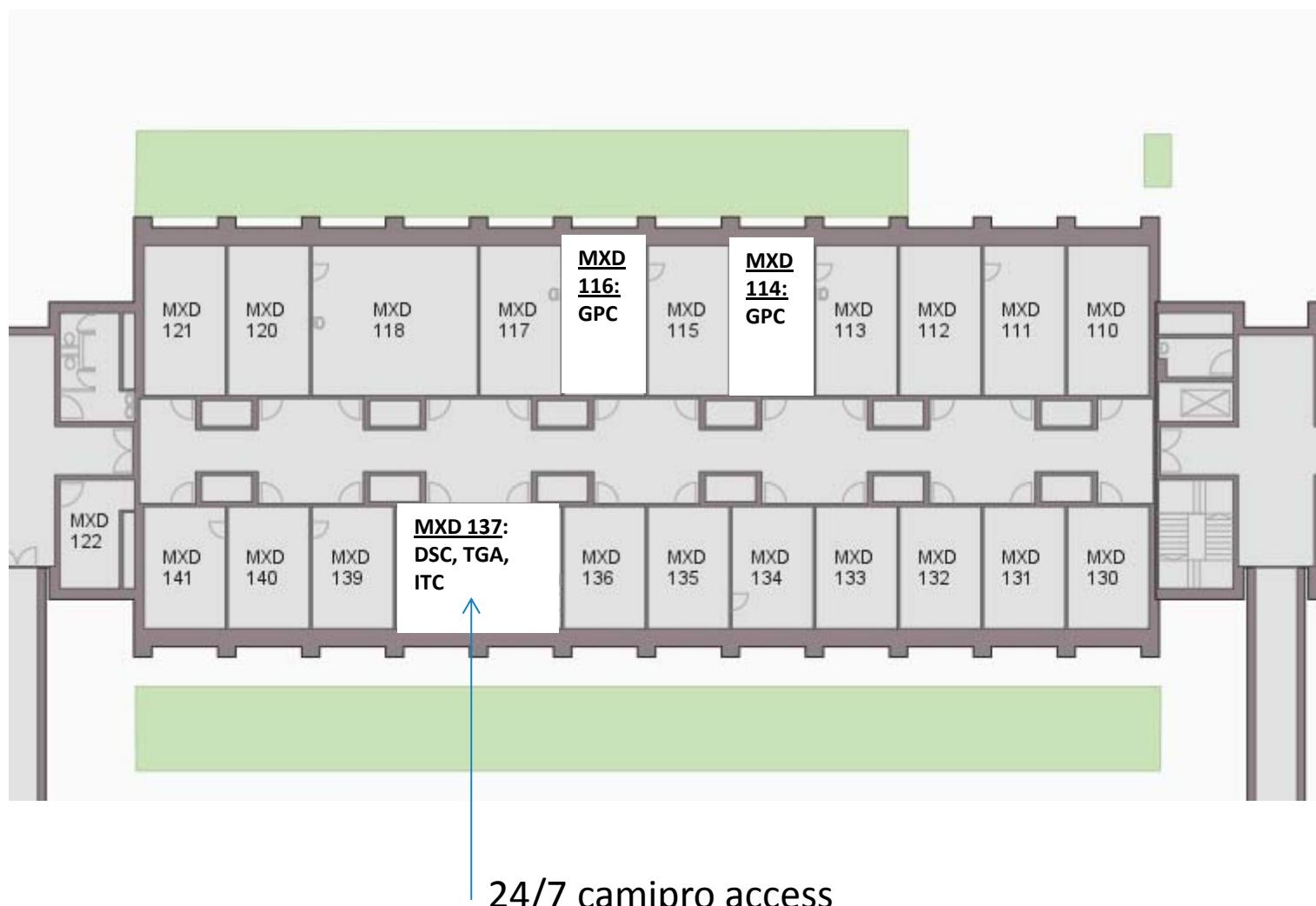
Thermogravimetric  
Calorimetry



Isothermal Titration  
Calorimetry



# Location

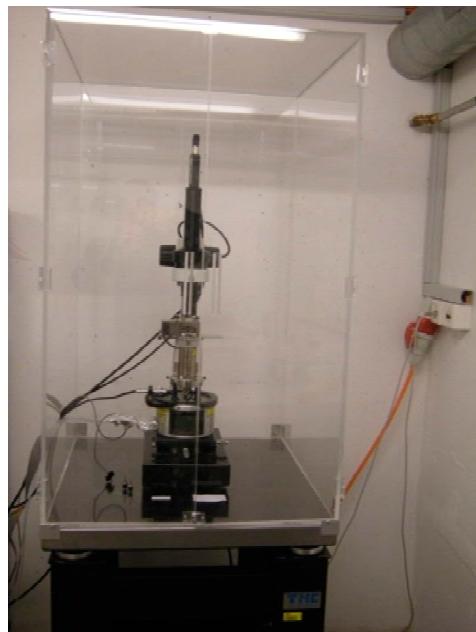


# Platform 3.

## Surface characterization

**Atomic Force Microscopy:**

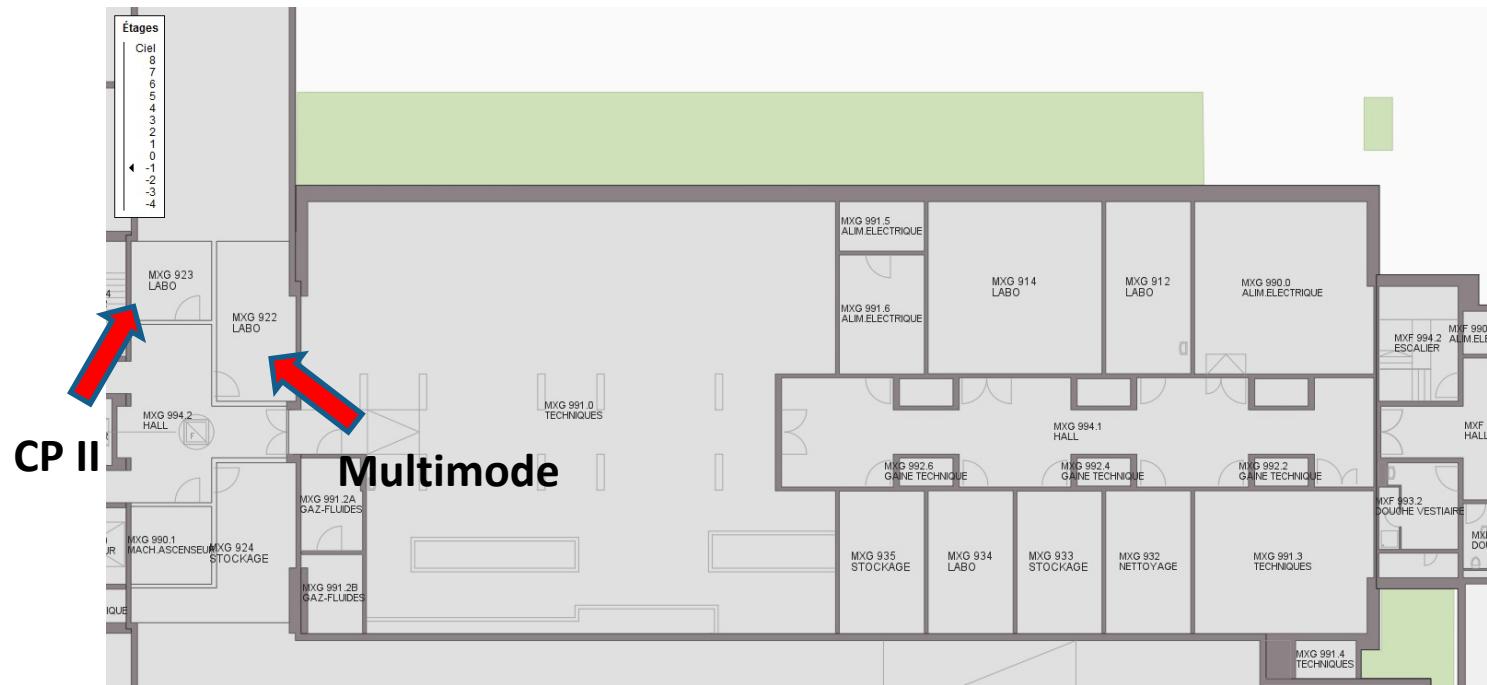
Multimode



CPII



# Location



# User Fees (EPFL users)

## User operated:

Instrument	Fees
DSC, (DSC 8000, Perkin Elmer)	12.70 CHF/h
TGA, (TGA 4000, Perkin Elmer)	6.20 CHF/h
ITC, (iTCA200, GE Healthcare)	11.70 CHF/h
AFM, multimode	7 CHF/h
AFM, CPII	5 CHF/h

## Samples analyzed by operator:

Instrument	Fees
GPC	20 CHF/sample

# Contact Persons

**GPC, DSC, TGA and ITC:**

Cindy Känel  
MXD115  
[cindy.kanel@epfl.ch](mailto:cindy.kanel@epfl.ch)

**AFM:**

Philippe Charpiloz  
MXD132  
[philippe.charpiloz@epfl.ch](mailto:philippe.charpiloz@epfl.ch)

**Steering Committee Members:**

Prof. Jürgen Brügger (STI-IMT)  
Prof. Matthias Lutolf (SV-IBI)  
Prof. Kevin Sivula (SB-ISIC)  
Prof. Francesco Stellacci (STI-IMX)

# **Future Additions**

XPS, Tof SIMS

AFM update / renewal

# **Questions and Comments ?**