



Alain Weisbrod **(1936–2005)**

Professor Alain Weisbrod sadly died on October 18, 2005 after a long illness. He taught at the School of Geology (ENSG) and carried out research at the Centre de Recherches Pétrographiques et Géochimiques (CNRS) in Nancy.

After defending a doctoral thesis in 1970 on metamorphism in the Cévennes (France), he founded, together with Bernard Poty and Jacques Touret, a research team focused on the equilibrium between fluids and minerals. He spent one year at the Geophysical Laboratory (Carnegie Institute of Washington) to study the influence of water and manganese on the garnet–cordierite equilibrium. He calibrated experimentally the K/Na geothermometer for fluids in equilibrium with alkali feldspars. His scientific interests also included fluid immiscibility and fluid mixing during the formation of ore deposits based on fluid inclusion studies; alpine metamorphism; oceanic hydrothermal metamorphism; boron geochemistry in hydrothermal fluids; and tin, tungsten and porphyry copper deposits.

Alain Weisbrod combined field work, the acquisition of analytical and experimental data, and thermodynamic modelling. He was among the first to introduce thermodynamics in the Earth sciences through his book *Basic Thermodynamics for Mineralogists and Geologists*, which was first published in French in 1963 and subsequently translated into Russian in 1966 and English in 1967. He introduced many Earth scientists to this approach, which was very new at the time.

Jean Dubessy