

COXAM - Jean Yves

Jean-Yves Coxam is assistant professor at UCA (Université Clermont Auvergne) and researcher At the ICCF (Institut de Chimie de Clermont-Ferrand). The institute brings together different research teams including TIM (Thermodynamics and Molecular Interactions) where Jean Yves Coxam develops his work. His research focuses mainly on the physical and chemical absorption of gases in a liquid solvent.

Jean Yves Coxam obtained his Ph.D. in Physical-Chemistry at the University Clermont II in 1988, with the development of a calorimetric technique for thermodynamic studies of electrolyte solutions at high temperatures and high pressures. He spent a year in 1992 at the BYU (Brigham Young University, UTAH, USA) in the Chemical Engineering Department, studying the solubility of natural gas in hydrocarbons. Jean Yves Coxam obtained a lecturer position at UCA in 1989 and joined the Thermodynamics and Chemical Kinetics laboratory of Professor J.P Grolier. His teaching activities focus on thermodynamics and chemical equilibrium in solutions. His research activities are in the field of thermodynamics of gas-liquid phase equilibria. His research projects deal with the capture of acid gases and as their storage in saline aquifers. He specializes in the calorimetric techniques for the measurement of the enthalpies of mixing by flow calorimetry and in the thermodynamic modeling of phase equilibria.

Jean Yves Coxam is co-author of 56 publications in peer review international scientific journals). He is also co-author of 6 book chapters in the topic of CO₂ capture.