



Indo-French Seminar on Catalysis for Sustainability

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Pierre H. Dixneuf, Professor of organometallic chemistry at the University of Rennes started to create a Catalysis group in 1985. He successively developed selective catalytic transformations of alkynes, incorporation of CO₂, ruthenium-vinylidenes and -allenylidenes in catalysis, enantioselective hydrogenation for industry with chiral Ru catalysts, new alkene metathesis catalysts for the transformation of plant oil derivatives. He is now contributing since 2007 to catalytic C–H bond activation/functionalization, even in water, via sustainable processes, using mostly Ru(II) and Rh(I) catalysts and recently for the modification of polypyridines, heterocycles and phosphine ligands for the improvement of catalysts.

He has co-authored 480 publications and reviews, 120 dealing with Green C–H bond modifications, and co-edited 7 books. He received international prizes from Germany,

Italy, Spain, Portugal, China, Taiwan, India, and from French académie des sciences. He has developed cooperation with India : Coorganized 2 bilateral Cefipa symposia, in 2014 and 2015, given 2 master courses in 2016 & 2019, received 3 awards from India : B. D. Tilak lectureship from NCL Pune 2014, first Asima Chatterjee International award, Calcutta 2020, and National Academy Sciences India membership 2020. He has 17 publications with Indian students and researchers. After his work as Scientific Deputy Director of CNRS Chemistry in Paris (1996-1999), he founded the CNRS-UR1 research Institut de chimie de Rennes in 2000 and was university of Rennes vice-president for research (2001-2004).