All courses in blue will take place at FONTANE Amphitheater (DARWIN building) on the LyonTech La Doua Campus

Monday, July 8th	Tuesday, July 9th	Wednesday, July 10th	Thursday, July 11th	Friday, July 12th
	Morning se	essions - Theoritical Courses - Campus	Lyon Tech La Doua - Darwin Building - R	coom Fontannes
	9:00 AM - 10:15 PM	9:00 AM - 10:15 PM	9:00 AM - 10:15 PM	9:00 AM - 10:15 PM
	Fundamentals in the preparation of heterogeneous catalysts Leonarda Liotta	Surface characterization of porous solids and redox properties investigation: basic principles and case studies Leonarda Liotta	Advanced appplications of MOF materials for adsorpion and catalysis Jorge Rodriguez Navarro	Valorisation of biomass by electrocatalysis Jesus Gonzalez Cobos
ļ	10:15 - 10:30 AM	10:15 - 10:30 AM	10:15 - 10:30 AM	10:15 - 10:30 AM
	Coffee/Tea Break 10:30 AM - 11:45 AM	Coffee/Tea Break 10:30 AM - 11:45 AM	Coffee/Tea Break 10:30 AM - 11:45 AM	Coffee/Tea Break 10:30 AM - 11:45 AM
	Transport processes in reactions catalyzed by solids Jose Luis Valverde	Electrocatalysis Jesus Gonzalez Cobos	Generation of acidity and basicity on catalytic surfaces and their characterization Antonella Gervasini	The concept of circular economy for adsorbent and caalytic materials, an example in the field of air and water evironmental remediation processes evironmental remediation processes Antonella Gervasini
	11:45 AM - 00:30 PM	11:45 AM : 1:00 PM	11:45 AM : 1:00 PM	11:45 AM : 1:00 PM
	FLASH PRESENTATIONS Leonarda Liotta Jorge Rodriguez Navarro Anne Giroir-Fendler	In-situ and operando XPS for interface characterization applied to catalysis and electrochemistry Luis Cardenas	Heavy-Duty vehicles sustainable transport: emissions aftertreatment, sustainability and decarbonization roadmap Eduard lojoiu	Evaluations and Conclusions Anne Giroir-Fendler Jose Luis Valverde
	0:30 PM - 1:30 PM	1:00 PM - 2:00 PM	1:00 PM - 2:00 PM	1:00 PM - 2:00 PM
From 1:30 PM Darwin Building- Room Fontannes	LUNCH BREAK Domus building	LUNCH BREAK DOMUS building	LUNCH BREAK DOMUS building	LUNCH BOX to take away
2:00 - 6:00 PM Theoritical Courses	2:00 - 6:00 PM Practical courses	2:00 - 6:00 PM Practical courses and Flash presentations	2:00 - 6:00 PM Practical courses and Flash presentations	
2:00 - 2:15 PM	Campus ENS Gerland	Campus Lyon Tech La Doua Darwin Building - Room Fontannes	Campus Lyon Tech La Doua Darwin Building - Room Fontannes	
Introduction Anne Giroir-Fendler 2:15 - 3:45 PM Reaction kinetics and chemical reactors Jose Luis Valverde	PRACTICAL 1 Methods of theoretical chemistry Carine Michel Jose Luis Valverde ENS school 46 allee d'Italie, 69007 Lyon	PRACTICAL 2 (90 mn per feam of 10 students) xxxxxxxxxxx a) Research Data Management in Catalysis-related Sciences Michael Liebau Darwin building xxxxxxxxxx b) Visit of Characterisation platform at IRCELYON Leonarda Liotta Luis Cardenas Pretre Building	PRACTICAL 3 Kinetic analysis data Jesus Gonzalez Cobos Jose Luis Valverde Darwin building	
Coffee/Tea Break				
synthesis and Characterization of Metal-Organic Frameworks				
Jorge Rodirguez Navarro		5:00 - 6:00 PM	5:00 - 6:00 PM	
5:30 - 6:00 PM Practical courses and Flash Presentaion Informations Anne Giroir-Fendler		FLASH PRESENTATIONS Luis Cardenas Michael Liebeau Anne Giroir-Fendler	FLASH PRESENTATIONS Antonella Gervasini Jose Luis Valverde Anne Giroir-Fendler	
		8:00 - 11:00 PM		

Social event for all participants Dinner cruise on the Rhone and Saone rivers