



Yale University and Demeta's GreenCARE LabCom team up to develop breakthrough and green alternatives to ozonolysis

Rennes, February 19th, 2019 - DEMETA, leader in the development of new generation catalysts for green chemistry, announces a collaboration agreement with Yale University

GreenCARE LabCom is a joint R&D laboratory between DEMETA and the Université de Rennes 1 (France), whose objective is the development of novel catalytic technologies as alternative to ozonolysis, a dangerous and expensive process used in the chemical industry. GreenCARE technologies are based on abundant and non-toxic polymetallic catalysts, benign oxidants, as well as low pressure and low temperature processes. After 15 months of development, several patent applications have already been filed, which demonstrates the uniqueness of this technology.

Demeta and the Université de Rennes 1 have decided to open their partnership to the Center for Green Chemistry and Green Engineering at Yale (USA), led by Prof. Paul T. Anastas. This collaboration will broaden the possible applications of the GreenCARE technologies to biobased substrates produced from lignin, a natural polymer, through a process developed by the group of Prof. Paul T. Anastas. The aim of this collaborative research is to combine the technologies of both groups to produce chemicals of industrial importance, such as monomers and dyes, including 100% biobased carbon. This partnership will involve exchanges of PhD students to make research works in both laboratories.

"In 2016, Vincent Escande spent 12 months at Yale in our laboratory," said Prof. Paul T. Anastas. "It is with pleasure that we resume our partnership to pursue our work around the cleavage of diols and alkenes, and to develop lignin-based chemicals".

"Initial business discussions confirmed the potential of our cleavage technology and the strong market interest for a safe alternative to ozonolysis", continues Patrick Piot, Chief Executive Officer at Demeta. "It will be highly beneficial to Demeta and the Université de Rennes 1 to partner with the group of Prof. Paul T. Anastas, benefiting greatly from their experience, enabling us to test our catalysts on novel and interesting substrates".

This collaboration is set up for a period of at least two years, with co-ownership of expected joint inventions by the three partners.

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About the Center for Green Chemistry and Green Engineering at Yale University :



The Center for Green Chemistry and Green Engineering at Yale is committed to improving the world today and for future generations through outstanding research and scholarship, education, and practice by providing practical, innovative solutions to sustainability challenges while simultaneously meeting social, economic, and environmental goals. <https://greenchemistry.yale.edu>



About DEMETA :

DEMETA S.A.S develops new generation catalysts for green chemistry. With its first technology platform (metathesis of olefins), DEMETA markets a high-performance material, NexTene™, with a commercial focus in three priority markets: large complex parts, oil and gas, composite materials. With its second technological platform (polymetallic catalysis), DEMETA develops technologies for the oxidative cleavage of alkenes for the production of precursors of polyesters or polyamides, specialty ester derivatives, pharmaceutical intermediates, flavors and perfumes, etc. Since its creation in 2011, DEMETA is supported by Truffle Capital and BPI France.



About the Université de Rennes 1 :

The Université de Rennes 1 ranks amongst the twelve main universities in France. It has four main research sectors: Mathematics and Information and Communication Sciences & Technologies, Life and Health Sciences, Material Sciences, Humanities and Social Sciences. Our scientific collaborations include 17 International Associated Laboratories and International Research Groups in association with the National Centre for Scientific Research (CNRS) or the French National Institute of Health and Medical Research (Inserm). The Université de Rennes 1 represents 29,000 students, 3,700 employees, 32 research units associated with national research centres, and more than 250 PhD degrees awarded every year.



The Institute of Chemical Sciences of Rennes, a joint Research Unit of which the Université de Rennes 1 and CNRS are two of the stakeholders, is one of the flagship units in France in the field of chemistry thanks to its size, its scientific & contractual activity and its international reputation. This is reflected in its presence in many famous international rankings. The *Organometallics: Materials and Catalysis* team is at the heart of this research unit and the catalysis in Rennes has a strong international visibility.



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Contacts:

DEMETA : Ralph HEDEL, Chief Commercial Officer - ralph.hedel@demeta-solutions.com

Université de Rennes 1 : Julien LE BONHEUR, scientific communications – julien.le-bonheur@univ-rennes1.fr

Yale University : Dr Karolina Mellor, Program Manager, karolina.mellor@yale.edu