





1 st School of Supramolecular and Bio-Nanomaterials

Lake Como School of Advanced Studies, June 13-17, 2022

Home Organizing Committee Programme Scientific Themes Speakers Sponsors & Patronages Main Activities

Application Registration Venue & Accommodation Contacts

Q



Home

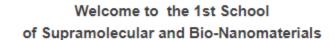
"Almost all aspects of life are engineered at the molecular level, and without understanding molecules we can only have a sketchy understanding of life itself" Francis Crick (1988)

This School aims to provide a research-led overview of the current state-of-the-art in self-assembly phenomena, applied supramolecular chemistry, and bio-nanomaterials. Taking inspiration from Nature, the attendees will be guided through all aspects of chemistry underpinning the formation of hierarchical structures and complex functionalities.

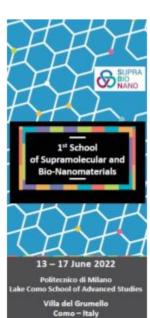
During an intense training week the attendees will learn how to design and develop functional materials through the combination and assembly of organic, inorganic, coordination, biological molecules, and higher-level building units.

The field of supramolecular systems and bio-nanomaterials is both timely and highly interdisciplinary and this School wishes to foster a collaborative, multidisciplinary, and

dynamic "playground" for presenting and discussing the most recent research results in field of supramolecular chemistry and self-assembled materials.



Book of Abstract (SBN School_Book of Abstract_compressed)





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Lake Como School of Advanced Studies, June 13-17, 2022

Home

Organizing Committee

Programme

Scientific Themes Speakers Sponsors & Patronages

Main Activities

Q

Application

Registration

Venue & Accommodation

Contacts



Organizing Committee



Pierangelo Metrangolo (Politecnico di Milano)



Claudia Pigliacelli (Politecnico di Milano)



Francesca Baldelli Bombelli (Politecnico di Milano)



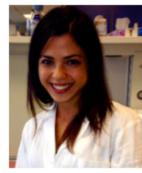
Gabriella Cavallo (Politecnico di Milano)



Valentina Dichiarante (Politecnico di Milano)



Giancarlo Terraneo (Politecnico di Milano)



Cristina Chirizzi (Politecnico di Milano)



Main Activities

1 st School of Supramolecular and Bio-Nanomaterials

Lake Como School of Advanced Studies, June 13-17, 2022

Scientific Themes

Organizing Committee Sponsors & Patronages

Speakers

Application Venue & Accommodation Registration Contacts

Programme

Home

Q



Programme

PROGRAM AT A GLANCE

		Monday 13/06/2022	Tuesday 14/06/2022	Wednesday 15/06/2022	Thursday 16/06/2022	Friday 17/06/2022
09.00	09.30			77-001-00-00-00-00-00-00-00-00-00-00-00-00		
09.30	10.00		Lecture 2 - Helma Wennemers	Lecture 5 - Ivan Huc	Lecture 8 - Michael Zaworotko	Lecture 11 - Nathalie Katsonis
10.00	10.15					
10.15	10.45		COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK
10.45	11.00		Lecture 3 - Ronald T. Raines	Lecture 6 - Guido Clever	Lecture 9 - Despina Fragouli	Lantana Da Faranana Baldalli
11.00	11.30					Lecture 12 - Francesca Baldelli
11.30	12.00					Bombelli
12.00	12.30		LUNCH	LUNCH	LUNCH	Closing Ceremony
12.30	13.00					
13.00	13.30					
13.30	13.45					
13.45	14.00					
14.00	14.30	4	Lecture 4 - Nonappa	Lecture 7 - Fabio Biscarini	Lecture 10 - Francesco Zerbetto	
14.30	15.00					
15.00	15.30				Group Project Activities &	
15.30	15.45	Opening	Group Project activities	Group Project Activities	Coffee Break	
15.45	16.00	Lecture 1 - Francesco Stellacci				
16.00	16.30				Project Presentations by Groups	
16.30			Poster Session 1 (posters with odd number) &	Poster Session 2 (posters with even number) &		
17.00	17.30	and Group Project Activities				
17.30	-		Happy Hour	Happy Hour		
	18.30	and droop rroject neutries				
_		4			Excursion to Brunate	
	19.30	Welcome Party @ Villa del			Excursion to brunate	
-	20.00	Grumello				
	20.30					
_						
21.00					Social Dinner @ Brunate	
21.30	_				Restaurant: Il Falchetto	
22.00	22.30					

	Detailed Program 1 ^{et} SBN School		
13/06 MONDAY			
14:00 = 15:30	Registration @ Villa del Grumello		
15:30 = 15:45	Welcome from the SBN School Organizers		
15:45 - 17:00	Francesco Stellacci		
Lecture 1	Title: Supramolecular Approaches to the Design of Extracellular Antivirals		
Chairperson: Pierangelo Metrongolo			
17:00 - 18:30	Group Project Announcement and Group Project Activities		
18:30 = 20:30	Welcome Party @ Villa del Grumello		
14/06 TUESDAY			
9:00 = 10:15	122012000000		
Lecture 2	Helma Wennemers		
Chairperson: Cristina Chirizzi	Title: Controlling Supramolecular Assemblies with Peptidic Scaffolds		
10:15 - 10:45	Coffee Break		
10:45 - 12:00	521-11 0-101		
Lecture 3	Ronald T. Raines		
Chairperson: Francesco Baldelli	Title: Lessons from Collagen		
Bombell .	220		
12:00 - 13:45	Lunch		
13:45 - 15:00	Nonappa		
Lecture 4	Title: Atomically Precise Nanoparticle Assemblies: From 2D Colloidal Crystals		
Chairperson: Claudia Pigliacelli	to Elastic Membranes		
15:00 - 16:30	Group Project Activities		
16:30 - 18:00	Poster Session 1 + Happy Hour		
500000000000000000000000000000000000000	1 construction a 7 mappy most		
15/06 WEDNESDAY			
9:00 - 10:15	Ivan Huc		
Lecture 5	Title: Aromatic Foldamers: Engineering Molecular Shape		
Chairperson: Valentina Dichiarante			
10:15 - 10:45	Coffee Break		
10:45 - 12:00	Guido Clever		
Lecture 6	Title: Non-statistical Assembly of Functional Coordination Cages		
Chairperson: Giancarlo Terraneo			
12:00 - 13:45	Lunch		
13:45 - 15:00	Fabio Biscarini		
Lecture 7	Title: Organic Bioelectronics		
Chairperson: Gabriella Cavallo			
15:00 = 16:30	Group Project Activities		
16:30 = 18:00	Poster Session 2 + Happy Hour		
16/06 THURSDAY			
9:00 - 10:15	Michael Zaworotko		
Lecture 8	Title: Crystal Engineering: Then and Now		
Chairperson Pierangelo Metrongolo			
10:15 - 10:45	Coffee Break		
10:45 - 12:00	Despina Fragouli		
Lecture 9	Title: Reconsidering and Redeveloping Materials for a Sustainable Future		
Chairperson: Cristina Chirlesi			
12:00 - 13:45	Lunch		
13:45 = 15:00	Francesco Zerbetto		
Lecture 10	Title: Modelling and Simulations at Different Length- and Time-Scales		
Chairperson: Claudia Pigliacelli			
15:00 - 16:00	Group Project Activities + Coffee Break		
16:00 - 18:00	Project Presentations by Groups		
18:00 - 20:00	Excursion to Brunate		
20:00 - 23:00	Social Dinner – Brunate (Restaurant: Il Falchetto)		
17/06 FRIDAY			
9:00 - 10:15	Nathalie Katsonis		
Lecture 11			
Chairperson: Gabrielle Cavallo	<u>Title</u> : Supramolecular Systems in Motion		
10:15 = 10:45	Coffee Break		
	Francesca Baldelli Bombelli		
10:45 = 12:00			
10:45 = 12:00 Lecture 12 Chairperson: Fable Biscarini	Title: The Empowering Role of Nanotechnology in Medicine		

SBN School_flyer







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Lake Como School of Advanced Studies, June 13-17, 2022

Home Organizing Committee Programme Scientific Themes Speakers Sponsors & Patronages Main Activities

Application Registration Venue & Accommodation Contacts

Q



Scientific Themes

- · Fundamentals of High Performance Computing in chemistry and biology
- Principles of supramolecular chemistry
- · Nanomaterials and nanoparticles design
- Porous framework materials and their applications in storage, delivery, and separation
- · Self-assembled and supramolecular systems in medicine and nanomedicine
- Smart and biomimetic materials
- Design, synthesis, and characterization of artificial folded molecular architectures
- Peptides and proteins
- · Active and responsive molecular systems
- Sensors and transistors



Home







Speakers



1 st School of Supramolecular and Bio-Nanomaterials

Lake Como School of Advanced Studies, June 13-17, 2022

Application Registration

Organizing Committee

Venue & Accommodation

Programme

Contacts

Scientific Themes

Sponsors & Patronages

Main Activities

Q



Speakers



Athanassia Athanassiou – Istituto Italiano di Tecnologia (Italy)



Francesca Baldelli Bombelli - Politecnico di Milano (Italy)



Fabio **Biscarini** – Università degli studi di Modena e Reggio Emilia (Italy)



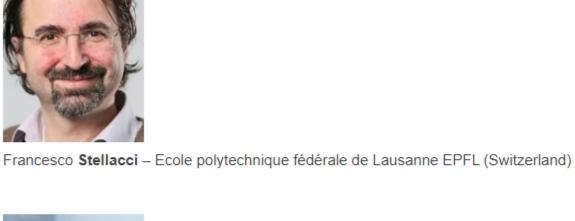
Guido Clever - Technische Universität Dortmund (Germany)















Francesco Zerbetto – Università di Bologna (Italy)

< Back to Lake Como School of Advanced Studies









1 st School of Supramolecular and Bio-Nanomaterials

Lake Como School of Advanced Studies, June 13-17, 2022

Home Organizing Committee Programme

Scientific Themes Speakers

Sponsors & Patronages

Main Activities

Application

Registration

Venue & Accommodation

Contacts

Q



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DIPARTIMENTO DI

CHIMICA, MATERIALI E INGEGNERIA CHIMICA "GIULIO NATTA"









DIPARTIMENTO DI

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Material Matters Merck Polymers in Drug Delivery Merck



1 st School of Supramolecular and Bio-Nanomaterials

Lake Como School of Advanced Studies, June 13-17, 2022

Home Organizing Committee Programme Scientific Themes Speakers Sponsors & Patronages Main Activities

Application Registration Venue & Accommodation Contacts

Q



Main Activities

The School is designed for PhD students, Post-Docs, and young scientists with various fields of interest, who aim at mastering the phenomena associated with molecular recognition and self-assembly, and the design and preparation of functional molecules and materials for a wide-range of high-end applications.

The School Program will be organized in **Lectures** followed by a dedicated **Question Time** coordinated by the Chair of the Session.

Poster presentations will be scheduled.

Project group and team building activities will be proposed.

In particular attendees will be asked to challenge themselves with the development of a **Research Project Idea** in the field of supramolecular and bio-nanomaterials. Students will be divided into groups of 5 attendees + 1 tutor for guiding the group activity. The organizing committee will identify a topic/problem and the group will develop a project/solution based on a school template. On the fourth day of the School (June 16), group representatives will be given 10 min to discuss the respective group project ideas.

A Prize will be awarded to the Best Research Project Idea and the Best Poster







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Lake Como School of Advanced Studies, June 13-17, 2022

Home Organizing Committee Programme Scientific Themes Speakers Sponsors & Patronages Main Activities

Registration Application Venue & Accommodation Contacts

Q



Application

APPLICATIONS ARE NOW CLOSED!

The school will be open to a maximum of **30 attendees**. Selection of participants will be based on a motivation letter and a CV (max 500 words + publications).

Registration fee is 300 € (VAT 22% included) and includes all lectures, course materials, Wi-Fi connection, welcome party, lunches, coffee breaks, and the social dinner.

The School provides significant but limited funds for the support of students and younger participants.

The support for selected applicants will include: free accommodation at the students' dormitory in the Villa del Grumello for the whole duration of the school.

Important Dates

OPENING OF THE ONLINE APPLICATION: March 1, 2022.

APPLICATION DEADLINE: April 30, 2022

ACCEPTANCE NOTICE: May 8, 2022

May 22, 2022. REGISTRATION DEADLINE:







Main Activities

1 st School of Supramolecular and Bio-Nanomaterials

Lake Como School of Advanced Studies, June 13-17, 2022

Sponsors & Patronages Home Organizing Committee Programme Scientific Themes Speakers

Venue & Accommodation Application Registration Contacts

Q



Registration

Registrations are closed.



1 st School of Supramolecular and Bio-Nanomaterials

Lake Como School of Advanced Studies, June 13-17, 2022

Home Organizing Committee Programme Scientific Themes Speakers Sponsors & Patronages Main Activities

Application Registration Venue & Accommodation Contacts

Q



Venue & Accommodation

The School is housed at Villa del Grumello, which is set in a stunning park overlooking the first basin of the Como lake .

It is framed by century-old trees and enchants its visitors with its delicate atmosphere and its harmonious setting.

Driving force of the development of the Larian area, the Villa is a reference point for culture, science, and the business community. Returned to its original prestige, it meets the diverse requirements of its new role as a leading centre for the City of Como. A venue of international significance, the Villa is the ideal location to host conventions, conferences, courses, meetings, fashion shows, and art events.





How to get there

Click here for information on how to reach Como

Villa del Grumello is 20 min on foot from Como city center – you can also take a bus, lines 6 and 11 (bus stop: "Como Via Regina Piscine Villa Olmo", just after "Villa Olmo").

From the main Train Station (Como S. Giovanni), the nearest bus stop to catch line 6 and 11 is "Piazzale Rocchetto".

Click here for a map

Accommodation

Lake Como structures offer participants a variety of accommodation possibilities to meet all needs. HERE you can find a list of selected facilities.

It is possible to book directly at the Hostel Ostello Bello (https://ostellobello.com/it/ostello/ostello-bello-como-lake/; email: booking.como@ostellobello.com). The hostel is 15 minutes walking from Villa del Grumello and it is possible to get a discount reporting you are attending a School organized by Fondazione Alessandro Volta.







Speakers



1 st School of Supramolecular and Bio-Nanomaterials

Lake Como School of Advanced Studies, June 13-17, 2022

Home Organizing Committee Programme

Scientific Themes

Sponsors & Patronages

Main Activities

Application

Registration

Venue & Accommodation

Contacts

Q



Contacts

Scientific Secretariat

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Organizing Secretariat

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