

## **COST Action CA18112 MechSustInd Training School 2023**

### **Call for trainees**

## **Scale up of Mechanochemical Reactions**

Date and location: March 27<sup>th</sup> to March 30<sup>th</sup>, 2023  
Local host: Max-Planck-Institut für Kohlenforschung  
Address: Mülheim an der Ruhr, Germany

### **About the school**

This course will enable participants to gain basic training in carrying out and to scale up (to kg-amounts) solid state reactions in general using different types of ball mills. The main aims of the school are:

1. To transfer mechanochemical experiments with ball mills from g- to kg-scale.
2. Learn on how to follow the reaction progress with sampling and different analytical methods
3. To get familiar with big ball mills for industrial applications

The presented knowledge should increase the use of mechanochemistry for processes on kg- and industrial scale. .

The school is organized in a hybrid format — the theoretical lessons will be also accessible online for anyone. The experimental sessions are available only for the physically present participants. Travel grants for trainees are available.

The school capacity for the experimental part is 10 trainees,

### **About MechSustInd**

COST action CA18112 Mechanochemistry for Sustainable Industry (MechSustInd) aims at community building of mechanochemists across Europe. Education of young researchers, training of specialised scientists, engineers and technologists, promoting excellence and cross-fertilization among different fields is one of the important objectives of the Action.

## Practical details

The training school starts on Monday, March 27<sup>th</sup> and finishes on Thursday, March 30<sup>th</sup> 2023.

## Application process

Researchers at different ranks are eligible to apply for the training school, including graduate and PhD students, postdoctoral researchers and independent researchers. However, priority will be given to Young Researchers and Innovators (aged under 40), as well as to trainees from inclusiveness target countries (see [COST ITC](#)), respecting the gender balance.

Applications for the admission to the training school should contain:

- A motivation letter, that provides a clear indication of experience relevant to the topic of the training school; provide a rationale of why you are interested in the training school and how you envisage the training school to contribute to your learning, career and research objectives. (maximum one page)
- A short CV (maximum one page)

Commitment for successful applicants for grant prepare after the training school:

- Follow-up report (maximum one page)
- Feedback for the public website of the action (one paragraph)

Apply by filling the google form available at [tinyurl.com/TSMuelheimApp](https://tinyurl.com/TSMuelheimApp) For more information contact Training School coordinator Martin Krupička ([Martin.Krupicka@vscht.cz](mailto:Martin.Krupicka@vscht.cz)). Please, include **CA18112 TS Application** in the subject field.

Deadline for applications is Sunday February 26th 2023.

## Announced lecturers

Matej Baláž

Tanja Bendele

Ladislav Čelko

Evelina Colacino

Deborah Crawford

Sabrina Spatari

Oliver Pikhhard



The Max-Planck-Institut für Kohlenforschung (MPI KOFO) founded in 1912 as the Kaiser Wilhelm Institut für Kohlenforschung pursues basic research in all fields of catalysis. The central theme of all Departments is basic research in the catalytic transformation of compounds and materials with the highest degree of chemo-, regio- and stereoselectivity under conditions that maximize efficient use of natural resources.

Scientists at the institute perform research in the fields of organic and organometallic chemistry, homogeneous and heterogeneous catalysis, as well as in theoretical chemistry. Five Departments, each one headed by one scientific director, form the scientific backbone of the institute. The research departments are supported by service groups that provide state of the art analytics, efficient IT and excellent hardware from specialized workshops.

Through specially designed materials, improved processes and new fundamental knowledge, the researchers aim to help ensure that natural resources are used as efficiently as possible and that only few unwanted by-products are produced. Research at MPI KOFO has always been highly regarded internationally. The institute has two Nobel Prize winners in its rows: Prof. Dr. Karl-Ziegler (1963 Nobel Prize for discoveries in the field of chemistry and the technology of high polymers) and Prof. Dr. Benjamin List (2021 for the development of asymmetric organocatalysis).

About 50 percent of the more than 350 employees of the institute are diploma and PhD students or Post-Docs. In addition, the institute educates about 30 apprentices in various disciplines. People from about 35 different countries work at the institute.

**Martin Krupička**  
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