

GENERAL INFORMATION

This Summer School is open to PhD students, post-docs, researchers and engineers, from both academia and industry interested in the catalysis field.

REGISTRATION

Online applications:

<https://schoolcat2019.sciencesconf.org/>

Deadline registration : April 30th, 2019.

Please note that the number of participants is limited *and the selection will be on a first-come-first-served basis*.

FEES

Seniors from industry: 650 €

Seniors from academia: 450 €

PhD, post-docs, master students: 250 €

The registration fees include Summer School accommodation, electronic book of abstracts, list of participants, food (breakfast, lunch and diner) and beverages during the Summer School.

CANCELLATION AND REFUNDS

Cancellations are only accepted by e-mail and refunds before May 31st, 2019.

GENERAL INFORMATION

VENUE

Ecole des Mines d'Albi-Carmaux

Campus Jarlard

81013 Albi, France

<https://www.imt-mines-albi.fr/plan-du-campus>

ACCOMMODATION

The conference will benefit from the on-site residence for students of the Ecole des Mines d'Albi-Carmaux. Apartments (20 m²) are equipped with the standard facilities.

SCIENTIFIC COMMITTEE

Montserrat Gómez (Toulouse), David Guieysse (Toulouse), François Jérôme (Poitiers), Jean-François Lahitte (Toulouse), Cuong Pham-Huu (Strasbourg), Doan Pham Minh (Albi), Catherine Pinel (Lyon), Eric Schaer (Nancy), Philippe Serp (Toulouse), Jean-Baptiste Sortais (Toulouse), Katerina Soulantika (Toulouse), Marc Taillefer (Montpellier)

ORGANISERS

Group of Catalysis in Toulouse (C@T)

<http://cat.ups-tlse.fr/>

CONTACT

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Ecole thématique CNRS

Catalysis: from understanding to applications



June 18-21, 2019

Albi, France

<https://schoolcat2019.sciencesconf.org/>

Heterogeneous, homogeneous and enzymatic catalysis

Mechanism and understanding
Part 1 - Kinetics

Mechanism and understanding
Part 2 - Operando techniques

Mechanism and understanding
Part 3 - Modeling

Application
Small molecule activation

And also flash presentation, posters, panel discussion, visite, round table



Catalysis in Toulouse



ICT Institut de Chimie de Toulouse

LCC



PROGRAMME

Tuesday, 18 June 2019

11:00 – 12:00 Reception

12:00 – 14:00 Lunch

14:00 – 14:15 Welcome – General information

INTRODUCTION TO CATALYSIS

14:15 – 15:30 **“From molecular to solid catalysis: a contextualization”**
P. Serp, R. Fauré, Univ. Toulouse

15:30 – 16:30 Coffee break and Poster session

16:30 – 18:00 Flash presentations

18:30 – 20:00 Diner

Wednesday, 19 June 2019

MECHANISM UNDERSTANDING - Part 1

8:30 – 9:45 **“Kinetic studies by stop-flow techniques”**
M. Martinez, Univ. Barcelona

9:45 – 10:15 Coffee break

10:15 – 11:30 **“Kinetics in heterogeneous catalysis. Design of reactors”**
C. Julcour, LGC, Toulouse11:30 – 13:00 **“Enzymatic kinetics in homogeneous and heterogeneous medium”**
M. Remaud-Siméon, Univ. Toulouse

13:00 – 14:30 Lunch

PROGRAMME

Wednesday, 19 June 2019

MECHANISM UNDERSTANDING - Part 2

14:30 – 15:30 Flash presentations

15:30 – 16:45 **“Operando spectroscopy & reaction progress kinetic analysis - key concepts for understanding catalysis”**
U. Hintermair, Univ. Bath, UK

16:45 – 17:15 Coffee break

17:15 – 18:30 **“X-ray absorption spectroscopy: a powerful technique for time-resolved investigations of catalysts in operando”**
A. Corrias, Univ. Kent, UK

18:30 – 20:00 Diner

Thursday, 20 June 2019

MECHANISM UNDERSTANDING - Part 3

8:30 – 9:45 **“DFT studies of reaction mechanisms in transition metal catalyzed transformations”**
E. Clot, Univ. Montpellier

9:45 – 10:15 Coffee break

10:15 – 11:30 **“Challenges in the simulations of heterogeneous catalysts”**
N. López, ICIQ, Spain11:30 – 13:00 **“Computational chemistry : a useful tool for enzymatic processes”**
F. Cossio, Univ. Basque Country, Spain
J.-D. Maréchal, Univ. Autònoma de Barcelona

13:00 – 14:30 Lunch

PROGRAMME

Thursday, 20 June 2019

DISCOVERING

14:30 – 16:30 Round Table "Catalysis for sustainability"

16:30 – 18:00 Visit of the RAPSODEE research center

20:00 Friendly diner

Friday, 21 June 2019

APPLICATIONS: SMALL MOLECULE ACTIVATION

8:30 – 9:00 **“Introduction on small molecule activation”**
S. Bontemps, CNRS, Toulouse9:00 – 10:15 **“Photostimulated CO₂ valorization”**
J. Bonin, Univ. Paris Diderot-Paris 7

10:15 – 10:45 Coffee break

10:45 – 12:00 **“Heterogeneous transformation of CO₂”**
D. Pham Minh, IMT Mines Albi

12:00 – 13:30 Lunch

13:30 – 14:45 **“Homogeneous transformation of CO₂”**
S. Bontemps, CNRS, Toulouse

14:45 – 15:15 Concluding remarks – Feedback from participants