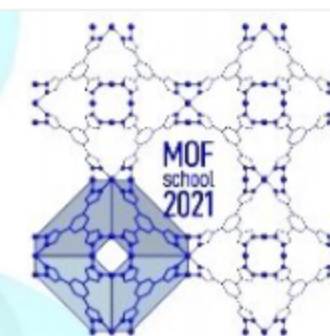
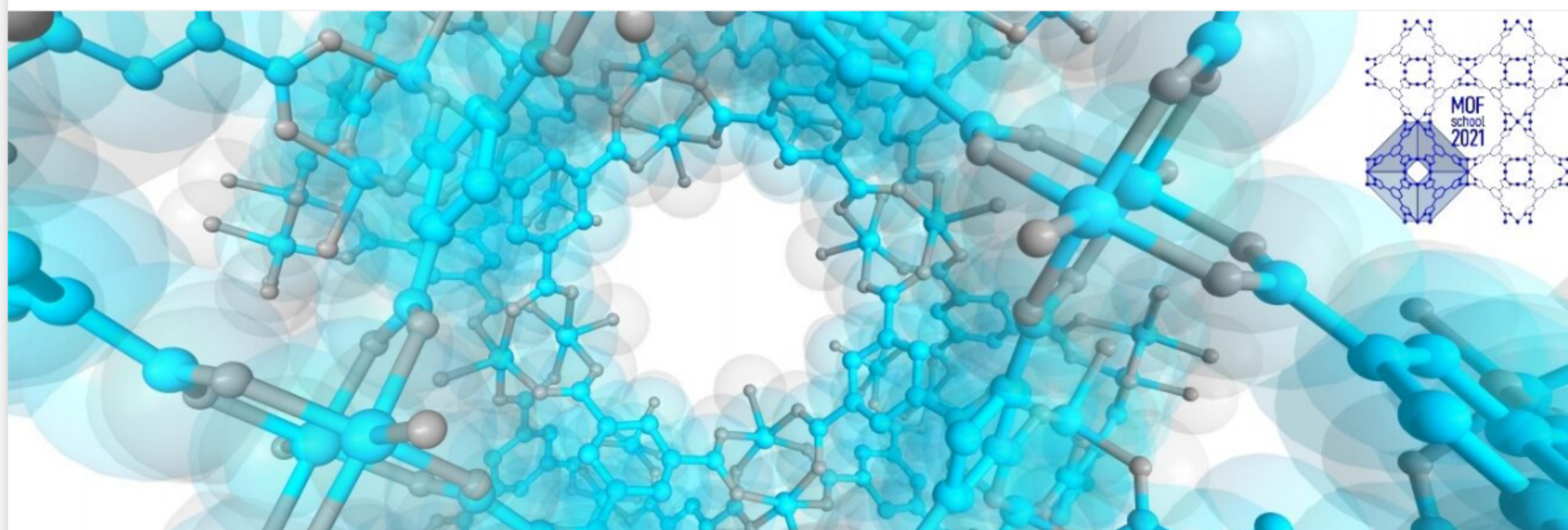


2nd International School on Porous Materials: MOFschoo2021

Lake Como School of Advanced Studies, 21-25 June 2021

[Home](#) [Application](#) [Poster Session](#) [Daily program](#) [Lecturers](#) [Scientific and Organizing Committee](#) [Contacts](#) [Sponsors](#)

[Registration](#)



Home

Based on the Italian government guidelines in force until July 1st 2021 about the organization of conferences and schools during the COVID-19 pandemic, MOFschoo2021 will be held as a completely in-remote event.

It is a great pleasure for us to welcome you to the Second International School on Porous Materials (MOFschoo2021)

Metal-organic Frameworks (MOFs) and **Covalent organic Frameworks (COFs)** are advanced porous materials deriving from the linking of (organic/inorganic and organic/organic) building units. In the past twenty years, the broad library of building units and synthetic conditions has allowed the preparation and consequent investigation of a huge number of MOFs and COFs showing intriguing functional properties – adsorption, separation, heterogeneous catalysis, sensing, drug delivery, to list a few – that outperform, in many aspects, those of classical porous materials.

In a number of occasions, the functional properties and potential applications of these non-conventional porous materials has prompted their appearance on the market or testing in technologically relevant devices. Despite this, there still exists a large playground for isolating new substances and/or improving the properties of existing ones.

As this vast and interdisciplinary research field is advancing at a very fast pace, two years after the success of the first International School on Porous Materials we feel that times are mature to propose a second edition of the event, **MOFschoo2021**, despite the restrictions imposed by the Covid-19 pandemic.

To the aim, **MOFschoo2021** lecturers panel can count on a number of internationally recognized scientists, including Silvia Bordiga, Elisa Borfecchia, Jose Casaban, Valentina Colombo, Mircea Dincă, Roland Fischer, Felipe Gándara, Jorge Gascón, Carlos Martí-Gastaldo, Stuart James, Stefan Kaskel, Piero Macchi, Carlos Martí-Gastaldo, Jorge A.R. Navarro, Davide M. Proserpio, and Omar M. Yaghi.

MOFschoo2021, 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 all over the world, for which we are gratefully indebted to our generous funders.

We are looking forward to welcoming you, possibly to Villa del Grumello and we are convinced you will spend a very fruitful time during the School!

Sincerely yours,

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

2nd INTERNATIONAL SCHOOL ON POROUS MATERIALS #MOFschoo
VILLA DEL GRUMELLO, COMO, ITALY
21-25 JUNE 2021

LECTURERS
Silvia Bordiga
Elisa Borfecchia
Jose Casaban
Valentina Colombo
Mircea Dincă
Roland Fischer
Felipe Gándara
Jorge Gascón
Carlos Martí-Gastaldo
Stuart James
Stefan Kaskel
Piero Macchi
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Omar M. Yaghi

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PROGRAM
Metal Organic frameworks (MOFs) and Covalent Organic Frameworks (COFs) are highly porous materials obtained through the linking 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 a large variety of materials showing attractive functional properties - from storage to 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

INFORMATION & REGISTRATION forms are available on the web at <https://mofs2021.lakecomoschool.org/>

SHORT TALKS & POSTER SESSION are available for attendees! **GRANTS** for deserving Scholars are available from:

Twitter

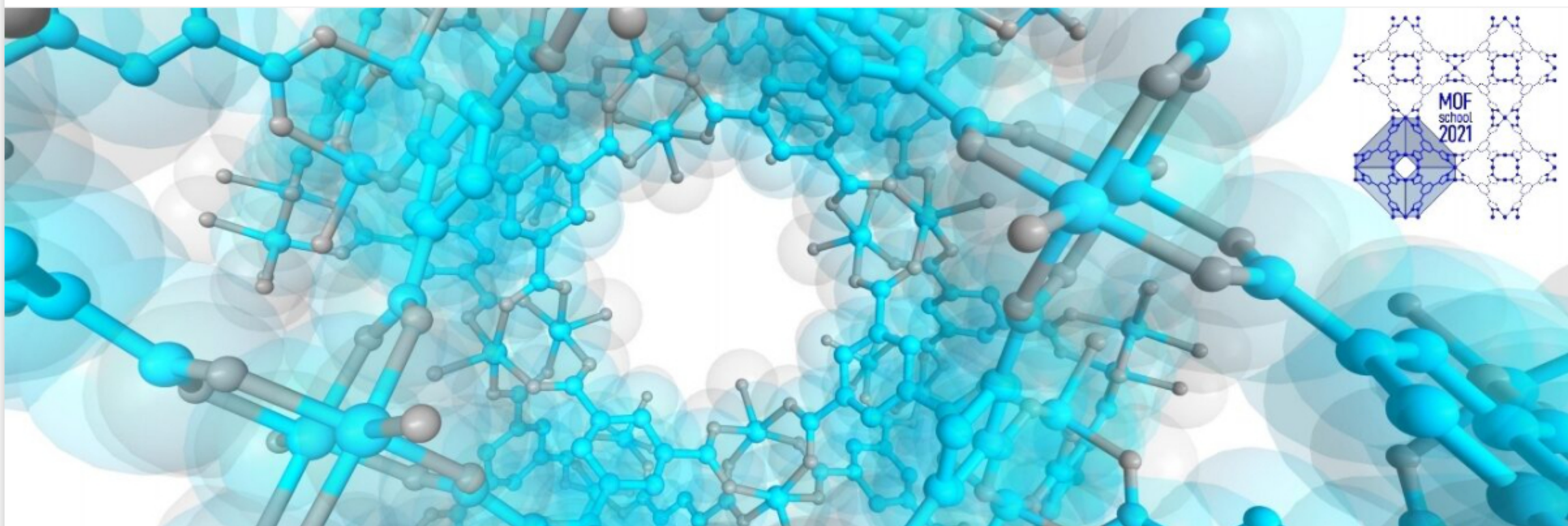




2nd International School on Porous Materials: MOFschoo2021

Lake Como School of Advanced Studies, 21-25 June 2021

Home Application Poster Session Daily program Lecturers Scientific and Organizing Committee Contacts Sponsors
Registration



Application

Applications to participate are now CLOSED.

The School is open to undergraduate, graduate or PhD students as well as post-doctoral fellows with a maximum age of 35 years old in 2021.

A maximum of 100 Scholars will be hosted in remote.

HOW TO APPLY: Applicants 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 MOFSchool2021. 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 fee. Bursaries have been provided by:

- [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.
- [National Interuniversity Consortium of Materials Science and Technology \(INSTM\)](#) to support Italian undergraduate students, PhD students or post-doc fellows possibly INSTM associates.

REGISTRATION FEES: 100 € (VAT 22% included), including lectures and course material. The fee must be paid by all the Scholars only AFTER the final acceptance of their application.

IMPORTANT DATES:

Application opening	May, 3 rd 2021
Application closure	June, 1 st 2021
Notification of application acceptance	June, 8 th 2021
Fee payment within	June, 12 th 2021

POSTER SESSION: Take part into the MOFschoo2021 Poster Contest! To prepare and share your poster during the Poster Session, please consult the brand new dedicated page.

SHORT-TALK SESSION: Young participants willing to give a flash presentation should declare it in the application form and provide an abstract according to the [template](#). In case of a large number of flash-presentation proposals, the School Directors will make a selection based on the potential interest to the audience, the coherence with the aim and scope of MOFschoo2021, and the diversification of topics.

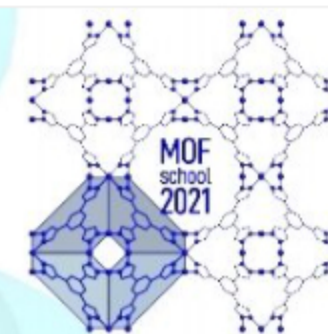
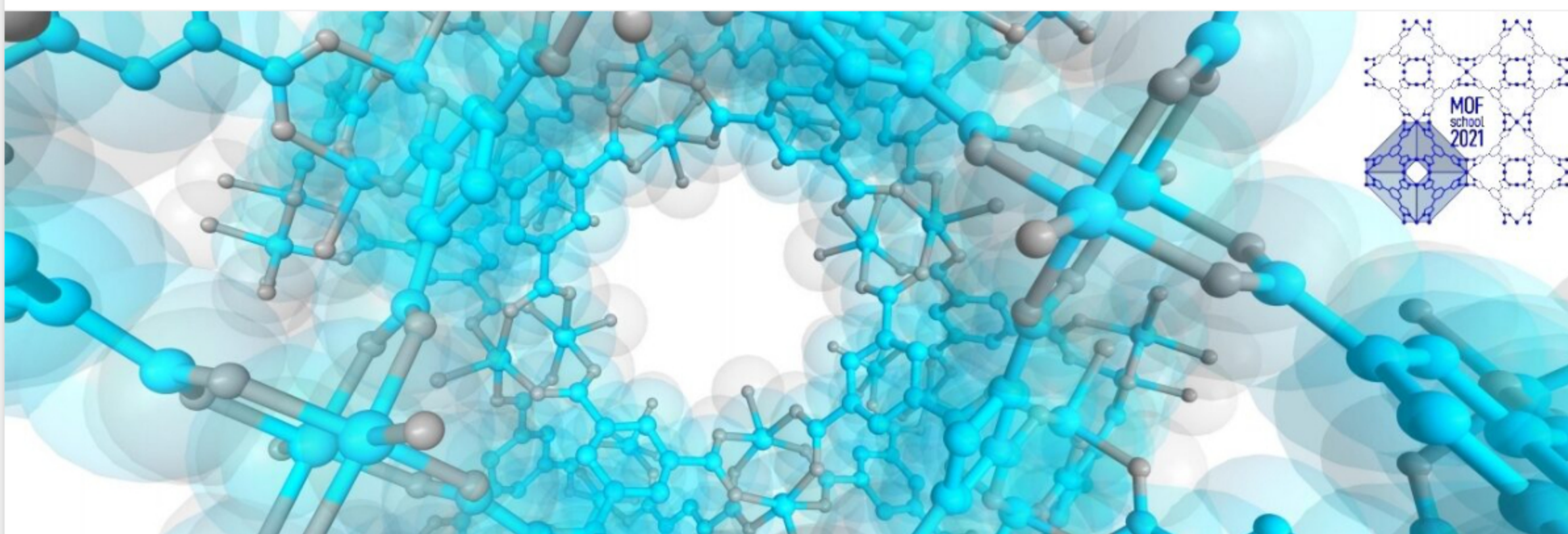
APPLICATION FORM

Applications are closed. You can contact the Organizing Secretariat to check if there are any available seats by sending an email to alessandra.cazzaniga@fondazionealessandrovolta.it.



2nd International School on Porous Materials: MOFschooL2021

Lake Como School of Advanced Studies, 21-25 June 2021

[Home](#)[Application](#)[Poster Session](#)[Daily program](#)[Lecturers](#)[Scientific and Organizing Committee](#)[Contacts](#)[Sponsors](#)[Registration](#)

Poster Session

MOFSCHOOL2021 POSTER CONTEST

How to participate:

- You need a **personal Twitter account**.
- Set your **Twitter profile to public** for the duration of the poster session.
- Only **tweet your poster once** and from your personal Twitter account.
- **Tweet** your poster with a title, the hashtags **#MOFschooL** and **2ndMOFschooL-Poster** and any relevant subject hashtag(s) during the poster session on June 23rd and 24th between 9:00 am and 6:00 pm (Italian time, UTC + 2 hours).
- Ensure that your poster is available for the whole poster session.
- Do not delete and repost your poster during the poster session.
- **Discuss** and **engage** throughout the poster session; make sure to answer the questions from the community and the Prize Committee, and comment on other **2ndMOFschooL-Posters**. We need your contribution to make MOFschooL2021 Poster Contest a great event!
- Block and report spurious comments on your poster.
- **Win** a prize if your **2ndMOFschooL-Poster** is deemed best by the Prize Committee or the audience.

Poster design guidelines:

- Upload your poster as an image. JPEG, PNG and GIF formats are compatible with Twitter. Maximum size 5 MB.
- Make an image specifically for this event. Recommended image dimensions are of 2:1 aspect ratio for landscape, but you can use standard poster dimensions (A4, A0) as long as the content is legible (suggested font size 16 for A4 and 60 for A0). We recommend testing your poster on Twitter before the conference to make sure you are happy with your image. Check out this blog post for some top tips for making posters with Twitter: <http://betterposters.blogspot.com/2019/02/top-tips-for-twitter-posters.html>.
- Check some other guidelines on using [Twitter](#) or on how to improve your poster [here](#).
- Please be mindful of appropriate permissions while presenting copyright images.

Prizes and judging criteria:

The Prize Committee will review the posters via Twitter during the poster session on June 23rd and 24th between 9:00 am and 6:00 pm (Italian time, UTC + 2 hours). Up to **three prizes** will be available **for the best three posters** (two of them chosen by the Prize Committee and one from the audience on the basis of number of likes and retweets). Prizes will be announced during the closing session of MOFschooL2021, on June 25th 2021.

The following criteria will be adopted by the Prize Committee:

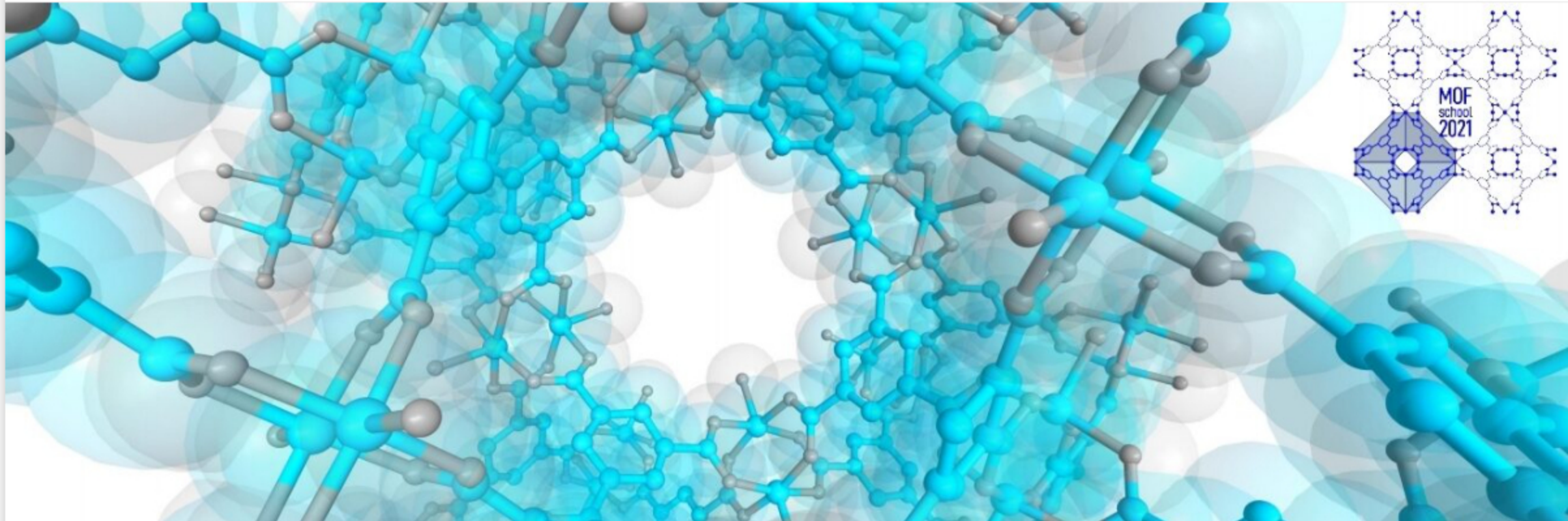
- Originality of the research presented
- Comprehensiveness of the content
- Comments/Answers to questions
- Poster Design

One of the prizes is kindly offered by ELDICO SCIENTIFIC AG and consists in the possibility of having a sample measured by electron diffraction by the company.

2nd International School on Porous Materials: MOFschoo2021

Lake Como School of Advanced Studies, 21-25 June 2021

- [Home](#)[Application](#)[Poster Session](#)[Daily program](#)[Lecturers](#)[Scientific and Organizing Committee](#)[Contacts](#)[Sponsors](#)
- [Registration](#)



Daily program

(GMT time + 2 hours)

Monday 06/21/21

- 15.00 – 15.30Welcome Time
- 15.30 – 17.00Omar M. Yaghi – Reticular Chemistry I: MOFs, Multi-variation, and Sequences
- 17.00 – 18.30Omar M. Yaghi – Reticular Chemistry II: COFs, Linkages, and Molecular Weaving
- 18.30 – 20.00Dinner
- 20.00 – 21.30Omar M. Yaghi – Reticular Chemistry III: Water Harvesting from Air Anywhere at Anytime (Evening Lecture)

Tuesday 06/22/21

- 9.00 – 10.30Stefan Kaskel – Flexibility, Switchability and other Dync Phenomena in Porous Metal-Organic Frameworks
- 10.30 – 11.00Coffee Time
- 11.00 – 12.30Stefan Kaskel – Advanced in situ-Characterization Techniques for Porous Metal-Organic Frameworks
- 12.30 – 14.00Lunch
- 14.00 – 15.30Stuart James – Porous Liquids: A new Phase for Porous Materials
- 16.30 – 17.00Coffee Time
- 17.00 – 18.30Jorge A. R. Navarro – Metal-Organic Framework Based Materials for Capture, Separation and Degradation of Toxic Gases
- 18.00 – 19.00Jose Casaban – Towards MOFs' Mass Market Adoption

Wednesday 06/23/21 > Poster Session on Twitter (9.00 – 18.00)

- 9.00 – 10.00Felipe Gándara – Single Crystal X-ray Diffraction with Reticular Materials
- 10.00 – 10.30Coffee Time
- 10.30 – 11.30Valentina Colombo – In situ Powder and Single Crystal X-ray Diffraction with MOFs
- 11.30 – 12.30Piero Macchi – Putting MOFs Under Pressure
- 12.30 – 14.00Lunch
- 14.00 – 15.30Jorge Gascón – MOFs in Heterogeneous Catalysis: Advantages, Limitations and Opportunities
- 15.30 – 16.00Flash Presentations – session 1
- 16.00 – 16.30Coffee Time
- 16.30 – 18.30Davide Proserpio – Topological Analysis of Reticular Framework Materials with ToposPro

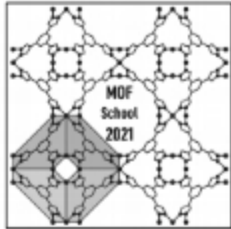
Thursday 06/24/21 > Poster Session on Twitter (9.00 – 18.00)

- 9.00 – 10.30Mircea Dincă – Electrically Conductive MOFs
- 10.30 – 11.00Coffee Time
- 11.00 – 12.30Mircea Dincă – Site-isolated Catalysis with MOFs
- 12.30 – 14.00Lunch
- 14.00 – 14.30Flash Presentations – session 2
- 14.30 – 17.30Silvia Bordiga & Elisa Borfecchia – Understanding MOFs by Spectroscopic Methods: Fundamentals and Selected Applications to UiO MOFs
- 17.30 – 18.00Coffee Time
- 18.00 – 18.30Flash Presentations – session 3

Friday 06/25/21

- 9.00 – 10.00Roland Fischer – Photophysical, NLO and Multi-photon Absorption/Upconversion Properties of MOFs
- 10.00 – 10.30Coffee Time
- 10.30 – 11.30Roland Fischer – SURMOF-derived Electrocatalyst Materials for OER/ORR (Water Splitting/Fuel cells)
- 11.30 – 12.30Carlos Martí-Gastaldo – Charge Transport, Photoactivity and Chemical Reactivity in Metal-Organic Frameworks
- 12.30 – 13.00Poster Prize & Closing Remarks

MONDAY 21 st	TUESDAY 22 nd	WEDNESDAY 23 rd	THURSDAY 24 th	FRIDAY 25 th
	<div>Stefan Kaskel (9.00-10.30) Flexibility, switchability and other dynamic phenomena in porous MOFs</div>	<div>Felipe Gándara (9.00-10.00) Single crystal X-ray diffraction with reticular materials</div>	<div>Mircea Dincă (9.00-10.30) Electrically conductive MOFs</div>	<div>Roland Fischer (9.00-10.00) Photophysical, NLO and multi-photon properties of MOFs</div>
	Coffee time	Coffee time	Coffee time	Coffee time
	<div>Stefan Kaskel (11.00-12.30) Advanced in situ-characterization techniques for porous MOFs</div>	<div>Valentina Colombo (10.30-11.30) In situ powder and single crystal X-ray diffraction with MOFs</div>	<div>Mircea Dincă (11.00-12.30) Site-isolated catalysis with MOFs</div>	<div>Roland Fischer (10.30-11.30) SURMOF-derived electrocatalyst materials for OER/ORR</div>
	Lunch (12.30-14.00)	Lunch (12.30-14.00)	Lunch (12.30-14.00)	<div>Carlos Martí-Gastaldo (11.30-12.30) Charge transport, photoactivity and chemical reactivity in MOFs</div>
	<div>Stuart James (14.00-15.30) Porous liquids: a new phase for porous materials</div>	<div>Jorge Gascón (14.00-15.30) MOFs in heterogeneous catalysis: advantages, limitations and opportunities</div>	Flash presentations (14.00-14.30)	Closing remarks (12.30-13.00)
Welcome time (15.00-15.30)	Coffee time	Flash presentations (15.30-16.00)	<div>Silvia Bordiga & Elisa Borfecchia (14.30-17.30) Understanding MOFs by spectroscopic methods: fundamentals and selected applications to UiO MOFs</div>	
<div>Omar M. Yaghi (15.30-17.00) Reticular chemistry I: MOFs, multi-variation and sequences</div>	<div>Jorge Navarro (16.00-17.00) MOF based materials for capture, separation and degradation of CWAs</div>	Coffee time	Coffee time	
<div>Omar M. Yaghi (17.00 - 18.30) Reticular chemistry II: COFs, linkages and molecular weaving</div>	<div>Jose Casaban (17.00-18.30) MOF technologies towards MOFs' mass market adoption</div>	<div>Davide Proserpio (16.30-18.30) Topological analysis of reticular framework materials with ToposPro</div>	Flash presentations (18.00-18.30)	
Dinner (18.30-20.00)				
<div>Omar M. Yaghi (20.00-21.30) Reticular chemistry III: water harvesting from air anywhere at anytime</div>		<div>Poster session on Twitter (9.00-18.00)</div>	<div>Poster session on Twitter (9.00-18.00)</div>	



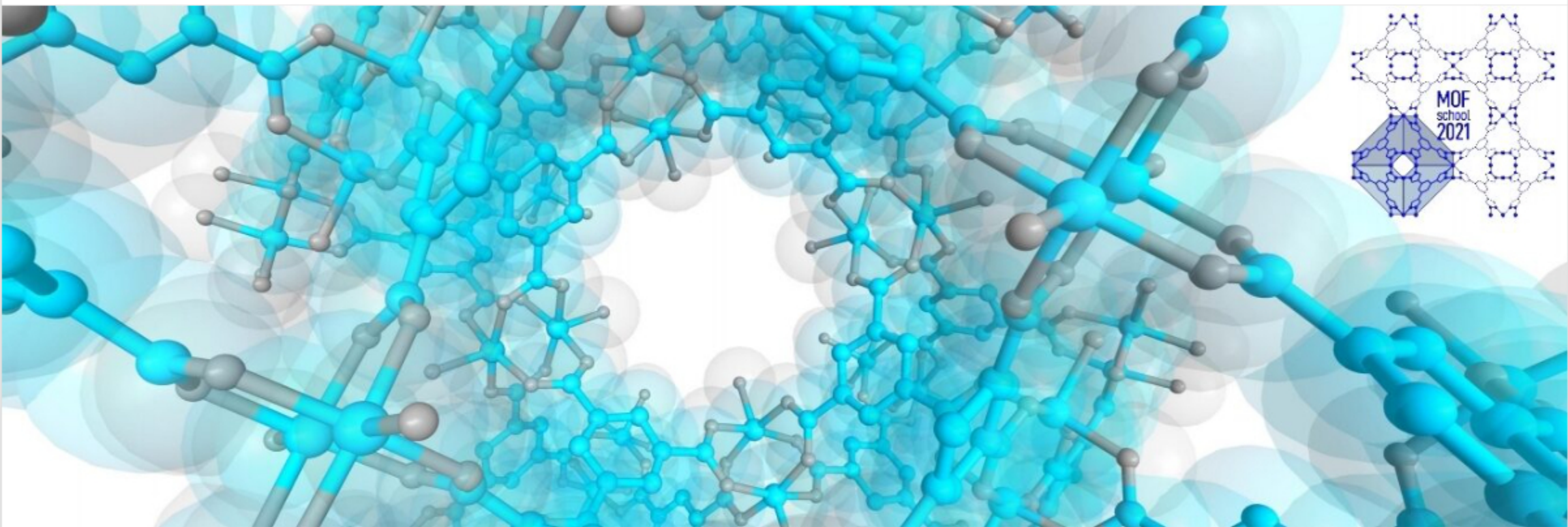
2nd International School on Porous Materials
Como, Villa del Grumello
June 21st - 25th 2021



2nd International School on Porous Materials: MOFschool2021

Lake Como School of Advanced Studies, 21-25 June 2021

- [Home](#)[Application](#)[Poster Session](#)[Daily program](#)[Lecturers](#)[Scientific and Organizing Committee](#)[Contacts](#)[Sponsors](#)
- [Registration](#)



Lecturers



Elisa Borfecchia
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Silvia Bordiga
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University of Turin, Turin, Italy



Jose Casaban
Chief Technology Officer
MOF Technologies



Valentina Colombo
Department of Chemistry
University of Milan, Milan, Italy



Mircea Dincă
Department of Chemistry
Massachusetts Institute of Technology, Cambridge, United States



Roland A. Fisher
Department of Chemistry
Technical University of Munich, Munich, Germany



Felipe Gándara
Materials Science Institute
CSIC, Madrid, Spain



Jorge Gascón
Materials Science Institute
King Abdullah University of Science and Technology, Saudi Arabia

.....



Stuart James
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Stefan Kaskel
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Technical University of Dresden, Dresden, Germany



Piero Macchi
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Polytechnical University of Milan, Milan, Italy



Carlos Martí-Gastaldo
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University of Valencia, Valencia, Spain.



Jorge A.R. Navarro
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University of Granada, Granada, Spain



Davide M. Proserpio
Department of Chemistry
University of Milan, Milan, Italy



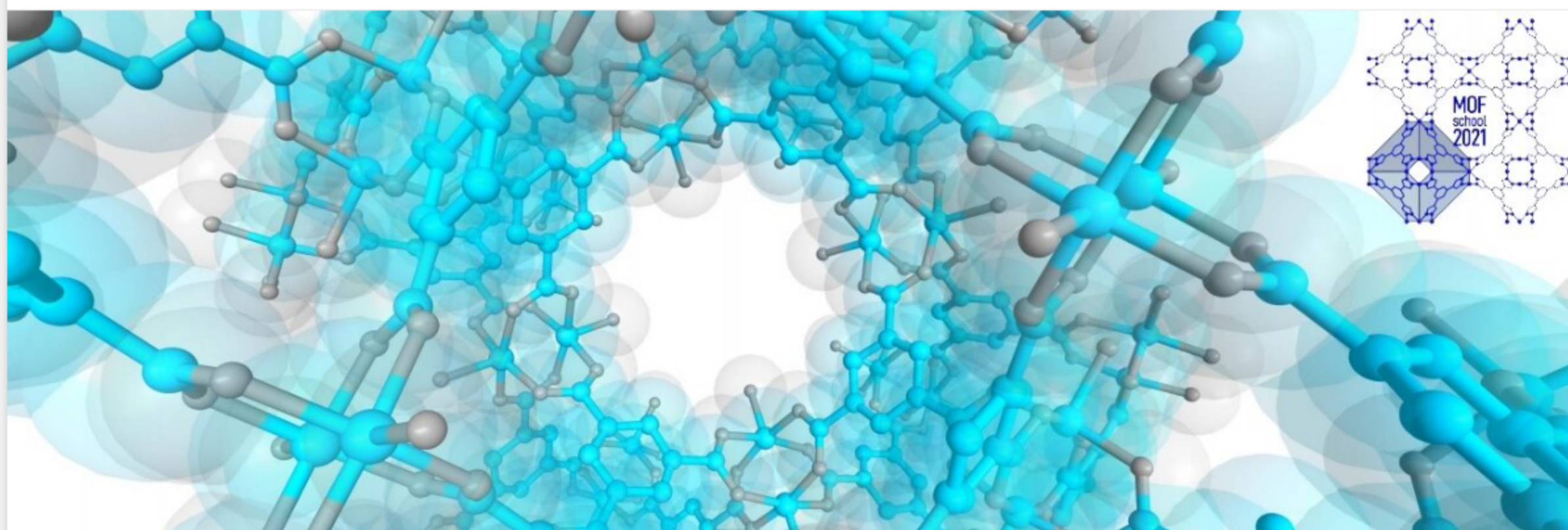
Omar M. Yaghi
Department of Chemistry
University of California, Berkeley, United States





2nd International School on Porous Materials: MOFschoo2021

Lake Como School of Advanced Studies, 21-25 June 2021

[Home](#)[Application](#)[Poster Session](#)[Daily program](#)[Lecturers](#)[Scientific and Organizing Committee](#)[Contacts](#)[Sponsors](#)[Registration](#)

Scientific and Organizing Committee



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

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



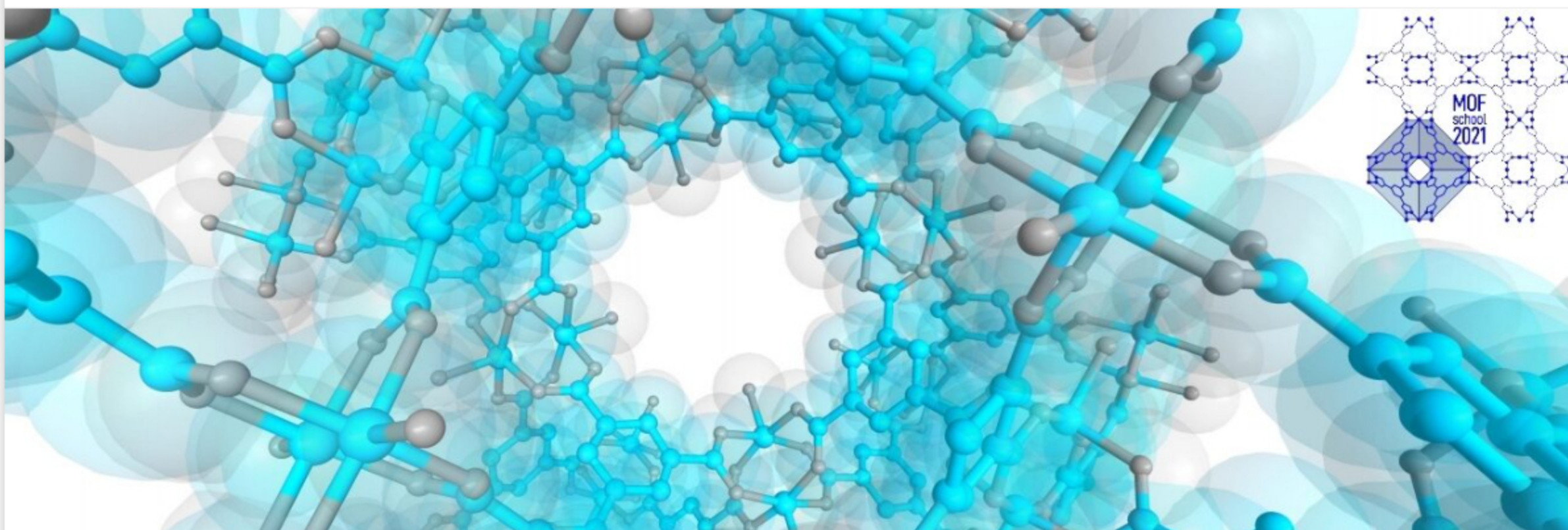


2nd International School on Porous Materials: MOFschool2021

Lake Como School of Advanced Studies, 21-25 June 2021

[Home](#) [Application](#) [Poster Session](#) [Daily program](#) [Lecturers](#) [Scientific and Organizing Committee](#) [Contacts](#) [Sponsors](#)

[Registration](#)



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.



2nd International School on Porous Materials: MOFschool2021

Lake Como School of Advanced Studies, 21-25 June 2021

[Home](#)

[Application](#)

[Poster Session](#)

[Daily program](#)

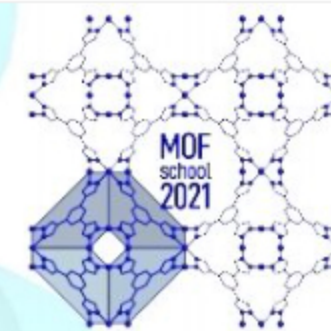
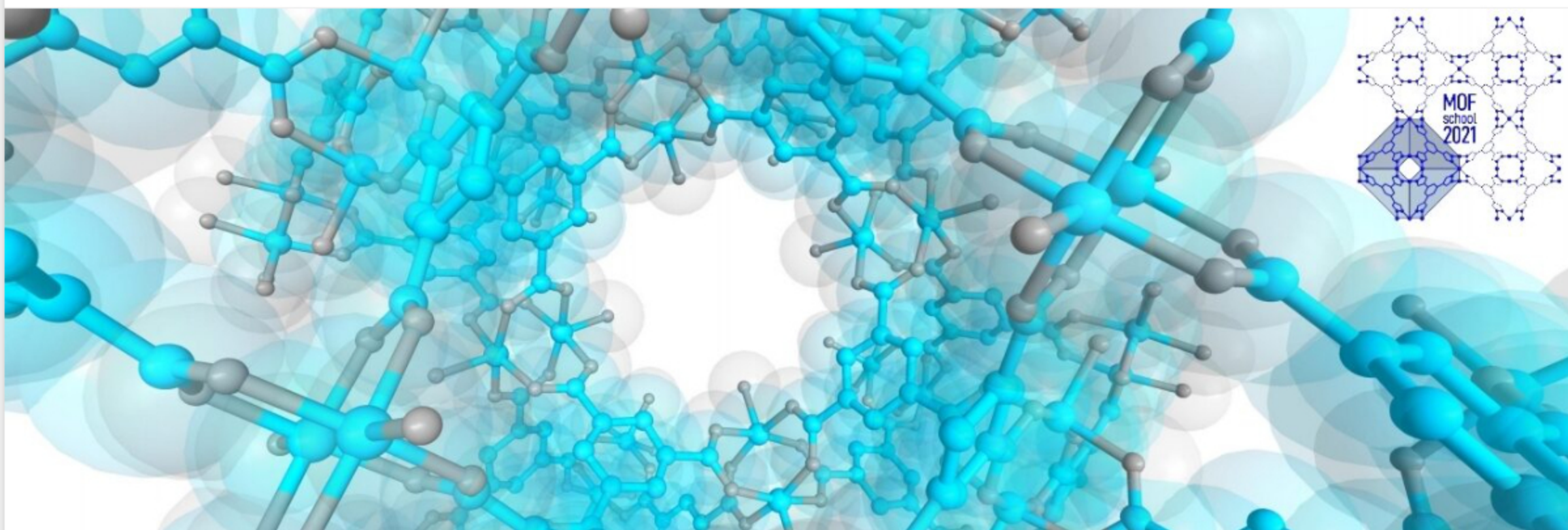
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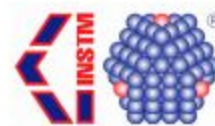
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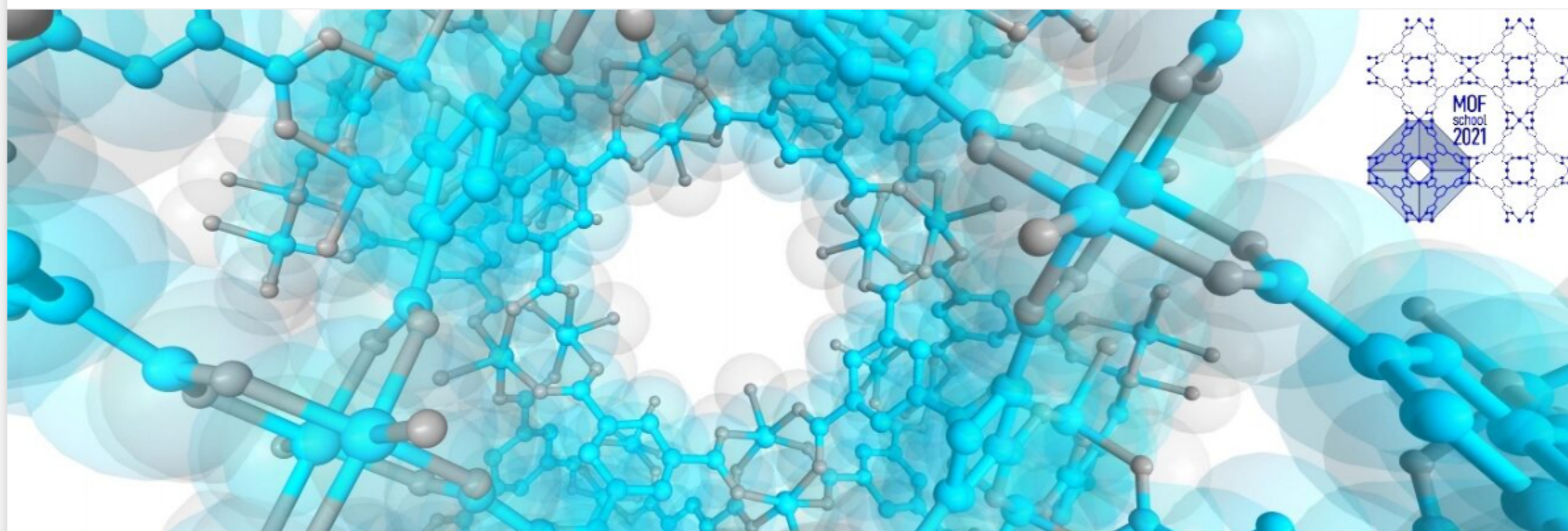
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2nd International School on Porous Materials: MOFschoo2021

Lake Como School of Advanced Studies, 21-25 June 2021

[Home](#)[Application](#)[Poster Session](#)[Daily program](#)[Lecturers](#)[Scientific and Organizing Committee](#)[Contacts](#)[Sponsors](#)[Registration](#)

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