



CYCLE DE CONFÉRENCES DE CHIMIE

Avec le concours de : **Manufacture Française des Pneumatiques MICHELIN**
Sigma Clermont
Institut de Chimie de Clermont-Ferrand (ICCF UMR 6296)
U.F.R. S.T. Département de Chimie

Jeudi 15 juin à 16 h

Salle C

Eric LEROY

Laboratoire de Génie des Procédés-Environnement-Agroalimentaire (GEPEA)
UMR 6144, Nantes

Natural polymers based materials: Ionic Liquids as processing aids and functional additives

The recent concerns for carbon management (including fossil fuels use and CO₂ emissions) have drawn attention on biobased plastics, including natural polymers. When compared to petroleum based plastics, these polymers obtained from plants are generally considered as relatively weak, with low mechanical performances and more complex processability, due to water sensitivity and/or low thermal stability. Nevertheless, this current objective of replacing petroleum based commodity plastics may hide other opportunities for the use of natural polymers as structural and/or functional materials in applications that would take advantage of their specific properties. This approach will be illustrated by different examples of our recent research involving the use of Ionic liquids as processing aids and/or functional additives.

Eric Leroy joined CNRS in 2008. He studied materials engineering and science at the National Institute of Applied Sciences (INSA) of Lyon. After obtaining a PhD in polymers and composite materials in 2000, he worked as a contracted researcher at the Donostia International Physics Center in San Sebastian, Spain, before joining the Alès School of Mines, France, as an assistant professor from 2002 to 2007. He received the CNRS Bronze medal in 2013.

Coordinatrices : Katia GUERIN, ☎ 33 473 407 567 courriel : katia.araujo_da_silva@uca.fr
Pascale HUSSON ☎ 33 473 407 193 courriel : pascale.husson@uca.fr
Institut de Chimie de Clermont-Ferrand (ICCF-UMR 6296)

Université Clermont Auvergne, 24, avenue Blaise Pascal, TSA 80026 63178 AUBIERE cedex-France