



European Crystallographic Association

ECA

Report for school financial support

1. Date, location and title of meeting

Title of the meeting	Second International School on Porous Materials
Location	Originally intended in Como, Italy, but held as a remote event
Date	June, 21 st – 25 th 2021
Website address	https://mofs2021.lakecomoschool.org/

2. Please describe how the bursary was used

According to its guidelines, the financial support of 900 euros that ECA generously provided was employed to cover the registration fee of 9 students, namely:

Surname	Name	Institution	Town	Country
Bodylska	Weronika	Polish Academy of Sciences	Wrocław	Poland
Cartagenova	Daniele	Paul Scherrer Institute	Villigen	Switzerland
Dalal	Anu	Indian Institute of Technology Delhi	New Delhi	India
Delgado López	Pedro José	University of Granada	Granada	Spain
Leippe	Sophia	University of Leipzig	Leipzig	Sophia
Li	Xuemei	University of Queensland	St lucia	Australia
Liu	Xiewen	University of Cambridge	Cambridge	UK
López García	Clara	Instituto ce Ciencia de Materiales de Madrid	Madrid	Spain
Mylonas-Margaritis	Ioannis	National University of Ireland Galway	Galway	Ireland

Needless to say, ECA contribution was duly acknowledged in the School web site (<https://mofs2021.lakecomoschool.org/>) and via Twitter (#MOFSchool2021). Moreover, ECA logo was present in the slides employed for the opening and closing speeches, in the flyer, and in the booklet of abstracts distributed in electronic format to all the participants.

3. Report (min. 250 words, max. 500 words, will be published on the ECA web site)

The Second International School on Porous Materials (MOFsSchool2021) took place in the period June, 21st-25th 2021 as part of the events patronized by the Lake Como School on Advanced Studies (<https://lakecomoschool.org/>). The event, originally intended to be held, at least in blended form, at Villa del Grumello, Como, was eventually run in remote, due to the restrictions imposed by the Italian Government in the month of June base on the Covid-19 pandemic.

The School was attended by 130 participants - 108 students, 14 teachers and the 8 Organizing Committee members. The cultural and scientific exchange certainly benefited from the presence of a vast number of foreign attendees, coming from up to 16 different countries of the 5 continents.

Dedicated to an audience of young students neophytes to the chemistry of porous metal-organic and covalent organic materials, the School focused the attention on the synthesis and characterization of these compounds, as well as on a number of representative applications. To the aim, several front lectures and one hands-on session were organized. More in detail, the topics covered by the school involved:

- Reticular chemistry of metal-organic frameworks and covalent organic frameworks (Prof. Omar Yaghi).
- Advanced characterization methods: spectroscopies (Prof. Silvia Bordiga); X-ray absorption (Dr. Elisa Borfecchia); ambient-conditions single-crystal X-ray diffraction (Dr. Felipe Gándara); *in situ* powder and single-crystal X-ray diffraction (Prof. Valentina Colombo); high-pressure X-ray diffraction (Prof. Piero Macchi); NMR spectroscopy (Prof. Stefan Kaskel).
- Topological description and hands-on session with the software TOPOS (Prof. Davide Proserpio).
- Cutting-edge applications: water harvesting (Prof. Omar Yaghi); capture and degradation of chemical warfare agents (Prof. Jorge Navarro); heterogeneous catalysis (Prof. Jorge Gascón); single site catalysis (Prof. Mircea Dincă); electrical conductivity (Prof. Mircea Dincă); non-linear optics (Prof. Roland Fisher); SURMOF-derived electrocatalysis (Prof. Roland Fisher); charge transport, photoactivity and chemical reactivity (Prof. Carlos Martí-Gastaldo); MOFs mass production (Dr. José Casaban).
- Porous liquids (Prof. Stuart James).

The young participants were given the opportunity to present their research during 3 flash-presentation sessions (for a total of 9 contributions) and a Twitter poster contest. 4 prizes were awarded to 4 young participants for the best flash presentation and the best 3 posters (2 selected by the Prize Committee and 1 by the audience) thanks to the Università degli Studi di Milano and Eldico Scientific.

Overall, thanks also to the 7 grants directly provided by the School budget, 46 bursaries were assigned to cover the registration fees of the students.

Giulia Conti

Prof. Simona Galli
Università degli Studi dell'Insubria
Dipartimento di Scienza e Alta Tecnologia – DiSAT
Associate Professor of Inorganic Chemistry
Via Valleggio, 9 – 22100 Como (CO) – Italia

Also on behalf of the other School Directors Valentina Colombo and Jorge A.R. Navarro

