



18th ICC
JULY 14 - 19, 2024

International
Congress on Catalysis



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PROGRAM BOOK

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WELCOME TO ICC 2024

On behalf of the Organizing Committee, we cordially welcome you to Lyon to participate in the 18th International Congress on Catalysis (ICC-18) from the 14th-19th of July, 2024.

Under the auspices of the International Association of Catalysis Societies (IACS) the ICC is acknowledged as the largest and most exciting in-person conference in catalysis science and technology. The ICC-17 which was due to take place in 2020 in San Diego had to be cancelled at the last minute due to the COVID-19 outbreak. We would like to acknowledge our colleagues for their commitment and efforts in organizing the event. Here today, with more than 2300 participants from over 67 countries, ICC-18 gathers international academic and industry leaders, young researchers and students, publishing groups, specialized journalists and start-ups. Take this unique opportunity to interact and engage with researchers from both academia and industry. The Lyon Congress Centre provides a wonderful venue for the congress with areas to relax and to build relationships during enjoyable lunch breaks, poster sessions, within the exhibitor hall and on Wednesday afternoon through organized excursions and other social events. We encourage you to visit Lyon, in particular the historical center, a UNESCO World Heritage Site, or to have a walk along the Rhône and the Saône rivers, and why not taste a glass of Beaujolais, Burgundy or Côtes-du-Rhône at the Terreaux city hall square.

With the motto "ROOTS AND WINGS FOR A BETTER WORLD", we wish to promote disruptive catalysis, built on its solid grounds. The Scientific Program addresses worldwide societal challenges including environmental and energy issues, mobility, and circular economy solutions. Along with the state-of-the-art of catalysis in all its diversity, the program also includes for the first time "short symposia" on transdisciplinary fields and emerging topics selected from your proposals to the "call for short symposia". Altogether, the program features more than 500 oral presentations, 8 plenary lectures and 25 keynotes, covering a wide range of topics within 7 parallel sessions.

Major catalysis today's challenges and innovative solutions will be addressed in 5 Panel Sessions. The Career Fair will bring together students, young professionals, industry experts, and research groups to network and discuss their interests and career opportunities.

At the initiative of the Young Scientists committee and Ethics committee, three "out of the box" sessions on Professional development will take place during lunch breaks. You will have the opportunity to discuss with a historian, a sociologist, a chemist or a philosopher around interdisciplinary conversations intertwining the practice of catalysis with the complex fabric of the 21st century.

We would like to express our sincere gratitude to all members of the scientific community who have participated in the organization of the conference, in particular the Topic Chairs, members and all our colleagues who have been working on the abstract review.



We would like to thank the Young scientists committee for their work to promote the Young Talent Researchers. We would like to extend our gratitude to the sponsors for their generous financial support.

We also thank the Catalysis Division (DivCat) and the French Chemical Society (SCF) for hosting the ICC-18 in France. We express our gratitude to the IACS for having accompanied the organization of ICC-Lyon especially during the Covid19 pandemic and also providing grants for more than 50 Young awardees.

We thank all the congress attendees for sharing their latest innovations on catalysis in all its diversity. The organizers are committed to making this conference productive and enjoyable for everyone. We ask all participants to be kind and respectful to others. We sincerely wish all of you a delightful stay in Lyon and stimulating discussions.

David Farrusseng & Hélène Olivier-Bourbigou,
Chairs, on behalf of the Steering Committee

COMMITTEES

STEERING COMMITTEE •

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Hélène Olivier-Bourbigou • IFP Energies nouvelles, France
Co-chair
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Pascal Granger • University of Lille
François Jérôme • CNRS, University of Poitiers
Franck Launay • Sorbonne University Paris
David Loffreda • Ecole Normale Supérieure de Lyon
Benoît Louis • CNRS, University of Strasbourg
Eric Marceau • University of Lille, President of the Catalysis division of the French Chemical Society
Philippe Marion • Syensqo
Eric Monflier • University of Artois
Armelle Ouali • CNRS, University of Montpellier
Olivier Péruch • ADISSEO
Hugo Petitjean • University of Montpellier
Laurent Piccolo • CNRS, University of Lyon
Anne-Cécile Roger • University of Strasbourg
Arnaud Travert • University of Caen
Bart Vandegehuchte • TotalEnergies
Karine de Oliveira Vigier • University of Poitiers

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Katharina Beine • Max-Planck-Institut für Chemische Energiekonversion, Germany
Tereza Bilkova • Technical University of Ostrava, Czech Republic
Clément Camp • CNRS, France, Group Coordinator

Anastasiia Efremova • Université de Szeged, Hungary
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Sebastian Gamez • Université Catholique de Louvain, Belgium
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Michele Sarazen • Princeton University, USA
Michael Shoham Patrascu • Technion Israel Institute of Technology, Israel
Mzamo Shoji • University of KwaZulu-Natal, Durban, South Africa
Tommaso Tabanelli • Università di Bologna, Italy
Ewoud Vaneekhaute • KU Leuven, Belgium
Lea Winter • Yale University, USA
Mizuho Yabushita • Tohoku University, Japan

INTERNATIONAL ADVISORY COMMITTEE •

All Council Members of the International Association of Catalysis Societies (IACS)

PROGRAM OVERVIEW

	SUN. 14 JULY	MON. 15 JULY	TUE. 16 JULY	WED. 17 JULY	THU. 18 JULY	FRI. 19 JULY
08:30		8:30 > 9:15 Plenary AMPHITHEATRE	8:30 > 9:15 Plenary AMPHITHEATRE	8:30 > 9:15 Plenary AMPHITHEATRE	8:30 > 9:15 Plenary AMPHITHEATRE	8:30 > 9:15 Plenary AMPHITHEATRE
09:25		9:25 > 10:25 Keynote & Parallel	9:25 > 10:25 Keynote & Parallel	9:25 > 10:25 Keynote & Parallel	9:25 > 10:25 Keynote & Parallel	9:25 > 10:25 Keynote & Parallel
10:25		10:25 > 11:00 COFFEE BREAK	10:25 > 11:00 COFFEE BREAK	10:25 > 11:00 COFFEE BREAK	10:25 > 11:00 COFFEE BREAK	10:25 > 11:00 COFFEE BREAK
11:00		11:00 > 12:20 Keynote & Parallel	11:00 > 12:20 Keynote & Parallel	11:00 > 12:20 Keynote & Parallel	11:00 > 12:20 Keynote & Parallel	11:00 > 12:20 Keynote & Parallel
12:20		12:20 > 14:00 LUNCH EVENT SALON PASTEUR	12:20 > 14:00 LUNCH EVENT SALON PASTEUR	12:20 > 14:00 LUNCH EVENT SALON PASTEUR	12:20 > 14:00 LUNCH EVENT SALON PASTEUR	12:20 > 14:00 LUNCH EVENT SALON PASTEUR
14:00	14:00 > 20:00 Registration	14:00 > 15:40 Keynote & Parallel	14:00 > 15:40 Keynote & Parallel	Excursions <i>Free time</i>	14:00 > 15:40 Keynote & Parallel	14:00 > 16:00 Keynote & Parallel
15:40	15:30 > 16:30 Opening Ceremony	15:40 > 16:10 COFFEE BREAK	15:40 > 16:10 COFFEE BREAK		15:40 > 16:10 COFFEE BREAK	
16:10	16:30 > 18:30 IACS Award Lectures 2024	16:10 > 17:30 Keynote & Parallel	16:10 > 17:30 Keynote & Parallel		16:10 > 17:30 Panel Sessions	16:10 > 17:00 IACS Award Lecture 2020
17:30		17:30 > 19:30 Poster I	17:30 > 19:30 Poster II		17:30 > 19:30 Poster III	17:00 > 17:30 Closing Ceremony
19:30	18:30 > 20:00 Welcome Reception		19:30 > 21:00 Career Fair		20:00 > 01:00 Congress Dinner & Party	17:30 > 18:00 Closing Drink

SOCIAL EVENTS

Welcome Reception

Sunday 14 July • 18:30 > 20:00 • LYON CONVENTION CENTRE



The Organising Committee is excited to host the ICC 2024 delegates for a Welcome reception that will be held in the Convention Centre. On this French National Day, don't miss the celebrations organised in the center of Lyon, especially the ball staged on the left bank of the Saône and the traditional fireworks on the hillside of Fourvière.

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Young Scientists Party

Thursday 18 July • 20:00 > 01:00 • LE SUCRE | 50 Quai Rambaud, 69002 Lyon

This must-attend party will be held in Le Sucre, a club and cultural venue located on the rooftop of a former sugar warehouse on the banks of the river Saône. Dinner cocktail reception, outside terrace bar, DJ set until late in the night: prepare for a hot summer party!

Only registered participants can attend.



Conference Gala Dinner

Thursday 18 July • 20:00 > 01:00 • LA SUCRIÈRE | 50 Quai Rambaud, 69002 Lyon

It is one of the both historic and emblematic buildings of the newly revamped Lyon Confluence district, currently the largest contemporary architectural project in Europe, which has called on leading international architects to oversee the design of the different buildings that compose it. This former sugar warehouse, located in the heart of a festive and dynamic neighbourhood, is the ideal venue for the 18th-ICC cocktail and gala dinner, where you will enjoy French gastronomy and entertainment.

Only registered participants can attend.



PROFESSIONAL DEVELOPMENT EVENTS

Career fair and networking evening

Tuesday 16 July • 19:30 > 21:00

SALON PASTEUR

Organized by the Young Scientists committee.

This event is a great opportunity to bring together students, young professionals, industry experts, and research groups to network and discuss their interests and job/career opportunities. Whether you are currently looking for a job or willing to discuss future career opportunities, make sure to join us on Tuesday 16th July, for professional presentations, cocktail and networking, to meet with your colleagues and the catalysis industry leaders!

Only registered participants can attend.

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“Tending to our wings”

LUNCH EVENTS

Tuesday 16 July and
Thursday 18 July • 12:30 > 13:30

SALON PASTEUR

Organized by the Ethics committee.

Addressed to all researchers at any stage of their career, to offer an interdisciplinary moment -intertwining catalysis and history, philosophy, sociology & Earth system- sciences for continuous grounding of our research. Participate to an interdisciplinary dialogue: “Consider the power of Catalysis, the science of Acceleration over a century, through social sciences lenses”.

Only registered participants can attend. Lunch-boxes distribution at room entrance for those who pre-ordered.

“Tending to our roots”

LUNCH EVENTS

Monday 15 July and
Wednesday 17 July • 12:30 > 13:30

SALON PASTEUR

Organized by the Young Scientists committee.

Addressed primarily but not exclusively to early career researchers to help take off, have lunch at one of the five themed-tables to exchange with our experts on Ethics of scientific integrity and reproducibility, Diversity, equity and inclusion, Time management, Mentoring or Science communication.

Only registered participants can attend. Lunch-boxes distribution at room entrance for those who pre-ordered.

“Tending to a better future”

LUNCH EVENT

Friday 19 July • 12:30 > 13:30

SALON PASTEUR

Organized by the Young Scientists & Ethics committees.

Addressed to all, in an intergenerational event co-organized by the Young Scientist committee and Ethics committee, to discuss how scenarios and other shared narratives can help shape our futures, there included our future research in catalysis. Participate to an interdisciplinary dialogue: “Consider the power of Catalysis, the science of Acceleration over a century, through social sciences lenses”.

Only registered participants can attend. Lunch-boxes distribution at room entrance for those who pre-ordered.

PLENARY SPEAKERS



Keiichi Tomishige

"Heterogeneous catalysis for hydrodeoxygenation of biomass-based platform chemicals"

Monday 15 July • 8:30 > 9:15
AMPHITHEATRE



Umit Ozkan

"High-temperature Electrocatalysis: Challenges and Opportunities"

Tuesday 16 July • 8:30 > 9:15
AMPHITHEATRE



Jeroen van Bokhoven

"Advanced Spectroscopic tools applied to heterogeneous catalysis"

Wednesday 17 July • 8:30 > 9:15
AMPHITHEATRE



Thomas Maschmeyer

"Driving sustainable technology through catalysis"

Thursday 18 July • 8:30 > 9:15
AMPHITHEATRE



Ulrike Diebold

"Oxide Surface Science: Chemistry at the Atomic Scale"

Friday 19 July • 8:30 > 9:15
AMPHITHEATRE



AWAR- DEES

2024 IACS Heinz Heinemann Award Lecture

Kazunari Domen
Sunday 14 July • 16:30 > 17:20
AMPHITHEATRE

2024 IACS International Catalysis Award Lecture

Yuriy Roman-Leshkov
Sunday 14 July • 17:20 > 18:10
AMPHITHEATRE

2020 IACS Heinz Heinemann Award Lecture

Avelino Corma
Friday 19 July • 16:10 > 17:00
AMPHITHEATRE

SCIENTIFIC TOPICS

T1

Molecular catalysis: metal-based catalysts

Chair: **Armelle Ouali**,
ICGM University of Montpellier,
France

- **Montserrat Gomez**,
LHFA-Toulouse, France
- **Alexis Bordet**,
Max Planck Institute, Mülheim,
Germany
- **Beatriz Royo**, Universidade
Nova de Lisboa Portugal
- **Eduardo Peris**,
Universitat Jaume I, Spain

T2

Molecular catalysis: main group and organocatalysis

Chair: **Montserrat Gomez**,
LHFA - Toulouse, France

- **Armelle Ouali**, ICGM
University of Montpellier,
France
- **Guillaume Berionni**,
University of Namur, Belgium
- **Paul Ballester**,
ICIQ - Tarragona, Spain
- **Laura Rodriguez Raurell**,
Universitat de Barcelona, Spain

T3

Enzymatic, hybrid and bioinspired catalysis

Chair: **Damien Debecker**,
University Louvain la Neuve,
Belgium

- **Francesca Paradisi**,
University of Bern, Switzerland
- **Lorraine Christ**, IRCELYON,
Université Claude Bernard
Lyon1, France
- **Selin Kara**, Aarhus
University, Denmark

T4

Preparation of heterogeneous catalysts

Chairs: **Xavier Carrier**,
Sorbonne University Paris,
France | **Florence Epron**,
IC2MP Poitiers, France |
Malika Boualleg, IFP Energies
nouvelles, France

- **Moniek Tromp**, University
Groenigen, The Netherlands
- **John R. Regalbuto**, University
South Carolina, USA
- **Yolanda Cesteros Fernández**,
Universitat Rovira i Virgili
Tarragona, Spain
- **Eric Gaigneaux**, UCLouvain,
Belgium
- **Katerina Soulantika**, LPCNO
INSA Toulouse, France
- **Gerhardt Mestl**, Clariant,
Germany
- **Jessy E.S. Van der Hoeven**,
University Utrecht,
The Netherlands

T5

Computational approaches at the atomic scale of catalysis - General

Chairs: **Céline Chizallet**,
IFP Energies nouvelles,
France | **David Loffreda**,
ENS Lyon, France

- **Hugo Petitjean**,
ICGM-CNRS-University
Montpellier, France
- **Céline Dupont**,
ICB, CNRS-Université de
Bourgogne, France
- **Federico Calle Valejo**,
UPV-EHU, Spain
- **Mercedes Boronat**,
ITQ Valencia, Spain

T6

Computational approaches at the atomic scale of catalysis - Unifying Concepts to Tackle Dynamics in Computational Catalysis

Chairs: **Aleix Comas Vives**,
Tu Wien, Austria | **Ainara Nova**,
University Oslo, Norway

- **Maren Podewitz**, TU Wien,
Austria
- **Núria López**, ICIQ, Spain

T7

Computational approaches at the atomic scale of catalysis - Quantum simulation combined with machine learning for catalysis

Chairs: **Pascal Raybaud**, IFP
Energies nouvelles, France |
Veronique Van Speybroeck,
Ghent University, Belgium
| **William Schneider**, Notre
Dame University, USA

T8

Characterization of catalysts and of catalytic reactions - General

Chair: **Guylène Costentin**,
Sorbonne University,
Paris France

- **Stéphane Loridant**, IRCELYON -
University Lyon France
- **Arnaud Travert**,
LCS - University Caen, France
- **Sylvain Cristol**, UCCS -
University Lille, France
- **Anne Lesage**,
ENS Lyon, France
- **Miguel A. Bañares**, University
Salamanca, Spain

T9

Characterization of catalysts and of catalytic reactions - Analytical developments

Chair: **Valérie Briois**, SOLEIL Synchrotron, France

- **Ovidiu Ersen**, IPCMS - University Strasbourg, France
- **Héloïse Tissot**, UCCS - University Lille, France
- **Amélie Rochet**, CNPEM - Brazilian Synchrotron Light Lab, Brazil
- **Olivier Delpoux**, IFP Energies nouvelles, France
- **Davide Ferri**, Paul Scherrer Institute - Villigen, Switzerland
- **Andrew King**, SOLEIL Synchrotron, France

T10

Transient methods in heterogeneous catalysis

Chair: **Evgeniy Redekop**, University of Oslo, Norway

- **Yves Schuurman**, IRCELYON, France
- **Evgenii Kondratenko**, Leibniz-Institute for Catalysis, Germany

T11

Chemical engineering and process technologies for catalysis

Chair: **Pascal Fongarland**, Université Claude-Bernard Lyon 1, France

- **Clémence Nikitine**, IFP Energies nouvelles, France
- **Henrik Grenman**, Åbo Akademi University, Finland

T12

Surface science approaches

Chair: **Spiros Zafeiratos**, University Strasbourg, France

- **Laerte Patera**, University of Innsbruck, Austria
- **Wen Luo**, Shanghai University, China
- **Luca Artiglia**, Paul Scherrer Institut, Switzerland
- **Mathias Barreau**, University of Caen Normandy, France
- **Yaroslava Lykhach**, University of Erlangen-Nuremberg, Germany

T13

Photocatalysis

Chair: **Audrey Bonduelle**, IFP Energies nouvelles, France

- **Julien Bonin**, University of Paris, France
- **Nicolas Keller**, University of Strasbourg, France
- **Eric Puzenat**, IRCELYON, France
- **Elena Selli**, University of Milan, Italy
- **Jennifer Strunk**, University of Munich, Germany

T14

Catalysis at electrodes

Chair: **Philippe Vernoux**, IRCELYON, France

- **Elena Baranova**, Ottawa University, Canada
- **Antonio De Lucas-Consuegra**, University of Castilla La Mancha, Spain
- **Costas Vayenas**, University of Patras, Greece
- **Jose Manuel Serra Alfaro**, ITQ Valencia, Spain
- **Philipp Röse**, Karlsruhe Institute of Technology, Germany
- **Carine Michel**, ENS Lyon, France

T15

Non-conventional activation methods and media

Chair: **Catherine Batiot-Dupeyrat**, IC2MP Poitiers, France

- > **Xin Tu**, University of Liverpool, United Kingdom
- > **Tony Chave**, ICSM Marcoule, France
- > **Giancarlo Cravotto**, University of Torino, Italy
- > **Frédéric Lamaty**, IBMM Montpellier, France
- > **Margarida Gomes**, ENS Lyon, France

T16

Data as the key resource in digital catalysis

Chairs: **Annette Trunschke**, FHI Berlin, Germany | **Pedro Mendes**, University Lisbon Portugal

- **Stephan Schunk**, hte GmbH, Germany
- **Abraham Nieva de la Hidalga**, UK Catalysis Hub - Cardiff University, UK
- **Susannah Scott**, University of California Santa Barbara, USA
- **Matthias Beller**, Leibniz Institute for Catalysis, Germany

T17

Catalysis in refining and petrochemistry : current and future trends

Chair: **Elodie Devers**, IFP Energies nouvelles, France

- **Stella Bezergianni**, Center for Research & Technology Hellas, Greece
- **Joris Thybaut**, Ghent University, Belgium
- **Michele Sarazen**, Princeton University, USA
- **Christophe Bouchy**, IFP Energies nouvelles, France

T18

Transitioning from refining to circular and sustainable chemistry : transition metal sulfide catalysts at the crossroads

Chairs: **Laëtitia Olivier**, University Caen, France | **Hirsa Torres Galvis**, Ketjen, The Netherlands

- **Emiel Hensen**, Eindhoven University of Technology, The Netherlands
- **Hong Nie**, SINOPEC Research Institute of Petroleum Processing CO., LTD, China
- **Etienne Girard**, IFP Energies nouvelles, France

T19

Catalysis by metals and metal oxides

Chair: **Eric Marceau**, UCCS Lille, France

- **Robert Rioux**, Pennsylvania State University, USA
- **Tracy Lohr**, Shell, USA
- **Noémie Perret**, IRCELYON, France
- **Stefania Albonetti**, University of Bologna, Italy
- **Said Laassiri**, Mohammed VI Polytechnic University, Morocco

T20

Single-atom catalysis

Chairs: **Tao Zhang**, State Key Laboratory of Catalysis, Dalian Institute of Chemical Physics, China | **Graham Hutchings**, Cardiff University, UK

- **Abhaya K. Datye**, The University of New Mexico, USA
- **Javier Pérez- Ramirez**, ETH Zürich, Switzerland
- **Philipp Christopher**, University of California, Santa Barbara, USA
- **Richard Catlow**, Cardiff University, UK
- **Aiqin Wang**, State Key Laboratory of Catalysis, Dalian Institute of Chemical Physics, China

T21

Acid-base catalysis

Chair: **Nadine Essayem**, IRCELYON, France

- **Antonella Gervasini**, University of Milano, Italy
- **Marco A. Fraga**, INT, Brazil
- **Anjali Patel**, University of Baroda, India
- **Friederike Jentoft**, University of Massachusetts, USA

T22

Catalytic reactions for hydrogen storage and release

Chairs: **Valérie Meille**, IRCELYON, France | **Laura Barrio**, University Bilbao, Spain

- **Laura Barrio**, University of Bilbao, Spain
- **Petra De Jongh**, Utrecht University, The Netherlands
- **Nicolas Bion**, IC2MP, France
- **Dmitri Bessabarov**, DST HySA Infrastructure Center of Competence, South Africa
- **Raphaël Janot**, LRCS, France

T23

H₂ production and utilization as energy vector

Chair: **Anne-Cécile Roger**, University Strasbourg, France

- **Teko Napporn**, University of Poitiers, France
- **Narcis Homs**, University of Barcelona, Spain
- **Leon Lefferts**, University of Twente, The Netherlands
- **Gonzalo Prieto**, ITQ Valencia, Spain

T24

Conversion of Nitrogen based small molecules (N₂, NH₃, NO_x, ...)

Chairs: **Nicolas Bion**, IC2MP, Poitiers, France | **Xavier Courtois**, IC2MP, Poitiers, France

- **Masaaki Haneda**, Nagoya Institute of Technology (NITech), Japan
- **Douglas M. Farlane**, Monash University, Australia
- **Ilenia Rossetti**, University of Milano, Italy
- **Davide Ferri**, Paul Scherrer Institute - Villigen, Switzerland

T25

Valorization of C1 molecules (CH₄, CO, MeOH) except CO₂

Chair: **Yves Schuurman**, IRCELYON, France

- **Andrei Khodakov**, University of Sciences and Technologies of Lille, France
- **Dmitry Murzin**, Åbo Akademi, University Finland
- **Unni Olsbye**, University of Oslo, Norway
- **De Chen**, Norwegian University of Science and Technology, Norway
- **Xander Nijhuis**, SABIC, The Netherlands
- **Martin Mulher**, Ruhr University Bochum, Germany

T26

CO₂ conversion

Chair: **Jérôme Canivet**,
IRCELYON, France

- **Atsushi Urakawa**,
TU Delft, The Netherlands
- **Carmen Claver**,
Universitat Rovira i Virgili -
Tarragona, Spain
- **Richard Heyn**,
Sintef, Norway
- **Caroline Mellot**,
College de France, France
- **Murielle Chavarot-Kerlidou**,
CEA-CNRS, France

T27

Conversion of biomass and waste resources - General

Chair: **Dorothee Laurenti**,
IRCELYON, France

- **François Jérôme**,
IC2MP - University
of Poitiers, France
- **Elodie Blanco**,
Pontificia Universidad Católica
de Chile - Santiago, Chile
- **Oliver Gutierrez**,
Chevron, USA
- **Roberto Rinaldi**,
Imperial College London, UK

T28

Conversion of biomass and waste resources - Fuels from biomass

Chair: **Christophe Geantet**,
IRCELYON, France

- **David Kubicka**,
UCT Prague, Czech republic
- **Jose Luis Zotin**,
Petrobras, Brazil
- **Antoine Daudin**,
IFP Energies nouvelles, France
- **Louise Olsson**,
Chalmers University, Sweden

T29

Conversion of biomass and waste resources - Chemicals from biomass

Chair: **Nathalie Tanchoux**,
ICGM, France

- **Karine De Oliveira Vigier**,
IC2MP - University of Poitiers,
France
- **Mickael Capron**, UCCS -
University of Lille, France
- **Agnieszka Ruppert**, Lodz
University of Technology,
Poland
- **Pieter Bruijninx**, Utrecht
University, The Netherlands
- **Yoshinao Nakagawa**, Tohoku
University, Japan

T30

Catalysis for polymer synthesis, plastic recycling and upcycling

Chair: **Sylvie Maury**, IFP
Energies nouvelles, France |
Vincent Monteil, CPE Lyon,
France | **Ludovic Pinard**,
University Caen, France

- **Nuno Rocha Bathala**,
IRCELYON, France
- **Rob Duchateau**,
University Groningen,
SABIC, The Netherlands
- **Nick Friederichs**,
SABIC, The Netherlands
- **Eva Harth**, University of
Houston, United States
- **Muxina Konarova**,
University of Queensland,
Australia
- **Jean-François Lamonier**,
UCCS - University of Lille,
France
- **Stefan Mecking**,
University of Constance,
Germany
- **Jean Raynaud**,
CP2M Lyon, France
- **John Severn**,
AVIENT, The Netherlands
- **Daniel Taton**,
LCPO - University
of Bordeaux, France
- **Ina Vollmer**,
Utrecht University,
The Netherlands

T31

Water and air treatment

Chairs: **Sonia Gil**, IRCELYON,
France | **Pascal Granger**,
UCCS Lille, France

- **Juan Ramón
Gonzalez-Velasco**,
University of the
Basque Country, Spain
- **Luca Lietti**,
Politecnico di Milano, Italy
- **Fabien Can**,
IC2MP - University
of Poitiers, France
- **Vasile Parvulescu**,
University of
Bucharest, Romania
- **Dionysios Dionysiou**,
University of Cincinnati,
USA

T32

Chemicals and fine chemistry

Chair: **Rafael Gramage-Doria**,
University Rennes, France

- **Ivana Fleischer**,
University of Tuebingen,
Germany
- **M. Angeles Fernandez Ibanez**,
University of Amsterdam,
The Netherlands
- **Baskar Sundararaju**,
Indian Institute of
Technology Kanpur, India
- **Franck Launay**,
Sorbonne University,
France

DETAILED PROGRAM

KEY FOR
SESSION CODES:
**HOW TO READ THE
SESSIONS CODES**

MON-T10-01

Monday

Topic 10

Session 1

Plenary sessions

Poster sessions

Professional
Development events

Lunches and Breaks

Oral Sessions

Social Events

Panel sessions

K Keynote
Presentation



SUNDAY 14 JULY

14:00 > 20:00		Registration opening	HALL BELLECOUR
15:30 > 16:10		Opening Ceremony	AMPHITHEATRE
16:10 > 16:30		Young IACS Award Ceremony	AMPHITHEATRE
16:30 > 17:20		2024 Heinz Heinemann Award of IACS Lecture • Kazunari DOMEN	AMPHITHEATRE
17:20 > 18:10		2024 International Catalysis Award of IACS Lecture • Yuriy ROMAN-LESHKOV	AMPHITHEATRE
18:10 > 18:30		Rhodium Sponsor Lecture • Marissa REIGEL, Saint-Gobain NorPro	AMPHITHEATRE
18:30 > 20:00		Welcome reception	



MONDAY 15 JULY •

08:30 > 09:15	PLENARY LECTURE	Keiichi TOMISHIGE • <i>"Heterogeneous catalysis for hydrodeoxygenation of biomass-based platform chemicals"</i>	AMPHITHEATRE
09:25 > 10:25	MON-T8-01	Characterization of catalysts and of catalytic reactions - General	GRATTE CIEL 1+2+3
09:25 > 10:25	MON-T10-01	Transient methods in heterogeneous catalysis	TÊTE D'OR 1+2
		09:25 > 10:05 K Rebecca FUSHIMI • <i>"Challenges, successes and failures in advancing the time scale of operando experiments for transient kinetic studies"</i>	
09:25 > 10:25	MON-T13-01	Photocatalysis	AMPHITHEATRE
09:25 > 10:25	MON-T17-01	Catalysis in refining and petrochemistry : current and future trends	AUDITORIUM PASTEUR
09:25 > 10:25	MON-T20-01	Single-atom catalysis	AUDITORIUM LUMIÈRE
09:25 > 10:25	MON-T24-01	Conversion of Nitrogen based small molecules (N ₂ , NH ₃ , NO _x , ...)	PRESTIGE GRATTE CIEL
09:25 > 10:25	MON-T30-01	Catalysis for polymer synthesis, plastic recycling and upcycling	BELLECOUR 1+2+3
		09:45 > 10:25 K Susannah SCOTT • <i>"Tandem catalytic upcycling of polyolefins: From monomers to value-added molecules"</i>	
10:25 > 11:00		☕ COFFEE BREAK	EXHIBITION HALL
11:00 > 12:20	MON-T8-02	Characterization of catalysts and of catalytic reactions - General	GRATTE CIEL 1+2+3
11:00 > 12:20	MON-T10-02	Transient methods in heterogeneous catalysis	TÊTE D'OR 1+2
11:00 > 12:20	MON-T13-02	Photocatalysis	AMPHITHEATRE
		11:40 > 12:20 K Kazuhiro TAKANABE • <i>"Electrolyte engineering for water splitting: Reactant switching, reaction mechanism, and (photo)catalytic activity"</i>	
11:00 > 12:20	MON-T17-02	Catalysis in refining and petrochemistry: current and future trends	AUDITORIUM PASTEUR
11:00 > 12:20	MON-T20-02	Single-atom catalysis	AUDITORIUM LUMIÈRE
11:00 > 12:20	MON-T24-02	Conversion of Nitrogen based small molecules (N ₂ , NH ₃ , NO _x , ...)	PRESTIGE GRATTE CIEL
11:00 > 12:20	MON-T30-02	Catalysis for polymer synthesis, plastic recycling and upcycling	BELLECOUR 1+2+3
12:20 > 14:00		🍴 LUNCH BREAK	
12:30 > 13:30		"Tending to our Wings" • Lunch event	SALON PASTEUR



MONDAY 15 JULY •

14:00 > 15:40	MON-T3-01	Enzymatic, hybrid and bioinspired catalysis	AUDITORIUM PASTEUR
		14:00 > 14:40 K Kylie VINCENT • <i>"Snapshots of biological hydrogen cycling - coupling electrochemistry, structure and spectroscopy to probe the mechanism of hydrogenases"</i>	
14:00 > 15:40	MON-T9-01	Characterization of catalysts and of catalytic reactions - Analytical developments	GRATTE CIEL 1+2+3
		15:00 > 15:40 K Arnaud TRAVERTE • <i>"Determination of thermo-kinetic parameters by in situ / operando IR spectroscopy"</i>	
14:00 > 15:40	MON-T13-03	Photocatalysis	AMPHITHEATRE
14:00 > 15:40	MON-T20-03	Single-atom catalysis	AUDITORIUM LUMIÈRE
14:00 > 15:40	MON-T21-01	Acid-base catalysis	PRESTIGE GRATTE CIEL
14:00 > 15:40	MON-T24-03	Conversion of Nitrogen based small molecules (N ₂ , NH ₃ , NO _x , ...)	TÊTE D'OR 1+2
14:00 > 15:40	MON-T30-03	Catalysis for polymer synthesis, plastic recycling and upcycling	BELLECOUR 1+2+3
15:40 > 16:10		☕ COFFEE BREAK • EXHIBITION • POSTERS	EXHIBITION HALL
16:10 > 17:30	MON-T3-02	Enzymatic, hybrid and bioinspired catalysis	AUDITORIUM PASTEUR
16:10 > 17:30	MON-T4-01	Preparation of heterogeneous catalysts	TÊTE D'OR 1+2
		16:10 > 16:50 K Joongjai PANPRANOT • <i>"Super catalytic performances of in-situ electrochemically induced negatively charged metal nanoparticles for CO₂ reduction"</i>	
16:10 > 17:30	MON-T9-02	Characterization of catalysts and of catalytic reactions - Analytical developments	GRATTE CIEL 1+2+3
16:10 > 17:30	MON-T13-04	Photocatalysis	AMPHITHEATRE
16:10 > 17:30	MON-T20-04	Single-atom catalysis	AUDITORIUM LUMIÈRE
16:10 > 17:30	MON-T21-02	Acid-base catalysis	PRESTIGE GRATTE CIEL
		16:50 > 17:30 K Marcelo Maciel PEREIRA • <i>"From biomass to fuels: a new carbon-efficient route controlled by acid and basic catalysts"</i>	
16:10 > 17:30	MON-T26-01	CO ₂ conversion	BELLECOUR 1+2+3
17:30 > 19:30	MON-POST01	📄 POSTER SESSION 1	EXHIBITION HALL

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TUESDAY 16 JULY

08:30 > 09:15	PLENARY LECTURE	Umit OZKAN • "High-temperature Electrocatalysis: Challenges and Opportunities"	AMPHITHEATRE
09:25 > 10:25	TUE-T4-02	Preparation of heterogeneous catalysts 09:25 > 10:05 K Petra DE JONGH • "Bimetallic Ni-Cu and Cu-Pd (de)Hydrogenation Catalysts – Composition and Particle Size Effects"	AMPHITHEATRE
09:25 > 10:25	TUE-T7-01	Computational approaches at the atomic scale of catalysis - Quantum simulation combined with machine learning for catalysis	AUDITORIUM PASTEUR
09:25 > 10:25	TUE-T8-03	Characterization of catalysts and of catalytic reactions - General	AUDITORIUM LUMIÈRE
09:25 > 10:25	TUE-T12-01	Surface science approaches	TÊTE D'OR 1+2
09:25 > 10:25	TUE-T13-05	Photocatalysis	PRESTIGE GRATTE CIEL
09:25 > 10:25	TUE-T26-02	CO ₂ conversion	BELLECOUR 1+2+3
09:25 > 10:25	TUE-T27-01	Conversion of biomass and waste resources - General	GRATTE CIEL 1+2+3
10:25 > 11:00		☕ COFFEE BREAK • EXHIBITION • POSTERS	EXHIBITION HALL
11:00 > 12:20	TUE-T7-02	Computational approaches at the atomic scale of catalysis - Quantum simulation combined with machine learning for catalysis	AUDITORIUM PASTEUR
11:00 > 12:20	TUE-T8-04	Characterization of catalysts and of catalytic reactions - General 11:40 > 12:20 K Elena GROPPPO • "Highlighting the adsorbate-induced ductility in supported metal nanoparticles through a multi-technique approach"	AUDITORIUM LUMIÈRE
11:00 > 12:20	TUE-T12-02	Surface science approaches	TÊTE D'OR 1+2
11:00 > 12:20	TUE-T13-06	Photocatalysis	PRESTIGE GRATTE CIEL
11:00 > 12:20	TUE-T23-01	H ₂ production and utilization as energy vector	BELLECOUR 1+2+3
11:00 > 12:20	TUE-T26-03	CO ₂ conversion	AMPHITHEATRE
11:00 > 12:20	TUE-T27-02	Conversion of biomass and waste resources - General	GRATTE CIEL 1+2+3
12:20 > 14:00		🍴 LUNCH BREAK	
12:30 > 13:30		"Tending to our Roots" • Lunch event	SALON PASTEUR
14:00 > 15:40	TUE-T4-03	Preparation of heterogeneous catalysts 14:00 > 14:40 K Feng-Shou XIAO • "Zeolite fixed metal nanoparticles as efficient heterogeneous catalysts"	AUDITORIUM LUMIÈRE



TUESDAY 16 JULY

14:00 > 15:40	TUE-T7-03	Computational approaches at the atomic scale of catalysis - Quantum simulation combined with machine learning for catalysis	AUDITORIUM PASTEUR
		15:00 > 15:40 K Alexander TKATCHENKO • "Artificial Intelligence Leap for Quantum Simulations in Materials Science and Catalysis"	
14:00 > 15:40	TUE-T8-05	Characterization of catalysts and of catalytic reactions - General	TÊTE D'OR 1+2
14:00 > 15:40	TUE-T13-07	Photocatalysis	PRESTIGE GRATTE CIEL
14:00 > 15:40	TUE-T23-02	H ₂ production and utilization as energy vector	BELLECOUR 1+2+3
14:00 > 15:40	TUE-T26-04	CO ₂ conversion	AMPHITHEATRE
14:00 > 15:40	TUE-T28-01	Conversion of biomass and waste resources - Fuels from biomass	GRATTE CIEL 1+2+3
15:40 > 16:10		☕ COFFEE BREAK • EXHIBITION • POSTERS	EXHIBITION HALL
16:10 > 17:30	TUE-T4-04	Preparation of heterogeneous catalysts	AUDITORIUM LUMIÈRE
16:10 > 17:30	TUE-T5-01	Computational approaches at the atomic scale of catalysis - General 16:10 > 16:50 K Karoliina HONKALA • "Insights from first principles calculations on the electro-oxidation of biomass on metal catalysts"	AUDITORIUM PASTEUR
16:10 > 17:30	TUE-T8-06	Characterization of catalysts and of catalytic reactions - General	TÊTE D'OR 1+2
16:10 > 17:30	TUE-T23-03	H ₂ production and utilization as energy vector	BELLECOUR 1+2+3
16:10 > 17:30	TUE-T25-01	Valorization of C1 molecules (CH ₄ , CO, MeOH) except CO ₂	PRESTIGE GRATTE CIEL
16:10 > 17:30	TUE-T26-05	CO ₂ conversion 16:50 > 17:30 K Thibault CANTAT • "Catalysis for a circular carbon economy: CO ₂ chemistry and chemical recycling of waste plastics"	AMPHITHEATRE
16:10 > 17:30	TUE-T28-02	Conversion of biomass and waste resources - Fuels from biomass	GRATTE CIEL 1+2+3
17:30 > 19:30	TUE-POST02	📄 POSTER SESSION 2	EXHIBITION HALL
19:30 > 21:00		Young Scientists Career Fair	SALON PASTEUR

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WEDNESDAY 17 JULY •

08:30 > 09:15	PLENARY LECTURE	Jeroen van BOKHOVEN • “Advanced Spectroscopic tools applied to heterogeneous catalysis”	AMPHITHEATRE
09:25 > 10:25	WED-T6-01	Computational approaches at the atomic scale of catalysis - Unifying Concepts to Tackle Dynamics in Computational Catalysis	TÊTE D'OR 1+2
09:25 > 10:25	WED-T15-01	Non-conventional activation methods and media	BELLECOUR 1+2+3
09:25 > 10:25	WED-T18-01	Transitioning from refining to circular and sustainable chemistry : transition metal sulfide catalysts at the crossroads	AMPHITHEATRE
09:25 > 10:05		09:25 > 10:05 K Thomas JARAMILLO • “Transition metal sulfides and related catalysts for electrochemical and photoelectrochemical (PEC) H ₂ production and use”	
09:25 > 10:25	WED-T22-01	Catalytic reactions for hydrogen storage and release	PRESTIGE GRATTE CIEL
09:25 > 10:25	WED-T25-02	Valorization of C1 molecules (CH ₄ , CO, MeOH) except CO ₂	GRATTE CIEL 1+2+3
09:25 > 10:25	WED-T26-06	CO ₂ conversion	AUDITORIUM LUMIÈRE
09:25 > 10:25	WED-T32-01	Chemicals and fine chemistry	AUDITORIUM PASTEUR
10:25 > 11:00		☕ COFFEE BREAK • EXHIBITION • POSTERS	EXHIBITION HALL
11:00 > 12:20	WED-T6-02	Computational approaches at the atomic scale of catalysis - Unifying Concepts to Tackle Dynamics in Computational Catalysis	AUDITORIUM LUMIÈRE
11:00 > 12:20		11:40 > 12:20 K Veronique VAN SPEYBROECK • “A dynamics view on zeolite catalysis at operating conditions bridging length and time scales”	
11:00 > 12:40	WED-T15-02	Non-conventional activation methods and media	BELLECOUR 1+2+3
11:00 > 12:40		11:00 > 11:40 K Karine DE OLIVEIRA VIGIER • “Conversion of biomass to fine chemicals: deep eutectic solvents or mechanocatalysis strategies”	
11:00 > 12:20	WED-T18-02	Transitioning from refining to circular and sustainable chemistry : transition metal sulfide catalysts at the crossroads	TÊTE D'OR 1+2
11:00 > 12:20	WED-T22-02	Catalytic reactions for hydrogen storage and release	PRESTIGE GRATTE CIEL
11:00 > 12:20	WED-T25-03	Valorization of C1 molecules (CH ₄ , CO, MeOH) except CO ₂	GRATTE CIEL 1+2+3

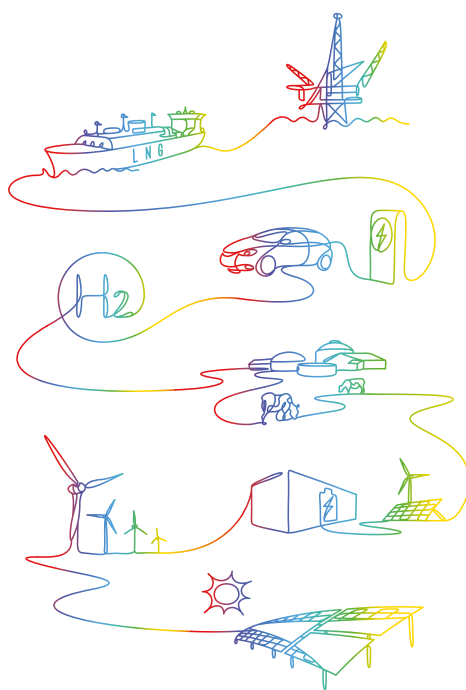


WEDNESDAY 17 JULY •

11:00 > 12:20	WED-T26-07	CO ₂ conversion	AMPHITHEATRE
11:00 > 12:20	WED-T32-02	Chemicals and fine chemistry	AUDITORIUM PASTEUR
12:20 > 14:00		🍴 LUNCH BREAK	
12:30 > 13:30		“Tending to our Wings” • Lunch event	SALON PASTEUR
14:00 > 17:00		Excursions Free time	


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THURSDAY 18 JULY

08:30 > 09:15	PLENARY LECTURE	Thomas MASCHMEYER • “Driving sustainable technology through catalysis”	AMPHITHEATRE
09:25 > 10:25	THU-T5-02	Computational approaches at the atomic scale of catalysis - General	PRESTIGE GRATTE CIEL
09:25 > 10:25	THU-T15-03	Non-conventional activation methods and media	AUDITORIUM PASTEUR
09:25 > 10:25	THU-T19-01	Catalysis by metals and metal oxides	GRATTE CIEL 1+2+3
09:25 > 10:25	THU-T22-03	Catalytic reactions for hydrogen storage and release	AMPHITHEATRE
		09:25 > 10:05 K Ping CHEN • “Hydrides for Catalytic Ammonia Synthesis”	
09:25 > 10:25	THU-T25-04	Valorization of C1 molecules (CH ₄ , CO, MeOH) except CO ₂	TÊTE D'OR 1+2
09:25 > 10:25	THU-T26-08	CO ₂ conversion	BELLECOUR 1+2+3
09:25 > 10:25	THU-T28-03	Conversion of biomass and waste resources - Fuels from biomass	AUDITORIUM LUMIÈRE
10:25 > 11:00		☕ COFFEE BREAK • EXHIBITION • POSTERS	EXHIBITION HALL
11:00 > 12:20	THU-T8-07	Characterization of catalysts and of catalytic reactions - General	PRESTIGE GRATTE CIEL
11:00 > 12:20	THU-T14-01	Catalysis at electrodes	AMPHITHEATRE
		11:00 > 11:40 K Beatriz ROLDAN CUENYA • “Beyond Static Models: Chemical Dynamics in Energy Conversion Catalysts”	
11:00 > 12:20	THU-T19-02	Catalysis by metals and metal oxides	GRATTE CIEL 1+2+3
		11:40 > 12:20 K Ding MA • “Low-Temperature Catalytic Water Activation and Hydrogen Production”	
11:00 > 12:20	THU-T22-04	Catalytic reactions for hydrogen storage and release	AUDITORIUM PASTEUR
11:00 > 12:20	THU-T25-05	Valorization of C1 molecules (CH ₄ , CO, MeOH) except CO ₂	TÊTE D'OR 1+2
11:00 > 12:20	THU-T26-09	CO ₂ conversion	BELLECOUR 1+2+3
11:00 > 11:40	THU-T28-04	Conversion of biomass and waste resources - Fuels from biomass	AUDITORIUM LUMIÈRE
11:40 > 12:20	THU-T29-01	Conversion of biomass and waste resources - Chemicals from biomass	AUDITORIUM LUMIÈRE



THURSDAY 18 JULY

12:20 > 14:00		🍴 LUNCH BREAK	
12:30 > 13:30		“Tending to our Roots” • Lunch event	SALON PASTEUR
14:00 > 15:40	THU-T2-01	Molecular catalysis: main group and organocatalysis	AUDITORIUM PASTEUR
		14:00 > 14:40 K Joost REEK • “Bridging the gap between homogeneous and heterogeneous catalysis using Supramolecular cages”	
14:00 > 15:40	THU-T14-02	Catalysis at electrodes	AMPHITHEATRE
14:00 > 15:40	THU-T16-01	Data as the key resource in digital catalysis	TÊTE D'OR 1+2
14:00 > 15:40	THU-T19-03	Catalysis by metals and metal oxides	GRATTE CIEL 1+2+3
14:00 > 15:40	THU-T25-06	Valorization of C1 molecules (CH ₄ , CO, MeOH) except CO ₂	AUDITORIUM LUMIÈRE
		15:00 > 15:40 K Stian SVELLE • “Conversion of methane to methanol over Cu-zeolites in a stepwise reaction - structure performance relationships”	
14:00 > 15:40	THU-T26-10	CO ₂ conversion	BELLECOUR 1+2+3
14:00 > 15:40	THU-T29-02	Conversion of biomass and waste resources - Chemicals from biomass	PRESTIGE GRATTE CIEL
15:40 > 16:10		☕ COFFEE BREAK • EXHIBITION • POSTERS	EXHIBITION HALL
16:10 > 17:30	PAN01	Panel Session • Future of refining and chemicals in the context of decarbonization and sustainable development	AUDITORIUM LUMIÈRE
16:10 > 17:30	PAN02	Panel Session • Future of industrial chemistry in the context of sustainable development	BELLECOUR 1+2+3
16:10 > 17:30	PAN03	Panel Session • The Present and Future of Electricity-Based Heating in Catalysis	PRESTIGE GRATTE-CIEL
16:10 > 17:30	PAN04	Panel Session • Data as the key resource in digital catalysis	AUDITORIUM PASTEUR
16:10 > 17:30	PAN05	Publishing Panel session • Meet the editorial boards!	AMPHITHEATRE
17:30 > 19:30	THU-POST03	📄 POSTER SESSION 3	EXHIBITION HALL
20:00 > 01:00		Conference Gala Dinner	LA SUCRIÈRE
20:00 > 01:00		Young Scientists Party	LE SUCRE

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FRIDAY 19 JULY •

08:30 > 09:15	PLENARY LECTURE	Ulrike DIEBOLD • “Oxide Surface Science: Chemistry at the Atomic Scale”	AMPHITHEATRE
09:25 > 10:25	FRI-T1-01	Molecular catalysis: metal-based catalysts	AUDITORIUM PASTEUR
		09:25 > 10:05 K Kyoko NOZAKI • “Late Transition Metal Catalysts for Polymer Synthesis and Degradation”	
09:25 > 10:25	FRI-T4-05	Preparation of heterogeneous catalysts	PRESTIGE GRATTE CIEL
09:25 > 10:25	FRI-T11-01	Chemical engineering and process technologies for catalysis	BELLECOUR 1+2+3
		09:25 > 10:05 K Joris THYBAUT • “Electricity is in the catalyst: a reaction engineering approach to gas treatment and valorization”	
09:25 > 10:25	FRI-T14-03	Catalysis at electrodes	AUDITORIUM LUMIÈRE
09:25 > 10:25	FRI-T19-04	Catalysis by metals and metal oxides	GRATTE CIEL 1+2+3
09:25 > 10:25	FRI-T29-03	Conversion of biomass and waste resources - Chemicals from biomass	AMPHITHEATRE
09:25 > 10:25	FRI-T31-01	Water and air treatment	TÊTE D'OR 1+2
10:25 > 11:00		☕ COFFEE BREAK	EXHIBITION HALL
11:00 > 12:20	FRI-T1-02	Molecular catalysis: metal-based catalysts	AUDITORIUM PASTEUR
11:00 > 12:20	FRI-T5-03	Computational approaches at the atomic scale of catalysis - General	PRESTIGE GRATTE CIEL
11:00 > 12:20	FRI-T11-02	Chemical engineering and process technologies for catalysis	BELLECOUR 1+2+3
11:00 > 12:20	FRI-T14-04	Catalysis at electrodes	AUDITORIUM LUMIÈRE
11:00 > 12:20	FRI-T19-05	Catalysis by metals and metal oxides	GRATTE CIEL 1+2+3
11:00 > 12:20	FRI-T29-04	Conversion of biomass and waste resources - Chemicals from biomass	AMPHITHEATRE
		11:00 > 11:40 K Tao ZHANG • “Catalytic valorization of lignocellulose to low-molecular oxygen- and nitrogen-containing compounds”	
11:00 > 12:20	FRI-T31-02	Water and air treatment	TÊTE D'OR 1+2

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FRIDAY 19 JULY •

12:20 > 14:00		🍴 LUNCH BREAK	
12:30 > 13:30		“Tending to a Better Future” • Lunch event	SALON PASTEUR
14:00 > 16:00	FRI-T1-03	Molecular catalysis: metal-based catalysts	AUDITORIUM PASTEUR
14:00 > 16:00	FRI-T4-06	Preparation of heterogeneous catalysts	GRATTE CIEL 1+2+3
14:00 > 16:00	FRI-T5-04	Computational approaches at the atomic scale of catalysis - General	PRESTIGE GRATTE CIEL
14:00 > 16:00	FRI-T11-03	Chemical engineering and process technologies for catalysis	BELLECOUR 1+2+3
14:00 > 16:00	FRI-T14-05	Catalysis at electrodes	AUDITORIUM LUMIÈRE
14:00 > 16:00	FRI-T29-05	Conversion of biomass and waste resources - Chemicals from biomass	AMPHITHEATRE
14:00 > 16:00	FRI-T31-03	Water and air treatment	TÊTE D'OR 1+2
16:10 > 17:30	AW04	2020 Heinz Heinemann Award of IACS Lecture Avelino CORMA • “Ab initio design of solid catalysts: From the fundamentals to the application”	AMPHITHEATRE
17:00 > 17:30	CLO	Closing Ceremony	AMPHITHEATRE
17:30 > 18:00	CLO	Closing Drink	AMPHITHEATRE



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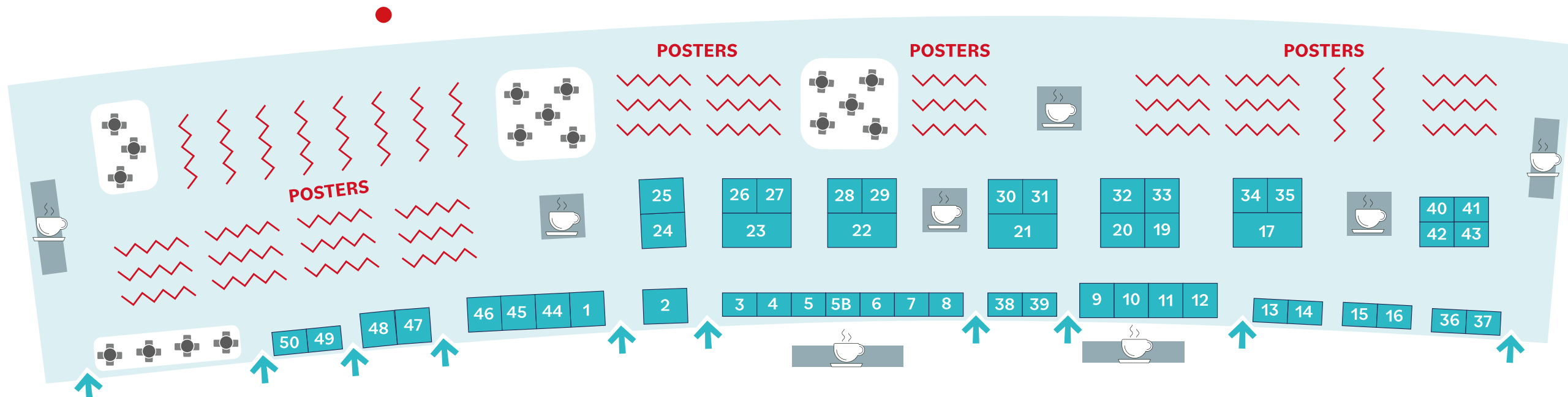
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PRACTICAL INFORMATION

REGISTRATION DESK Hall Bellecour

- **SUNDAY 14 JULY**
14:00 > 20:00
- **MONDAY 15 JULY**
08:00 > 20:00
- **TUESDAY 16 JULY**
08:00 > 20:00
- **WEDNESDAY 17 JULY**
08:00 > 15:00
- **THURSDAY 18 JULY**
08:00 > 20:00
- **FRIDAY 19 JULY**
08:00 > 18:00

WIFI

All the rooms and halls are covered with a Wifi connection.

Network name
ICC-2024

Password
WelcomeToLyon

LANGUAGE

English is the official language of the conference.

DRESS CODE

The dress code for the conference and social events is casual/informal.



Badges info

For security reasons, you are required to wear your badge at all times while at the Conference.

Conference and exhibitor badges give access to the welcome reception, sessions, posters and exhibition, coffee breaks, official ceremonies.



Cloakroom

A cloakroom and baggage room is available near the registration desk.

But for security reasons, we suggest that you leave your belongings at your hotel.

For 'Lost and found' items: please check at the registration desk.



Coffee breaks

The coffee breaks are served in the Exhibition Hall - Level -2.

- **Morning coffee break:**
10:25 > 11:00
- **Afternoon coffee break:**
15:40 > 16:10



Poster sessions

The poster sessions will take place in the Exhibition Hall of Lyon Convention Centre, along with the exhibition.

Posters sessions are proposed with snacks and drinks and scheduled on:

- **Mon. 15 July** 17:30 > 19:30
- **Tues. 16 July** 17:30 > 19:30
- **Thur. 18 July** 17:30 > 19:30



Lunches

Registration fees do not include lunches. They are proposed as additional tickets, either as seated lunch or lunch bag. There is no guarantee of lunch tickets availability on-site.

- Seated lunches are served in **Forum 1 - Level -2**
- Lunch bags are to be collected in **Foyer Forum 2 - Level -2**



Working and lounge areas

You will find workspaces and lounge areas in several zones of the convention centre, with electricity sockets and USB chargers:

- **Quiet workspace:**
Salon Lumière - Level -1
- **Lounge areas:** in the Exhibition Hall (Level -2), in **Foyer Tête d'Or Parc** (Level +1), in **Foyer Gratte-Ciel Parc** (Level +2), in **Place Haute** (Level +1).



Help

Should you have questions or require any help, please ask at the registration desk or liaise with our wonderful team of volunteers wearing

red T-shirts!

CONGRESS VENUE



Lyon Convention Centre

50, Quai Charles de Gaulle - 69006 Lyon
Cité Internationale

© Nicolas Robin



Access by public transport

Each participant will be offered a 5-day pass, activated on the first entry on the TCL network, and providing an unlimited access to subways, trams, buses and funiculars.

Bus stop

Cité Internationale

- **Line C1-C2:** from Part Dieu station
- **Line C5:** from Cordeliers metro station
- **Line C4:** from Jean Macé metro station

Car Parks

- **P1 - P2 - P0 public car parks**
2 to 10 min. walking distance

Velo'v Bike rental

- **4 bike rental stations**
in the Cité Internationale
- **1 to 3 days passes**

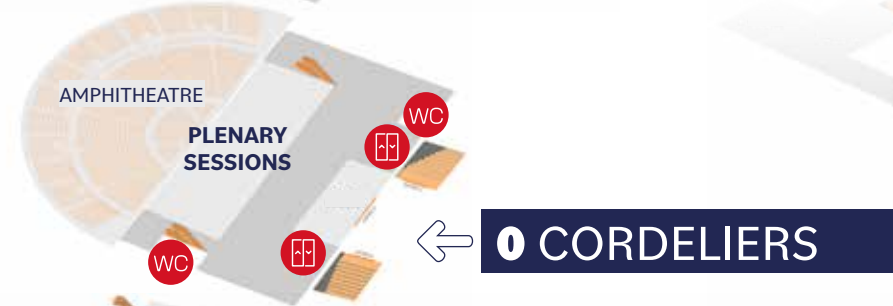
+2



+1



0



-1



-2



CONVENTION CENTRE FLOORPLAN



EXCURSIONS

Wednesday 17 June afternoon

“Vieux-Lyon” Unesco’s World Heritage district

The tour begins on the esplanade of Fourvière and its splendid panorama on the city. Then descent into the Vieux-Lyon Unesco’s World Heritage district, with a walk through the narrow cobbled alleyways and the famous “traboules”, then finish with the visit of the Saint-Jean Cathedral.

Meeting point: PLACE SAINT-JEAN

Visit starting time 14:00

Lyon sightseeing cruise

Enjoy a cruise and live to the rhythm of a city that combines a UNESCO listed heritage with resolutely modern architecture! Sail on the Saône by boarding quai des Célestins, through Vieux-Lyon end then to the Confluence district. Enjoy 1 hour of relaxation where you discover the city of Lyon in all its details.

Meeting point: 2, QUAI DES CÉLESTINS

**Visit starting time 14:00 or 15:15
(2 groups)**

Food tour : “Lyonnaiseries”

You set off on a gourmet walking experience to discover the Old Lyon district, alternating between traboules and tasting breaks. Along the way, meet Lyonnais artisans who are passionate about their craft. They'll share their history, their trade, their know-how and, of course, their delicious, emblematic products for you to sample.

Food Tour with 2 tasting breaks.

Meeting point: PUB DANOIS
23, QUAI ROMAIN ROLLAND

Visit starting time 14:00

Treetop Adventure

Accrobranche Lyon offers a treetop adventure park, just a stone’s throw from Lyon center. It offers high rope courses of varied and progressive difficulties, with unlimited access. Equipped with a harness, you'll make your way through the trees on a discovery trail. The staff is specially trained to ensure the safety of the visitors and they ensure optimal safety thanks to the continuous lifeline system.

Meeting point: LYON FORT DE BRON
10, CHEMIN VIEUX - BRON

Activity starting time 15:00

Vienne & Condrieu vineyards

The visit begins with the guided tour of Vienne. Between Isère and Rhône, the Vienne Condrieu region is steeped in history: vineyards cultivated for millennia, a Roman wall hidden between two buildings, a cathedral standing proudly on the banks of the Rhône... The visit is followed by a tasting at a wine estate. Welcome in the vineyards, presentation of the estate and the Côte Rôtie & Condrieu vineyards.

Meeting point: LYON CONVENTION CENTRE

Bus departure 14:00

Beaujolais: Beautiful vineyards & old stones

The historic capital of Beaujolais, created by the Sires de Beaujeu in the Middle Ages, Beaujeu is home to the Maison du Terroir Beaujolais, a visitor center and boutique, as well as the 12th-century Cluniac church of St. Nicolas. This guided tour is followed by an exploration of Beaujolais terroirs through the tasting of 4 different wines.

Meeting point: LYON CONVENTION CENTRE

Bus departure 14:00

NOTES

Only registered participants can attend.

WEBAPP

The ICC 2024 mobile webapp is your go-to resource to make the most of your conference experience.

Plan your schedule, connect with speakers and attendees, access the floor plan, find exhibitors, and much more!



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Everything you need to know on ICC 2024

www.icc-lyon2024.fr

Holding institutions



Ircelyon



Fondation de la Maison de la Chimie



Société Chimique de France