

## **Jean Francoise Moyen**

Université Jean-Monnet, Laboratoire Magmas et Volcans,  
UCA-CNRS-IRD, Aubière, France

### **“Granites and the nature of Variscan crust”**

The Variscan crust of Europe lacks a dense, mafic lower crust. Direct (xenoliths) and indirect (geophysical) evidence suggest that it is largely composed of metasediments and granites, with the lower crust being made of restite from the melting of metasediments. The granites of the Variscan Belt include rare arc granites, but large volumes of (i) rocks formed by melting of metasediments and (ii) potassic granitoids reflecting the implication of a mantle source heavily contaminated by crustal recycling. Both the granite association, and the resulting crustal structure, strongly differ from the more conventional arc crust. One may speculate on the worldwide importance of both type of systems, and how this impacts our global estimates on crust composition and evolution.