

# Research Cooperations

## Team and Rennes cooperation

Fruitful cooperations within the Catalysis and Organometallics laboratory of the "Institut Sciences Chimiques de Rennes" UMR 6226 CNRS-Université de Rennes, with:

**Prof Christian Bruneau**, from alkyne activation, alkene metathesis to C-H bond activation

**Dr Sylvie Dérien**, Associate professor (catalysis and fine chemistry with ruthenium catalysts)

**Dr Cédric Fischmeister**, IR CNRS (alkene metathesis and catalysis)

**Prof Christophe Darcel**, (C-H bond activation with Ruthenium) with Prof Li Bin Wuyi University, Guangzhou province, China

**Prof Henri Doucet**, DR CNRS (C- H bond activation with Palladium)

**Dr Jean-François Soulé** CR CNRS ( Phosphine & Nitrogen ligands catalytic C-H bond functionalization with Rh and Ru based catalysts)

## Main Recent international cooperations

**Bekir Cetinkaya**, University of Izmir, and **Ismail Özdemir**, University of Malatya (Turkey) Metal-NHCcarbenes and catalysis, (CNRS-TUBITAK/COST Actions) (*15 publications*)

**Serguei N. Osipov**, INEOS, Moscow (Russia), INTAS Programme, PICS CNRS and GDRE CNRS Moscow Academy of Sciences (*19 Publications*) **Matthias Beller** LIKAT Rostock for new catalytic systems and green catalysis (*7 publications*)

European Network IDECAT, Beller-Bruneau LIA CNRS-Leibniz Institute Rennes-Rostock

**XiaoFeng Wu** LIKAT Rostock Germany new catalytic processes involving radicals. LIA CNRS-Leibniz institute (*8 publications*)

**Min Zhang** South China University of Technology SCUT, Canton, Guangdong, China (*6 publications*)

## Main cooperations for kinetics and Theory

**Anny Jutand**, ENS Ulm Paris, For kinetics, electrochemistry and catalysis mechanisms

**Odile Eisenstein**, **Eric Clot**, Montpellier (France) Theoretical studies of catalytic mechanism

**Carlo Mealli** CNR Florence (Italy) Computational studies of Organometallic reactions

**Feliu Maseras** ICIQ, Tarragona and Universidad de Barcelona (Spain) Computational studies of catalytic cycles for C-H bond activation

**Past International cooperations** Fruitful cooperations have led to many publications

• **Zuowei Xie**, Chinese University of Hong Kong (*4 publications*)

Carborane ruthenium complexes and catalysts, (PROCORE)

• **Irina P Beletskaya**, Lomonosov university Moscou Phosphine addition to alkynes CNRS-Lomonosov University+ INTAS programme

• **Claudio Bianchini**, CNR Florence: "activation of small molecules" European HCM network

• **Alois Fürstner** indenylidene-Ru catalysts for alkene metathesis (*3 publications*)

• **Peter W. Fehlhammer**, Freie Universität Berlin on Carbenes within Humboldt cooperation (*2 publications*)

• **Armin de Meijere**, University of Goettingen *activation of cyclopropylalkynes* (*2 publications*)

• **Arthur J. Carty** university of Waterloo Activation by bimetallic systems (*17 publications*)