

## The school

The IV International Summer School on Cyclodextrins welcomes graduate students, Ph.D students and researchers interested in all the aspects of cyclodextrin chemistry and technology. The lectures will cover several topics on CD and CD inclusion complexes:

### Synthesis of modified CDs

#### CD based polymers

CD nanosponges and nanofibers  
CD for drug delivery, nanomedicine,  
pharmacy

#### CD for electrophoresis and chiral chromatography

### Physical methods for the characterization of CD and CD complexes

The lectures will be strongly oriented to teaching and transmission of know-how.

*The participants – early stage scientists especially – are invited to submit contributions to the poster session for the discussion of recent individual results and open issues.*

## The teachers

**Federica BALZANO** - Univ. Pisa (IT)  
**Erem BILENSOY** - Hacettepe Univ. Ankara (TR)  
**Fabrizio CALDERA** – Univ. Torino (IT)  
**Roberta CAVALLI** – Univ. Torino (IT)  
**Bezhan CHANKVETADZE** – Tbilisi State Un. (GE)  
**Monica FERRO** – Politecnico Milano (IT)  
**Sophie FOURMENTIN** – ULCO Dunkerque (FR)  
**Gustavo GONZÁLEZ-GAITANO** – Un. Navarra (ES)  
**Kim LAMBERTSEN LARSEN** – Aalborg Univ. (DK)  
**Thorsteinn LOFTSSON** – U. Iceland Reykjavik (IS)  
**Francesca MAESTRELLI** – Univ. Firenze (IT)  
**Milo MALANGA** – Cyclolab (HU)  
**Bernard MARTEL** – Univ. Lille1 (FR)  
**Giuseppina RAFFAINI** – Politecnico Milano (IT)  
**Barbara ROSSI** - ELETTRA Synchrotr. Trieste (IT)  
**Milena SORRENTI** – Univ. Pavia (IT)



**POLITECNICO  
MILANO 1863**

DIPARTIMENTO DI CHIMICA,  
MATERIALI E INGEGNERIA CHIMICA  
GIULIO NATTA

**Conference Room “Giulio Natta”  
P.zza Leonardo da Vinci 32, Milano  
(IT)**

**June 10-12, 2019**



Sponsored by:



## Deadlines

**17/05/2019: Registration**  
**17/05/2019: Abstract submission**

## Information and registration

The official website of the school is active:

<https://indico.chem.polimi.it/event/1/>

For information and contact, send email to:  
[cdschool2019-dcmc@polimi.it](mailto:cdschool2019-dcmc@polimi.it)

**Registration fee:** 350 euro, inclusive of two-nights accommodation, lunches, dinners, coffee breaks and documentation of the School.

**Payments:** bank transfer. Use the following details:

**IBAN:** IT62G0200810300000040830737

**Bank:** Unicredit S.p.A. - Asti (AT)

**Payment to:** CD.TE.C ASS. ITALIANA Di CHIMICA E TECNOL. CICLODESTRINE

**Description of payment:** Registration to 4th International Summer School on Cyclodextrins

## Organizing committee

- **Andrea MELE (chair)**
- **Francesco TROTTA (chair)**
- Franca CASTIGLIONE
- Greta COLOMBO DUGONI
- Maria Enrica DI PIETRO
- Monica FERRO
- Alberto MANNU
- Walter PANZERI
- Carlo PUNTA

# School timetable

June 10, 2019

**13.00-14.00**      **Registration**

**14.00-14.15**

**Welcome**

Andrea Mele and Francesco Trotta

**14.15-15.00**

Milo Malanga – Cyclolab (Hungary)

*Functionalized cyclodextrins: synthetic strategies*

**15.00-15.45**

Barbara Rossi – ELETTRA Synchrotron Trieste (Italy)

*Vibrational spectroscopies for CDs and CD polymers*

**15.45-16.30**

Francesca Maestrelli – Univ. Firenze (Italy)

*Phase solubility diagrams*

**16.30-16.45**

**Coffee Break**

**16.45-17.30**

Giuseppina Raffaini – Politecnico di Milano (Italy)

*Molecular modeling of CD complexes*

**17.30-18.15**

Sophie Fourmentin – ULCO Dunkerque (France)

*Analytical Methods for the Characterization of Cyclodextrin Inclusion Complexes*

**19.30 Walking in town and pizza together**

June 11, 2019

**8.30-9.15**

Thorsteinn Loftsson – University of Iceland (Iceland)

*Drug delivery with cyclodextrins*

**9.15-10.00**

Erem Bilensoy – Hacettepe Univ. Ankara (Turkey)

*Cyclodextrins for nanomedicine*

**10.00-10.45**

Roberta Cavalli – Univ. Torino (Italy)

*Pharmaceutical formulations with cyclodextrins*

**10.45-11.00**

**Coffee Break**

**11.00-11.45**

Gustavo González-Gaitano – University of Navarra - Spain

*Scattering methods for cyclodextrins*

**11.45-12.30**

Fabrizio Caldera – Univ. Torino (Italy)

*CD nanosponges: synthesis and applications*

**12.30-14.00 Lunch**

**14.00-14.45**

Monica Ferro – Politecnico di Milano (Italy)

*Dynamics of guests inside CD nanosponges and hydrogels*

**14.45-15.30**

Bezhan Chankvetadze – Tbilisi State Univ. (Georgia)

*Electrophoretic separations with cyclodextrins*

**15.30-16.15**

Bernard Martel – University of Lille (France)

*Electrospinning technology applied to elaboration of cyclodextrins containing nanofibers and applications*

**16.15-16.30**

**Coffee Break**

**16.30-18.30  
20.00**

**POSTER SESSION  
Social Dinner**

June 12, 2019

**8.30-9.15**

Federica Balzano – Univ. Pisa (Italy)

*NMR methods in cyclodextrin chemistry*

**9.15-10.00**

Kim Lambertsen Larsen – Aalborg University (Denmark)

*Characterisation of CD and CD inclusion complexes in the solid state*

**10.00-10.15 Coffee Break**

**10.15-11.00**

to be defined

*Regulatory aspects of CD*

**11.00-11.45**

Milena Sorrenti – Univ. Pavia (Italy)

*Thermal methods for CD inclusion complexes*

**11.45-12.15**

**Questions Time and Closing remarks**

**12.15 Lunch and Good Bye**