

PRACTICAL DETAILS

KEY DATES

→ ABSTRACTS

Abstracts (in a 2-page template) should be submitted by **October 31st, 2017**. Full instructions for online submission are available on the website [www.prepa12.org].

→ ACCEPTED COMMUNICATIONS

The authors of abstracts selected by the Scientific Committee will be informed no later than **February 1st, 2018**.

→ SECOND CIRCULAR

The second circular will be issued in **February 2018** on the website of the symposium and will provide detailed information on the conference program, registration fee and accommodation.

The prospective participants wishing to receive the final circular with the program should request it through the website [http://www.prepa12.org].

BOOK OF ABSTRACTS AND PUBLICATION

A book containing all accepted abstracts will be remitted to the participants.

Oral presentations and a large selection of posters will be published in an international peer-reviewed journal, upon invitation. Only original contributions will be considered and submitted to a higher standards reviewing process.

ACCOMMODATION

Accommodation is available on the symposium site and in nearby hotels; a few rooms will be available in the lodging facilities of the university.

ORGANIZING COMMITTEE

Prof D. DEBECKER, Université catholique de Louvain

Prof M. DEVILLERS, Université catholique de Louvain

Prof E. GAIGNEAUX, Université catholique de Louvain

Prof S. HERMANS, Université catholique de Louvain

Prof C. KIRSCHHOCK, KU Leuven

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CONTACT DETAILS

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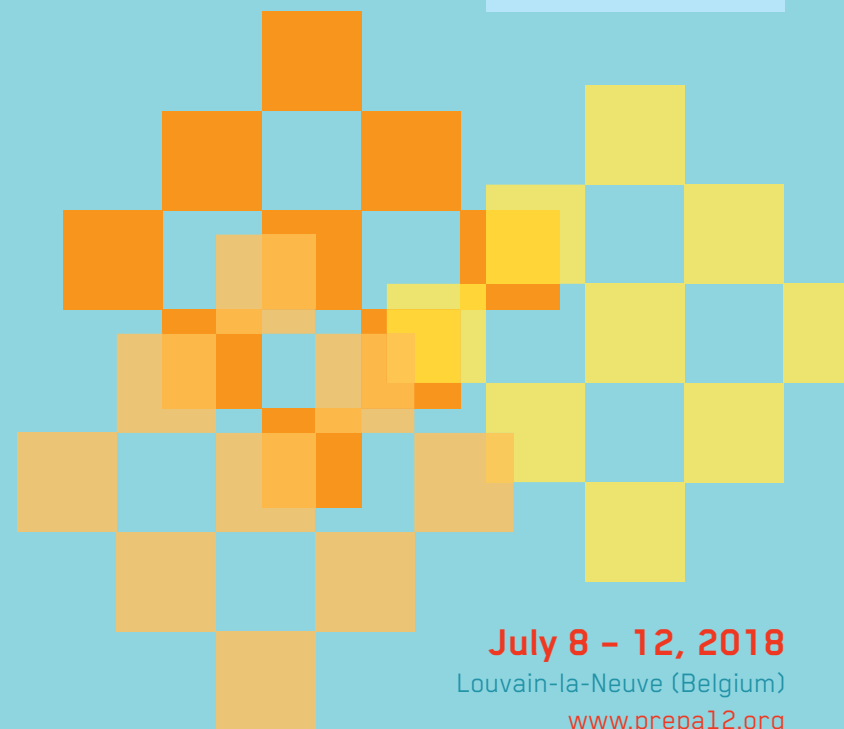
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12TH INTERNATIONAL SYMPOSIUM

SCIENTIFIC BASES FOR THE PREPARATION OF HETEROGENEOUS CATALYSTS

PREPA12

1ST CIRCULAR AND
CALL FOR PAPERS



July 8 – 12, 2018

Louvain-la-Neuve (Belgium)

www.prepa12.org

UCL
Université
catholique
de Louvain

KU LEUVEN

GENERAL SCOPE

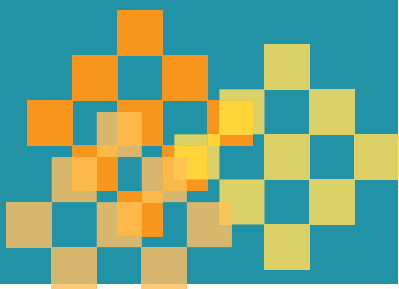
It is a tradition that every four years, the Université catholique de Louvain and the KU Leuven jointly organize a symposium devoted to the scientific bases for the preparation of heterogeneous catalysts. This meeting brings together researchers from academia and industry and offers a forum for discussions on the chemistry involved in the preparation of industrial heterogeneous catalysts.

We cordially invite all scientists active in the field of heterogeneous catalysis to participate in the 12th International Symposium on Scientific Bases for the Preparation of Heterogeneous Catalysts.

The scientific program will consist of invited lectures, oral and poster presentations.

Contributions focusing on all aspects of catalyst preparation are solicited. Reports on physico-chemical characteristics of catalysts and catalytic performances should be limited to correlations with the preparation parameters.

Papers will be selected by a scientific committee consisting of representatives from catalysis industry (manufacturers and users), based on the scientific value of the abstract, the novelty and the compliance of the subject to the symposium topics.



MAIN TOPICS

Innovative approaches in catalyst preparation for specific performance

- Air and water depollution processes
- Biomass conversion and biorefinery processes
- Petroleum refinery, petrochemistry and natural gas conversion
- Green chemicals and fine chemicals
- Electrocatalytic and photocatalytic processes
- Artificial photosynthesis

Advanced preparations of catalysts and supports

- MOFs, COFs, PMOs, zeolites and ordered mesoporous materials
- Hierarchical materials
- Clays and layered catalysts
- Heterogenized homogeneous catalysts
- Nanotubes, nanofibers and nanoparticles
- Immobilised enzymes
- Hybrid and composite catalysts
- Solid chiral catalysts
- Aerogels, xerogels and foams
- Core shell and egg shell structures
- Thin film and membrane catalysts

Key concepts and tools in catalyst preparation

- Upscaling and downscaling
- Shaping and structuring
- Rejuvenation of spent catalysts
- Eco-friendly catalyst preparation
- Biomimicking and biomorphism
- Surfactant and template assisted preparations
- Mechanochemical preparations
- Flame and combustion synthesis
- Preparations using ultrasound and electromagnetic radiation
- Plasma assisted preparations
- Synthesis in supercritical conditions
- Photo- and electrodeposition
- Atomic layer deposition
- High-throughput and robotic approaches
- In-situ spectroscopies, imaging
- Numerical and theoretical approaches in catalyst preparation

The main topics given are not exclusive, but aim at inspiring contributors.