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://schoolcat2024.sciencesconf.org

Registration open: March 01st, 2024.

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

FEES

Period	01 March to 30 April	01 May to 21 June
PhD, post-docs, master students	420€	500€
Seniors from academia	450 €	550€
Industrials	650€	700€

The registration fees include Summer School accommodation, electronic book of abstracts, list of participants, food (breakfasts, lunches, diners, gala diner), and beverages during the Summer School.

CANCELLATION AND REFUNDS

Cancellations are only accepted by e-mail and refunds before May 31st, 2024.



GENERAL INFORMATION

VENUE

Ecole des Mines d'Albi-Carmaux Campus Jarlard 81013 Albi, France (https://www.imt-mines-albi.fr/en/campus-0)

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.

ORGANISERS

Group of Catalysis in Toulouse (C@T) R. Fauré, M. Gómez, J-F. Lahitte, E. Manoury, B. Martin Vaca, D. Pham Minh, P. Serp, K. Soulantika

CONTACT

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June 17-21, 2024 Albi. France

https://schoolcat2024.sciencesconf.org

Heterogeneous, homogeneous and enzymatic catalysis

Mechanism and understanding Part 1 - Kinetics

Mechanism and understanding: Part 2 – Operando techniques

Catalysis and chemical processes

Application: Electrocatalysis: from fundamentals to applications

And also flash presentations, posters. panel discussion, etc...



























3 RD SUMMER SCHOOL IN CATALYSIS: 2024 PROGRAMME		3 RD SUMMER SCHOOL IN CATALYSIS: 2024 PROGRAMME		3 RD SUMMER SCHOOL IN CATALYSIS: 2024 PROGRAMME	
IV	londay, 17 June 2024	W	ednesday, 19 June 2024	Thursday, 20 June 2024	
11:00 – 12:00	Reception		UV-Vis spectroscopy tools of the trade for kinetic studies Manuel Martinez, Univ. Barcelona, Spain Coffee break	PROCESSES	
12:00 – 14:00	Lunch	8:30 – 10:00		14:00 – 15:30	Catalytic membrane reactor, a promising tool for flow catalytic chemistry JF Lahitte, LGC, Toulouse, FR
14:00 – 14:15	Welcome – General information	10:00 – 10:30			
INTRODUCTION TO CATALYSIS			Mechanism and reactivity using kinetic	15:30 – 16:00	Coffee break
14:15 – 15:45	Introduction to Machine Learning for Chemists: Visualization, Data Processing, Analysis, and Modeling R. Poteau, LPCNO, Toulouse	10:30 – 12:00	methodology for heterogeneous catalytic reactions P. Fongarland, IRCELYON, Lyon, FR	16:00 – 17:30	Batch to continuous transposition in Catalysis: Good practices & pitfalls Régis Philippe, CP2M, Lyon, FR
15:45 – 16:15	Coffee break	12:00 – 14:00	Lunch	17:30 – 19:00	Design & modeling of multiphase catalytic reactors
16:15 – 17:15	Flash presentations	MECHAN	IISM UNDERSTANDING - Part 2	17.30 - 19.00	C. Julcour, LGC, Toulouse, FR
17:15 – 19:00	Poster session	14.00 15.20	Enzyme kinetics: Theory and practice Emeline Fabre, TBI Toulouse, France	20:00 – 23:00	Friendly diner
19:30 – 21:00	Diner	- 14:00 – 15:30 			Friday, 21 June 2024
Ti	uesday, 18 June 2024	15:30 – 16:00	Coffee break	ELECTROCATALYSIS: FROM	
MECHANISM UNDERSTANDING - Part 1		16:00 17:20	Non-quantum based modeling: What insights to expect on catalysis and	FUNDAMENTALS TO APPLICATIONS	
8:30 – 10:00	IR and Raman spectroscopies for characterizations in heterogeneous catalysis: in situ and operando approaches	- 16:00 – 17:30 ————	recognition? J-D. Maréchal, Univ. Autonoma Barcelona Practical work - Non-quantum based	8:30 – 10:00	Electrocatalysis using (nanostructured) metals: From fundamentals to application in electrolyzers and fuel cells
	G. Clet, LCS, Caen, FR	_ 17:30 – 19:00	modeling: What insights to expect on catalysis and recognition? J-D Maréchal Univ Autonoma Barcelona		Y. Holade, ENSCM, Montpellier, FR
10:00 – 10:30	Coffee break			10:00 – 10:30	Coffee break
NMR as a mechanistic probe: 10:30 13:00 uniqueness and practicalities		19:30 – 21:00	Diner	10.00 - 10.30	Collee bleak
10:30 – 12:00	Andres Garcia Dominguez, Univ Edinburgh, UK	Thursday, 20 June 2024		10:30 – 12:00	Molecular Electrochemistry: a tool for mechanism analysis C. Costentin, Univ. Grenoble, FR
12:00 – 14:00	Lunch	MECHANISM UNDERSTANDING - Part 2			
14:00 – 15:30	Operando X-ray Absorption Spectroscopy : a local order technique for shedding light on catalyst behaviour	8:30 – 10:00	Modeling catalytic reaction mechanisms with porous materials Manuel A. Ortuño	12:00 – 13:30	Lunch
45.00 40.00	Valerie Briois, Synchrotron Soleil, FR	10.00 10.20	Univ de Santiago de Compostela, Spain	13:30 – 15:00	Microbial and Enzymatic electrocatalysis : fundamentals and applications JM. Fontmorin, LGC, Toulouse, FR
15:30 – 16:00	Coffee break	10:00 – 10:30	Coffee break Organocatalysis: some concepts and	10.00	
16:00 – 17:00 17:00 – 18:30	Poster session	- 10:30 – 12:00 -	applications in organic synthesis JF. Brière Univ of Rouen Normandie, FR	15:00 – 16:00	Feedback from participants - Concluding remarks