



## AWARDS AND ACCOLADES IN 2022

Several awards and accolades were awarded to IFPEN researchers in 2022. A special mention should be made for the ERC Synergy grant awarded to [Benoît Noetinger](#).



**Martina Torelli**, doctoral student at IFPEN (2018-2021), won the [2022 IFPEN Thesis Award](#) (Yves Chauvin Prize) for her thesis « Modelling Microbial Methane Processes in Marine Environments: from Source to Seep. Insights from Basin Analysis ». Each year, this award singles out a student pursuing doctoral studies at IFPEN for the excellence and novel nature of their research work.



**Bassel Othman**, doctoral student at IFPEN (2018-2021) and a control engineer there since 2022, received the [Sanef Abertis France Chair Award](#), in the Transport Infrastructure Management category, for his thesis « Variable speed limits and access control in an urban road network for better environmental sustainability ».



**Hélène Olivier-Bourbigou** was presented with the first-edition [Codron-Fautz Award by the French Institute \(Institut de France\)](#). Created in 2021, this annual award recognises a researcher who has carried out remarkable work in the field of science applied to technology, upon proposal of the Academy of Science (Académie des sciences)



**Loïc Dumortier**, doctoral student at IFPEN since 2021, won the [ParAMS ReaxFF parametrization challenge](#), organised by SCM (Software for chemistry and materials), to minimise errors in test data following optimisation of the parameters of a ReaxFF (reactive forcefield) on the back of a set of findings.



**Alexandre Battiston**, an engineer in the Systems and Mobilities unit, received, at the 24th conference on power electronics and its applications ([EPE 2022 ECCE Europe](#)), an award for the development of high-power, high-voltage silicon carbide inverters.



**Beatriz Pereira Barata**, doctoral student at IFPEN since 2021, won, for her poster presented at the 33rd European Crystallographic Meeting (ECM33), [The Cambridge Crystallographic Data Centre \(CCDC\) award in chemical crystallography, including advances in instrumental, experimental or computational techniques](#).



**Thomas Pigeon**, IFPEN doctoral student since 2020, received a prize for the best poster at the 18th edition of [ICTAC](#) (International Conference on Theoretical Aspects of Catalysis). His thesis work focuses on the implementation of an innovative method for the sampling of rare chemical events occurring in heterogeneous catalysis..



**Bertrand Guichard**, research engineer at IFPEN, received the [Innovation 2022 prize](#) from the catalysis division of the Société Chimique de France for his work which led to the development of high-performance catalysts in the field of refining as well as for his study of the catalyst behavior of innovative formulations for the production of fuels and biofuels by coprocessing.



**Elsy El Hayek**, doctoral student at IFPEN (2017-2020), was awarded the 2022 Denise Barthomeuf Thesis Prize for her work on "[New acid zeolites obtained from silicogermanates](#)" during the annual meeting of the [French Zeolite Group](#). Each year, this prize is awarded for thesis work involving zeolite-type porous materials.



**Wassim Ammar**, doctoral student at IFPEN (2019-2022), was awarded, during the 11th Conference of the [Association Française de l'Adsorption](#) (French Adsorption Association), the prize for best oral presentation for a speech about the separation of second-generation sugars using zeolites.



**Julien Petit**, doctoral student at IFPEN (2018-2021), received from the Coordination Chemistry division of the Société Chimique de France [the 2021 Thesis Prize](#) for his work on "Exploration of a new reactivity in ethylene oligomerization: towards new dicationic nickel complexes".



**Vinith Kumar Lakshmanan**, research engineer at IFPEN, was the recipient, during his PhD thesis at IFPEN (2019-2022), of the [Young Author Award](#) which was presented at the 2022 International Federation of Automatic Control ACC Conference.



[Benoît Noetinger](#) is the winner, along with three other researchers, of a

prestigious [ERC synergy Grant grant for the KARST fundamental research project](#). This project combines expertise in hydrogeology, network theory, statistical flow physics and fluid transport in random environments to gain an understanding of the response of these extremely heterogeneous multi-scale systems to climate change. KARST aims to improve predictions of karst systems' responses to extreme weather events that can pose a significant hazard to the populations concerned. It then aims to shed more light on the way in which they are formed.

The combination of the approaches and skills of the 4 co-leaders makes the originality of this project, which won the jury over following a very selective call for entrants.

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