

Proposal for the EMS Summer School 2016

Membranes and Membrane Processes Design

June 26-July 1, 2016

Organised by:

Laboratory of Membrane processes, bioseparations and diffusion in polymers (MEMLAB), DICAM University of Bologna, via Terracini 28, 40131 Bologna, Italy.



Organization

Summer School Chair

Cristiana Boi (LABMEM University of Bologna)

Organizing Committee

Maria Grazia De Angelis, Marco Giacinti Baschetti, Matteo Minelli
(LABMEM University of Bologna)

Scientific Committee

Giulio C. Sarti, Serena Bandini, Giovanni Camera Roda,
Ferruccio Doghieri, Carlo Gostoli (University of Bologna)

EMS Council Members



Scope

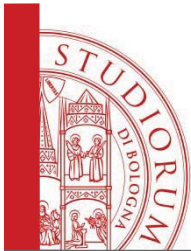
Introduce the **fundamentals of membrane science for**

Design of membrane processes for emerging applications:

- CO₂ capture
- energy production
- water treatment
- biotechnology

Description of the behavior of new materials for membranes:

- Mixed Matrix Membranes
- Ionic Liquids
- Smart and Functional materials
- Biomaterials

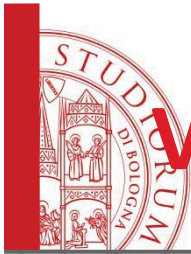


Location

The Summer School will be held in Bertinoro in the beautiful Romagna hills where Sangiovese grapes happily grow.



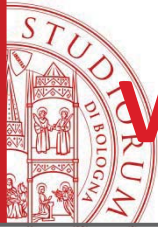
Demonstration activities
can be organized in
LABMEM in Bologna



Venue: Centro Residenziale Universitario

The Centro Residenziale Universitario di Bertinoro is the vocational training center for the University of Bologna.

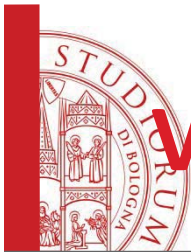




Venue: Centro Residenziale Universitario



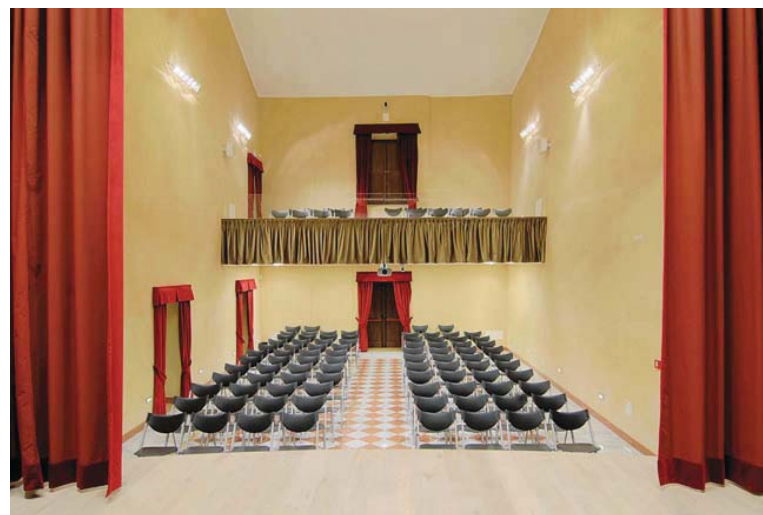
Situated in ancient Bertinoro and perched over the beautiful city, the impressive views are just one draw to this incredible facility. Each year, close to 30,000 guests attend a meeting or spend the night at the The Centro Residenziale Universitario di Bertinoro (www.ceub.it).



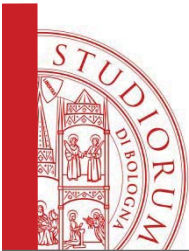
Venue: Centro Residenziale Universitario



The facility has several unique buildings, including St. Sylvester Church, a theater, the Rivellino and the Bishop's Fortress. Participants will be accommodated in the 86 guest rooms, breakfast and lunch will be served in the canteen that seats 200.



Wi-Fi connection is available in the whole centre.

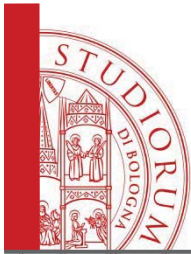


Venue: lecture rooms and facilities



The facility has 14 training rooms, 2 computer labs, and the best technology in use to support the training activities with multimedia tools, two computer labs (the first one only used for the lectures and the second one free for everyone) as well as a workshop for design courses.

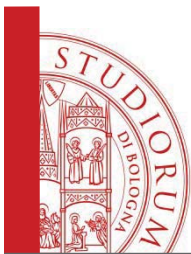




Travel

By train: the nearest train station is Forlì. There are bus connections between Forlì and Bertinoro and transportation can be organized if necessary.

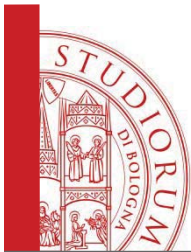
By air: Bologna airport is connected with direct flights to most European capitals and many other important Italian and European destination. Shuttle bus transportation from the airport to the Summer School location will be arranged by the organizers.



Preliminary schedule

	Sunday June 26	Monday June 27	Tuesday June 28
9.00-11.00		Lectures	Lectures
11.00-11.30		Coffee break	Coffee break
11.30-12.30		Lecture	Lecture
13.00-14.30		Lunch	Lunch
15.00-17.00	Arrival and registration	Lectures	Trip to an industrial facility or to the LABMEM with demonstration activities
17.00-17.30	Introductory lecture	Coffee break	
17.30-19.30	Mini-poster session*	Lectures	
20.30	Dinner	Dinner	Dinner

*All participants will be asked to prepare a mini-poster of A3 size in which they present their interest and the reason for their participation to the Summer School



Preliminary schedule

	Wednesday June 29	Thursday June 30	Friday July 1
9.00-11.00	Lectures	Lectures	Lectures
11.00-11.30	Coffee break	Coffee break	Coffee break
11.30-12.30	Lecture	Lecture	Lecture and closing
13.00-14.30	Lunch	Lunch	Lunch
15.00-16.00	Lecture	Lecture	
16.00-16.30	Poster session* with refreshments	Trip to Ravenna with dinner (seaside) and best poster award ceremony	
17.00-17.30			
17.30-19.30			
20.30	Dinner		

*Regular scientific poster session.