RÉPUBLIQUE FRANÇAISE
Liberté Égalité Fraternité

INSTITUT FRANÇAIS

BENOÎT LOUIS

From France to Sweden

Project: **Zeolite and acid catalysis**

Research topic: **Chemistry**

Swedish Institution: **Luleå University**

French Institution: **University of Strasbourg**

Dates of mobility: **20/11/2017** to **23/11/2017**

Program: **SFVE-A (ex-TOR)**

PRESENTATION

Benoît Louis is a Research Director at the Institute of Chemical Processes for Environment, Energy and Health (ECPEES) at the University of Strasbourg. Prior to that, he was a CNRS Research Fellow at the Institute of Chemistry. His interests have varied from the rational design of zeolite catalysts doped with transition metals, to the development of new methodologies to synthesise zeolites with tailored properties for acid catalysis purposes. He obtained his PhD in Chemical Reaction Engineering and Catalysis from the École Polytechnique Fédérale de Lausanne (EPFL) in 2002.

ACTIVITIES IN SWEDEN

Benoît Louis spent his mobility at Luleå University (LTU) and in Piteå at the RISE-SP (previously ETC) Research Center, where he held a presentation on zeolite and acid catalysis. He met Olov Öhrmann and other researchers from the ETC with whom he discussed Fluid Catalytic Cracking (FCC) and visited the laboratories and the unit for the demonstration of the production of dimethyl ether (DME). He was particularly impressed by the valorisation and utilization of biomass for energy purposes, which he related to his expertise in zeolite synthesis. A potential collaboration with Dr. Öhrmann was envisaged.

At LTU, he met with Johanne Mouzon and discussed European H2020 research projects, held a seminar and visited the laboratory focused on industrial chemistry accompanied by his and students. They discussed a potential collaboration to combine Louis's expertise on zeolite growth producing crystals of varying morphologies and biomass valorisation. He also had the chance to meet with Jonas Hedlund, who presented the advanced activities of his research group on real fluxes of diverse molecules and with whom he planned a European collaboration.