



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## SYLLABUS DEL CORSO

### Structure-property relationships in porous crystalline materials for gas storage

2122-79R-M10

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#### Title

Structure-property relationships in porous crystalline materials for gas storage

#### Teacher(s)

Prof. Leonard Barbour, University of Stellenbosch, South Africa

#### Language

English

#### Short description

1. Introduction to porosity
2. Porous molecular materials

3. Porous metal-organic frameworks
4. Applications of porous materials
5. Measuring gas sorption isotherms
6. Adsorption calorimetry
7. Crystallography under gas pressure - apparatus
8. Crystallography under gas pressure - interpretation of structures

### **CFU / Hours**

2 CFU / 16 hours

### **Teaching period**

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From March 14 to March 18 and from March 21 to March 25.

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