

Organization of Lab Exercise at PSI

The lab exercise for the EPFL lecture “Catalysis for emission control and energy processes” will be conducted at the Paul Scherrer Institute, 5232 Villigen PSI on 7 – 8 Jan 2025 and 9 – 10 Jan 2025.

Assignment of students (based on your preferences if communicated):

	Name First Name	Gender	e-Mail	07./08.01.2024	09./10.01.2024
1	Aitken Harry	Male	harry.aitken@epfl.ch	x	
2	Ceccucci Anna-Maria Dominique	Female	anna.ceccucci@epfl.ch	x	
3	Coulibaly Thomas-Emmanuel	Male	thomas-emmanuel.coulibaly@epfl.ch	x	
4	Dela Cruz John Mark Christian	Male	john.delacruz@epfl.ch	x	
5	Dubiel Florian	Male	florian.dubiel@epfl.ch		x
6	Dumond Léo Arthur Alexandre	Male	leo.dumond@epfl.ch		x
7	Dutca Gabriela-Teodora	Female	gabriela-teodora.dutca@epfl.ch		x
8	Ghanem Zahraa Mahmoud Mahmoud	Female	zahraa.ghanem@epfl.ch	x	
9	Gonzalez Villaverde Ana Beatriz	Female	ana.gonzalezvillaverde@epfl.ch	x	
10	Gruson Thomas Noël	Male	thomas.gruson@epfl.ch		x
11	Jaussi Valentine Eva	Female	valentine.jaussi@epfl.ch		x
12	Jenni Nicolas	Male	nicolas.jenni@epfl.ch		x
13	Kronenburg Lotte	Female	lotte.kronenburg@epfl.ch	x	
14	Min Li Tan	Female	minli.tan@epfl.ch		x
15	Pankiv Marko	Male	marko.pankiv@epfl.ch		x
16	Rast Mathilde Camille	Female	mathilde.rast@epfl.ch	x	
17	Rey Doina Damaris	Female	doina.rey@epfl.ch	x	
18	Riaz Muhammad Qasim	Male	muhammad.riaz@epfl.ch		x
19	Saix Louis Antoine Dominique	Male	louis.saix@epfl.ch	x	
20	Vignaux Niels Bernard	Male	niels.vignaux@epfl.ch	x	
21	Villatte Tom Valentin	Male	tom.villatte@epfl.ch		x
22	Zergot Fatima Wissale	Female	fatima.zergot@epfl.ch		x

Your exercise starts on 7 Jan 2025 or 9 Jan 2025, at 11:00 each, at PSI. Please carpool or use public transport to minimize the ecologic footprint of the trip.

Please come on your starting date at 10:51 to PSI’s main entrance directly at the bus station “PSI Ost” (Bus 376 from Brugg stops at “PSI Ost” at 10:51). The lecture assistants Marie-Gabrielle Ameres, John D’Alessandri and Davide Ferri will pick you up, provide badges and guide you through the exercise.

The exercise is structured in three experiments, and you will conduct them all. For this purpose, the students will be split into three small sub-groups (A, B and C), who will each start with another experiment (SCR, Methanation, DRIFTS). **Please, bring a labcoat and if possible, goggles.**

Please find the experimental plan below:

Group A

Day 1

SCR: 11:00 - 12:00 and 13:00 -16:45
Methanation: 16:45 – 18:00

Day 2

Methanation: 08:30 – 12:00
DRIFTS: 13:00 – 17:00

Group B

Day 1

DRIFTS: 11:00 – 12:00 and 13:00 – 16:45

SCR: 16:45 – 18:00

Day 2

SCR: 08:30 – 12:00

Methanation: 13:00 – 17:30

Group C

Day 1

Methanation: 11:00 – 12:00 and 13:00 – 16:45

Day 2

DRIFTS: 08:30 – 12:00

SCR: 13:00 – 17:30

The time for conducting the experiments, the evaluation and the small reports is calculated such that the exercise can be completed during the working hours. You can work in the groups as team on the data analysis and the answers to the questions, but it is expected that a) each student contributes and that b) each student delivers an individual report for the three experiments to maximize the learning experience. “Report” means that you evaluate the experimental data, plot them and provide answer to the questions. Please send your report until 17 Jan 2025 in electronic form (pdf file format) to the lecture assistants. For writing the report, the room OHSA/B17 is reserved for you during your stay at PSI.

The lab exercise contributes 1 credit point to this lecture (overall 3 credit points: 2 lecture + 1 lab exercise). The grade for the report contributes 25% to the overall grade for the course. The written exam contributes 75%.

There are double bed rooms reserved for one nights for all students in the Guest House of PSI (paid by PSI), except for PhD students working at PSI. Information about the Guest House (directions, office hours, etc.) can be found here: <https://www.psi.ch/en/guesthouse>. Please note that PSI is located at a remote place with limited catering options and leisure opportunities, i.e. you better plan your evening beforehand. You can walk from “PSI Ost” over the river Aare to reach the Guest House within 10 min. Or you can take the bus from “PSI Ost” to “PSI West” and walk 3 min to reach the Guest House. If you travel by car, please note that there is a sufficient number of parking lots available. Food and beverages are available at cafeteria Time In (sandwiches, soupe, simple salads and simple warm plates) and in the cantina OASE. Microwaves are available.

If you have any question or problem, please contact:

Prof. Dr. Oliver Kröcher, oliver.kroecher@psi.ch, Tel 056 310 20 66 or

Dr. Davide Ferri, davide.ferri@psi.ch, Tel 056 310 27 81