

Univerza
v Ljubljani

Fakulteta *za kemijo*
in kemijsko tehnologijo

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VABILO NA PREDAVANJE / INVITATION TO THE LECTURE

Dr. Pascal Miéville

executive director Swiss CAT+ West Hub

Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland

z naslovom / title:

**Selected challenges on the way to full
automation of a chemistry lab**

**v sredo, 24. 1. 2024 ob 14. uri /
on Wednesday, 24. 1. 2024 at 14.00**

**v predavalnici 2 v 1. nadstropju Fakultete za kemijo in
kemijsko tehnologijo, Večna pot 113 / in lecture room
2, 1st floor at the Faculty of Chemistry and Chemical
Technology, Večna pot 113**

Vljudno vabljeni! | Kindly invited!

Abstract:

Developing an entirely new automated and data-driven laboratory for the discovery and optimization of homogeneous catalysts from scratch is a major challenge. But it's also a rare opportunity. This is what we have been doing at Swiss CAT+ at EPFL for more than three years. In this talk, we will describe the design process of such an infrastructure and place this analysis in the context of the current massive evolution of digital chemistry. We will then discuss in more detail some of the major theoretical, algorithmic, and technical challenges we have faced and continue to work on. Finally, we will present some of the prospects for the development of this national research infrastructure and about potential collaborations.