

Jean ROUQUEROL

Emeritus Research Director of the Centre National de la Recherche Scientifique (CNRS)

Address : Laboratoire MADIREL, Aix-Marseille Université, St Jérôme Campus, Marseille, FRANCE



Research interests

1) In Calorimetry:

- a) **gas adsorption microcalorimetry**, especially at 77 or 87 K, for which he developed the only calorimeter able to carry out these experiments to-day
- b) **immersion microcalorimetry**, which he developed as a unique method to determine the microporous area of carbons, which cannot be assessed by the BET method
- c) **liquid adsorption microcalorimetry**, especially adsorption of surfactants and polymers

- 2) **In Thermal Analysis**, devised and carried out, in the early sixties, the first experiments of **Sample-Controlled Thermal Analysis (SCTA)**, an approach which is now available in all commercial thermobalances and which is most powerful in kinetics, in material preparation and in enhancing the resolution of the thermal analysis

Positions and commitments

- **President of the French Association for Calorimetry and Thermal Analysis (AFCAT)** (1985-1989)
- **Director of the CNRS Center for Thermodynamics and Microcalorimetry** (1990-2002) founded by Prof. E.Calvet in 1959 and then the “cradle” of heat-flowmeter microcalorimetry
- **Chairman of the IUPAC Commission I-6 (Colloid and Surface Chemistry including Catalysis)** (1991 to 1994)
- **President of ICTAC, the International Confederation of Thermal Analysis and Calorimetry** (2000-2006)

Scientific production

ca. 200 published papers, 85 invited lectures in international conferences, 10 books edited or co-authored,

Awards and distinctions

Was given various awards in **France** (from the Société Chimique de France and from the CNRS), in **Italy** (Setaram Award of the the Italian Association of Calorimetry and Thermal Analysis (AICAT)), in the **US** (Mettler Award of the North American Thermal Analysis Society (NATAS) in **Spain** (Doctor Honoris Causa of UNED in Madrid) and in **Hungary** (Scientific Excellence Award of the Journal of Thermal Analysis and Calorimetry (JTAC)).

Lifetime Honorary Membership and Distinguished Service Award of **ICTAC**