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1st International School on Advanced Porous Materials

VILLA DEL GRUMELLO

COMO, June 17-21, 2019

Home

It is a great pleasure for us to welcome you to the
First International School on Advanced Porous Materials (MOFSchool)

Metal-organic Frameworks (MOFs) and **Covalent-organic Frameworks** (COFs) are non-conventional porous materials based on the self-assembly of organic/inorganic and organic/organic prearranged synthons, respectively. The extensive library of synthons and synthetic conditions can lead to the formation of a wide variety of MOFs and COFs with functional properties – adsorption, separation, capture, heterogeneous catalysis, sensing, drug delivery, to quote a few – that outperform, in many aspects, those of classical porous materials.

This field of research is progressing very fast, evolving from an initial interest on the synthesis and characterization of these systems to the preparation of targeted advanced porous materials with exotic properties.

Advanced porous materials functional properties are of interest to the ever increasingly demanding technological sector. Consequently, unique products based on them are arriving (or will soon arrive) on the market. Yet, there is still a large playground for making new materials and/or improving the properties of existing ones.

The big question is: How can we do it??

The MOFSchool aims to provide you with tools to answer this question, by showing you how to rationally prepare, characterize, modify and shape MOFs and COFs into next-generation materials. In order to achieve this goal, we have gathered an impressive group of internationally recognized teachers, including Vladislav A. Blatov, Silvia Bordiga, Roland A. Fischer, Felipe Gándara, Rob Ameloot, Kirill A. Lomachenko, Jeffrey R. Long, Jorge A.R. Navarro, Davide M. Proserpio and Omar M. Yaghi"

The MOFSchool, jointly organized by the Universities of Insubria, Milano La Statale and Granada, has made a great effort to encourage participation of young, enthusiastic scientists from any corner of the world, for which we are gratefully indebted to our generous **funders**.

**We are looking forward to welcoming you to Villa del Grumello
and we are sure you will have a very fruitful and pleasant stay on the amazing shores of the Lake of Como!**

Sincerely yours,

Valentina Colombo, Simona Galli and Jorge A.R. Navarro (School Directors)



COMO, ITALY
VILLA DEL GRUMELLO
June, 17-21 2019

1st International School on Advanced Porous Materials

LECTURERS




Vladislav A. Blatov
Silvia Bordiga
Valentina Colombo
Roland A. Fischer
Simona Galli
Felipe Gándara
Jeffrey R. Long
Jorge A.R. Navarro
Rob Ameloot
Davide M. Proserpio
Omar M. Yaghi

PROGRAM

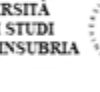

Metal-organic frameworks (MOFs) and Covalent Organic Frameworks (COFs) are highly porous materials obtained through the self-assembly of organic/inorganic or organic building blocks. The availability of a vast library of building blocks, together with the possibility of tuning the reaction conditions and introducing post-synthetic modifications, leads to *à la carte* preparation of materials showing attractive functional properties – from capture to storage, separation, sensing, heterogeneous catalysis, drug delivery. The School will gather some of the leading experts in the field and will cover the current research advances in metal-organic and covalent-organic frameworks synthesis, characterization techniques and applications.

SCHOOL DIRECTORS: Valentina Colombo, Simona Galli and Jorge A.R. Navarro

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UNIVERSIDAD DE GRANADA

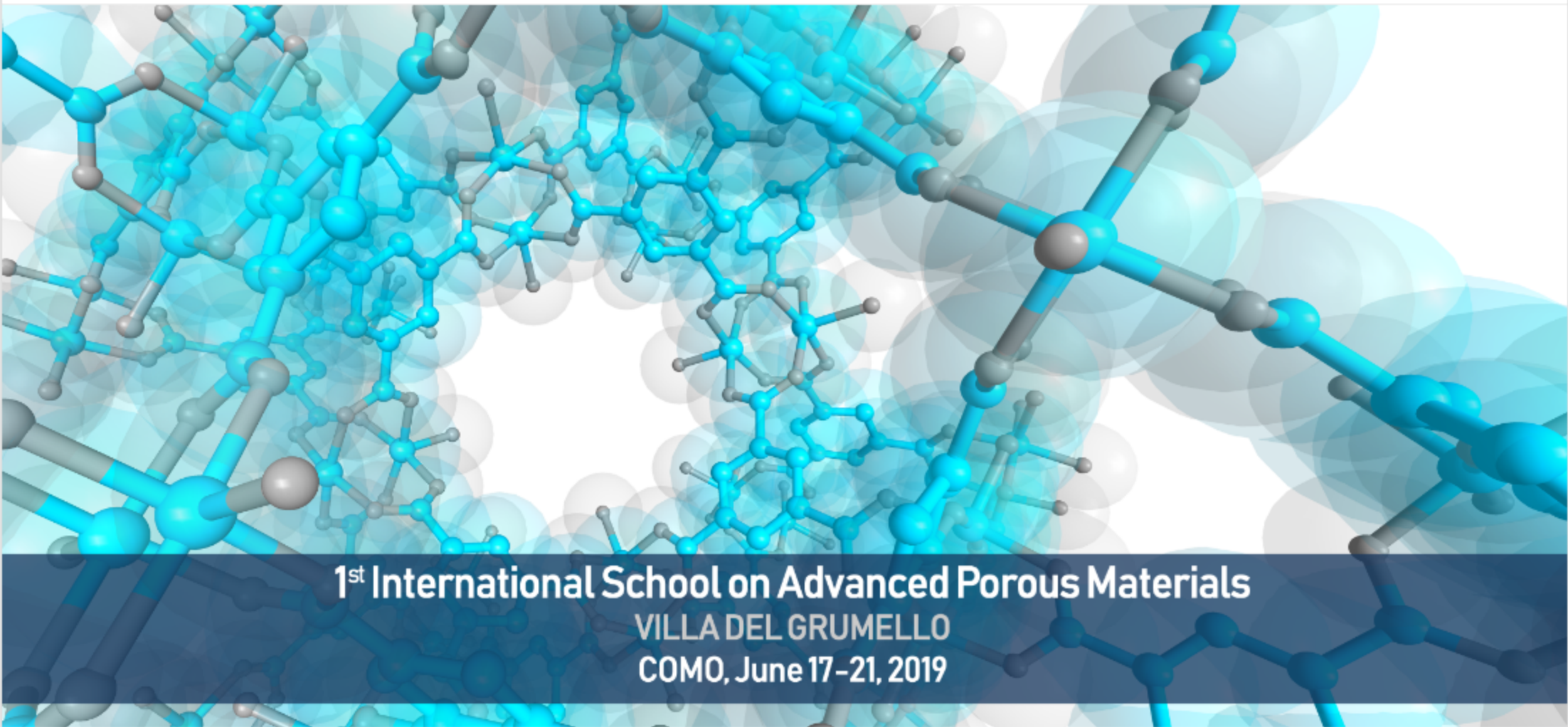
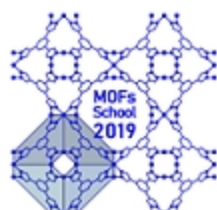
APPLICATION: application opens on December, 10th 2018. The School is open to maximum 50 scholars - selection will be made on CVs. School fee is 250 € (VAT 22% included) and includes lectures, course material, Wi-Fi connections, welcome party, lunches, coffee breaks. WEB: MOFs.lakecomoschool.org

SHORT TALKS and POSTER SESSION are available for attendees!

GRANTS for deserving Scholars are available from:



Download the **flyer** (pdf) of the school.



Application

Applications are now CLOSED, please contact the Scientific Committee for any enquiry.

MOFSchool is open to a maximum of 50 Scholars.

HOW TO APPLY: Potential Scholars must fill out and submit the form available below and upload a one-page document concisely describing their educational background, present position, research interests, and motivations for participating in MOFSchool. Instructions on how to draft the motivation letter are available [here](#).

Bursaries are available to support Scholars' participation in the form of (partial) covering of the accommodation and/or travel expenses. Scholars eligible to apply for a bursary must be

- undergraduate students
- PhD students
- post-doc fellows

with a maximum age of 35.

Bursaries are available from:

- [Berkeley Global Science Institute](#) (BGSi) to fully cover the expenses of three scholars from extra-Europe, less developed countries.
- [International Union of Crystallography](#) (IUCr) to cover the expenses of graduate or post-graduate students and post-doc fellows, with a maximum age of 30, preferably from developing countries. IUCr Scientific Freedom Policy Statement The Organizing Committee of the First International School on Advanced Porous Materials shall observe the basic policy of non-discrimination and affirms the right and freedom of scientists to associate in international scientific activity without regard to such factors as ethnic origin, religion, citizenship, language, political stance, gender, sex or age, in accordance with the Statutes of the International Council for Science. At this School no barriers will exist which would prevent the participation of bona fide scientists.
- [Italian Crystallographic Association](#) (AIC) to support the participation of undergraduate students, PhD students or post-doc fellows.
- [European Crystallographic Association](#) (ECA) to support the participation of EU undergraduate students, PhD students or post-doc fellows.
- [Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali](#) (INSTM) to support the participation of undergraduate students, PhD students or post-doc fellows.
- [Micromeritics Instruments Corp.](#) to support the participation of undergraduate students, PhD students or post-doc fellows.

POSTER SESSION: Young participants willing to present a poster should declare it in the application form and provide abstract according to the [template](#).

SHORT-TALK SESSION: Young participants willing to give a 10-minute talk should declare it in the application form and provide an abstract according to the [template](#).

In case of a larger number of proposals the School Directors will select based on the potential interest to the audience, the coherence with the aim and scope of MOFSchool, and the diversification of topics.

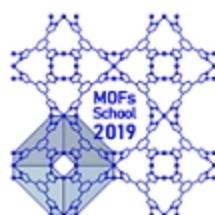
IMPORTANT DATES:

Application opening	December, 10 th 2018
Application closure	February, 15th 2019
Notification of application acceptance	March, 30th 2019
Fee payment within [1]	April, 5 th 2019

[1] The fee must be paid only AFTER the final acceptance of the application.

REGISTRATION FEES: The school fee is 250 € (VAT 22% included) and includes all lectures, course material, Wi-Fi connections, welcome party, lunches, coffee breaks. The fee must be paid only AFTER the final acceptance of the application.



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1st International School on Advanced Porous Materials

VILLA DEL GRUMELLO
COMO, June 17-21, 2019

Protetto: Fee payment

Il contenuto è protetto da password. Per visualizzarlo inserisci di seguito la password:

Password:

Invio

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1st International School on Advanced Porous Materials

VILLA DEL GRUMELLO
COMO, June 17-21, 2019

Venue & Accommodation

VENUE:



The School will be held in the beautiful [Villa del Grumello](#), via per Cernobbio, 11 – Como, Italy, located within a park over the lake of Como. Villa del Grumello is 20 minutes on foot from Como city centre. Detailed information on how to get to the Villa can be found [here](#).



ACCOMMODATION:

▪ Ostello Bello

The youth hostel [Ostello Bello](#) offers a low-price accommodation, from 36,90 Euros *per* night and person in shared dormitories. The hostel is 15 minutes on foot from Villa del Grumello.

▪ Hotels

A non-exhaustive list of three-star hotels is provided here:

Hotel	Address	Phone
Continental Como	Viale Innocenzo XI 15, Como	+39 031 260485
Firenze	P.zza Volta 16, Como	+39 031 300333
Engadina	Viale Rosselli 22, Como	+39 031 570008
Plinius	Via Garibaldi 33, Como	+39 031 273067
Tre Re	Piazza Boldoni 20, Como	+39 031 265374

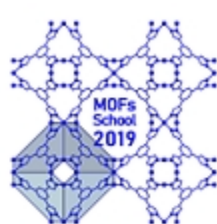
A map highlighting hotels in Como and surroundings can be found [here](#).

Important! For all school speakers and attendees!

We have learned that third part companies are contacting school speakers and attendees offering to make travel arrangements (hotel and flight bookings) on our behalf and asking for credit card details in order to proceed. PLEASE NOTE these agencies are not authorized by us, this is most likely a fraud.

For any doubt do not hesitate to contact us. Thank you!





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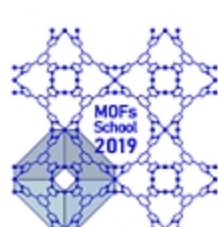
1st International School on Advanced Porous Materials

VILLA DEL GRUMELLO
COMO, June 17-21, 2019

Program

Provisional Program

<div><div>1st International School on Advanced Porous Materials Como, Villa del Grumello, June 17th-21st</div></div>				
	MONDAY 17th	TUESDAY 18th	WEDNESDAY 19th	THURSDAY 20th
9.00 am		Omar M. Yaghi (9.00 - 10.30) Molecular Weaving in Crystals	Felipe Gándara (9.00 - 10.30) Single Crystal X-Ray Diffraction on Reticular Materials	Roland Fischer (9.00 - 10.30) Flexibility in MOFs
10.00 am		Coffee Time	Coffee Time	Coffee Time
11.00 am		Davide M. Proserpio & Vladislav A. Blatov (11.00 - 12.30) The Role of Topology in MOFs and COFs	Valentina Colombo (11.00 - 12.00) In Situ X-Ray Diffraction	Jeffrey R. Long (11.00 - 12.30) Applications of Flexible MOFs in Gas Storage and Separation
12.00 pm		Sponsor Talks (12.30 - 1.00)	Rob Ameloot (12.00 - 1.00) From the Lab to the Fab: Bringing MOFs into Microelectronics	Jeffrey R. Long (11.00 - 12.30) Cooperative Adsorption and Gas Separations in MOFs
1.00 pm		Lunch	Lunch	Lunch
2.00 pm	Registration & Welcome			Poster Prize & Closing (12.30 - 1.00)
3.00 pm		Davide M. Proserpio & Vladislav A. Blatov (2.30 - 4.30) Hands-on Session	Silvia Bordiga (2.30 - 4.00) Vibrational Spectroscopies to Understand Structure and Function of MOFs	Jeffrey R. Long (2.00 - 3.30) Coordinatively-Unsaturated Metal Sites in MOFs
4.00 pm	Omar M. Yaghi (3.30 - 5.00) Introduction to Reticular Chemistry: MOFs, COFs & ZIFs	Coffee Time	Coffee Time	Coffee Time
5.00 pm	Omar M. Yaghi (5.00 - 6.30) Frameworks for Addressing Climate Change	Davide M. Proserpio & Vladislav A. Blatov (5.00 - 7.00) Hands-on Session	Flash Presentations & Poster Session (4.30 - 7.00)	Roland Fischer (4.00 - 5.30) Defects Engineering of MOFs
6.00 pm				Poster Session (5.30 - 7.00)
7.00 pm	Garden Party			
8.00 pm				
9.00 pm	Omar M. Yaghi (8.30 - 9.30) Evening Lecture: Profs and Students Unfold Stories			



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1st International School on Advanced Porous Materials

VILLA DEL GRUMELLO
COMO, June 17–21, 2019

Lecturers



Vladislav A. Blatov

Department of Physical Chemistry and Chromatography
Samara University, Samara, Russia



Silvia Bordiga

Department of Chemistry
University of Turin, Turin, Italy



Valentina Colombo

Department of Chemistry
University of Milan, La Statale, Milan, Italy



Roland A. Fischer

Department of Chemistry
Technical University of Munich, Munich, Germany



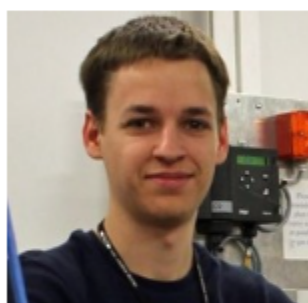
Felipe Gándara

Materials Science Institute,
CSIC, Madrid, Spain



Rob Ameloot

Center for Surface Chemistry and Catalysis
KU Leuven



Kirill A. Lomachenko

European Synchrotron Radiation Facility



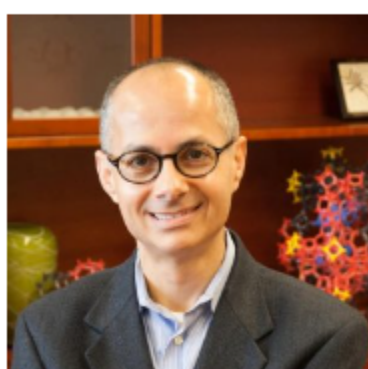
Jeffrey R. Long

Department of Chemistry
University of California, Berkeley, United States



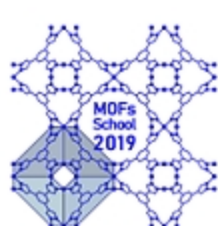
Davide M. Proserpio

Department of Chemistry
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Omar M. Yaghi

Department of Chemistry
University of California, Berkeley, United States

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COMO, June 17-21, 2019

Scientific & Organizing Committee



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COLLABORATORS

Sara Durini (Catalysis Centre, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia).

Marco Moroni (Department of Science and High Technology, University of Insubria, Como, Italy)

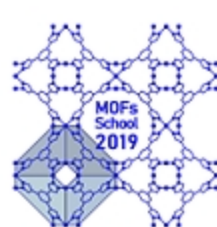
Simona Sorbara (Department of Chemistry, University of Milan, Milan, Italy)

Stephanie Terruzzi (Department of Chemistry, University of Milan, Milan, Italy)

Rebecca Vismara (Department of Science and High Technology, University of Insubria, Como, Italy)

Marco Vandone (Department of Chemistry, University of Milan, Milan, Italy)

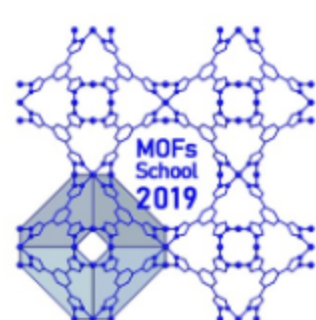


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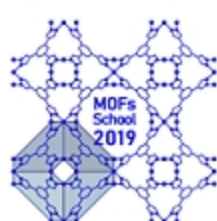
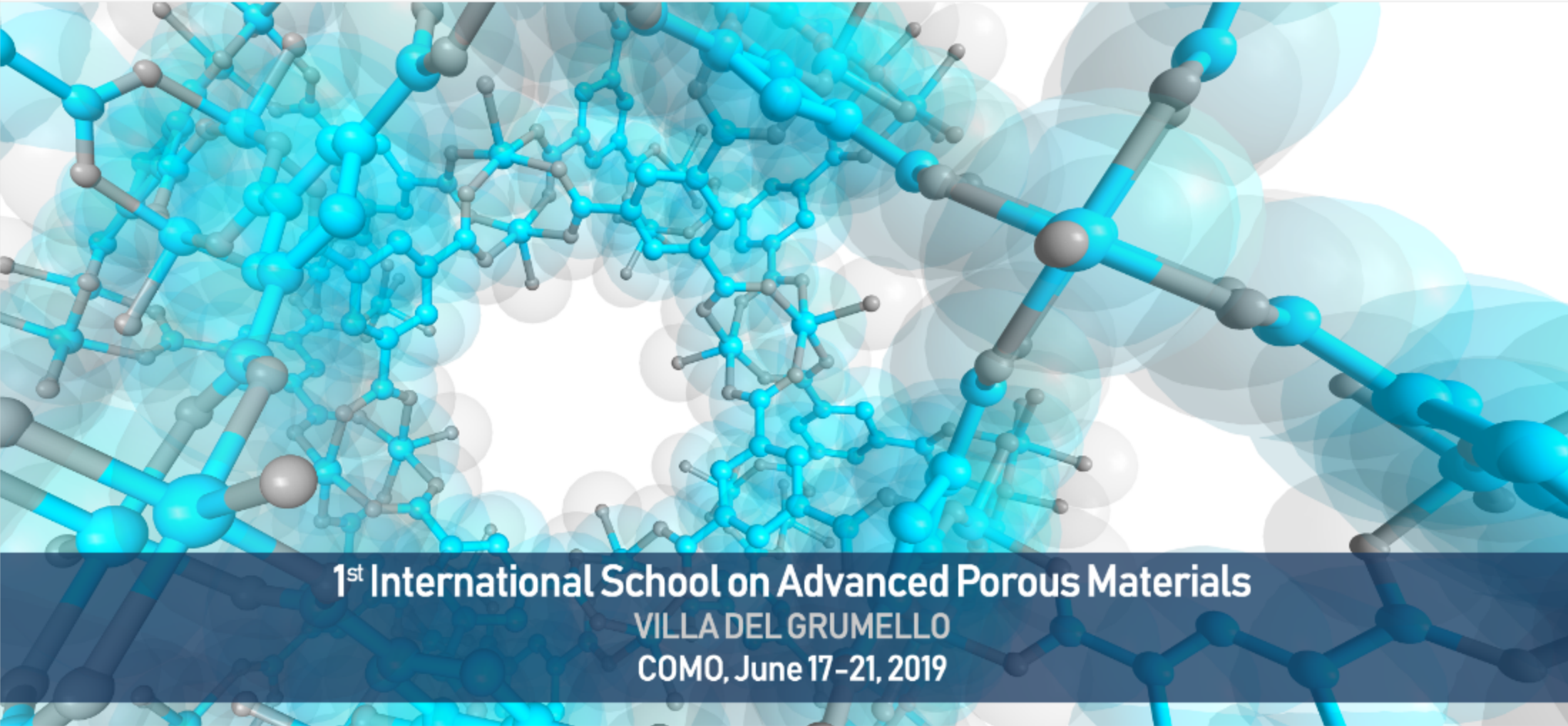


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1st International School on Advanced Porous Materials

VILLA DEL GRUMELLO
COMO, June 17-21, 2019

Contacts

For enquiries about the **scientific aspects of the School**, please contact:

Valentina Colombo (valentina.colombo@unimi.it)

Simona Galli (simona.galli@uninsubria.it)

Jorge A.R. Navarro (jarn@ugr.es)

For enquiries about the **organizational aspects of the School**
(**venue, travel, accommodation** and **application** procedure), please contact:

Alessandra Cazzaniga (alessandra.cazzaniga@fondazionealessandrovolta.it)
at Fondazione Alessandro Volta, Como.