

WINTER SCHOOL Advanced techniques for the analysis of novel materials strategic for sustainability transitions. 1 – BIOPOLYMERS

Department of Chemistry and Industrial Chemistry – University of Pisa
Via G. Moruzzi 13, 56124 PISA

| DAY 1 | February 10 th |
|---------------|---|
| 09:30 – 10:00 | Opening Ceremony |
| 10:00 – 10:45 | “Biopolymers – the materials point of view” |
| 10:45 – 11:15 | Coffee Break |
| 11:15 – 12:00 | “Biopolymers – the analytical point of view” |
| 12:00 – 13:00 | Introduction to the 500 MHz Solid State NMR instrument – Francesca Martini |
| 13:00 – 14:00 | LUNCH Break |
| 14:00 – 15:00 | Introduction to the Py-GC/MS with micro UV-irradiator instrument – Marco Mattonai |
| 15:00 – 16:00 | Introduction to the TGA-GC/MS & TGA/FTIR instruments – Celia Duce |
| 16:00 – 16:30 | Coffee Break |
| 16:30 – 17:30 | Introduction to applications of liquid NMR – Andrea Cesari |
| 17:30 – 18:00 | Beer, chips & info |

DAYS 2-3-4 February 11th – February 13th

| | |
|----------------|---|
| 09:00 | Meeting in the hall to be divided in 2 groups |
| 09:05 – 13:00 | Each group works on a different instrument cycling through the 3 days |
| in the morning | Coffee Break |
| 13:00 – 14:00 | LUNCH Break |
| 14:00 – 16:00 | Working on the instrument and data analysis |
| 16:00 – 16:30 | Coffee Break |
| 16:30 – 18.00 | Working on the instrument and data analysis |

DAY 5 February 14th

| | |
|----------------|---|
| 09:00 | Meeting in the hall to be divided in 3 groups |
| 09:05 – 13:00 | Data analysis in the classrooms |
| in the morning | Coffee Break |
| 13:00 – 14:00 | LUNCH Break |
| 14:00 – 16:00 | Data analysis in the classrooms |
| 16:00 – 16:30 | Coffee Break |
| 16:30 – 18.00 | Closing remarks |
