



Professor Olivier LACOMBE
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Prof. Lacombe holds the 'Agrégation de Sciences Naturelles' with specialty in Geology (1988) and a PhD in Earth Sciences from the UPMC, Paris (1992). In 1994, he obtained a permanent research position as assistant professor in the UPMC, and got his 'Habilitation à Diriger des Recherches' in 2000. Since 2002, he has a full professor position in the Department of Tectonics, then in ISTeP.

Prof. Lacombe has been leader of the 'Déformations, Sismotectonique, Imagerie, Relief' ('DESIR') research team of ISTeP and head of ISTeP.

Prof. Lacombe is a specialist in structural geology and tectonics. His research focuses on various topics:

- Reconstruction of paleostress orientations and magnitudes in orogenic settings (from the fold scale to the entire fold belt scale) using combined analysis of calcite twins, faults and fractures, and stylolites;
- Structural and kinematic evolution of fold-thrust belts (Taiwan, Alps, Pyrenees-Provence, Zagros, Rockies, Apennines), with emphasis on regional tectonic evolution, fracture pattern, geometry and kinematics of thrust/fold structures, timing of deformation and exhumation, transverse structures and along-strike belt segmentation, basement-involvement in shortening;
- Ductile to brittle transition during exhumation of HP metamorphic rocks (Alps, Aegean) and kinematics and mechanics of low-angle normal faults ('detachments');
- Mechanisms of deformation, paleo-stress/strain and pore fluid (over)pressures in folded strata, fluid-rock-tectonics interactions in sedimentary basins and fold-and-thrust belts (Albania, Iran, Alps, Rockies, Apennines).

To date, Prof. Lacombe has published ~ 130 articles in tectonics and geodynamics in peer-reviewed international journals or in books. He has supervised 17 PhD and 23 Master theses. He has given many invited conferences, especially in Europe and in Taiwan. He has been convener of 2 international meetings held in France in 2005 ('*Thrust belts and foreland basins*') and 2011 ('*Faults : Why ? Where ? How ?*') and of 25 sessions in EGU (2010-2024) on fold-and-thrust belts, folding, (paleo)stress, and fluid-rock-tectonics interactions. He has edited a book of the series 'Frontiers in Earth Sciences' (Springer): '*Thrust belts and foreland basins : from fold kinematics to hydrocarbon systems*' (2007). He has also been Guest Editor of 11 special issues: '*Geodynamic evolution of the Zagros*' (GeolMag 2011), '*Into the deformation history of folded rocks*' (Tecton. 2012), '*Faults, stresses and mechanics of the upper crust*' (BSGF 2013), '*Fluid-rock-tectonics interactions in basins and orogens*' (Mar.Pet.Geol. 2014), '*Tectonic evolution and mechanics of basement-involved fold-and-thrust belts*' (GeolMag 2016), '*Fluids in faulted and fractured upper crustal rocks*' (Tecton. 2016), '*Fluids in crustal deformation: fluid flow, fluid-rock interactions, rheology, melting and resources*' (J.Geod 2016), '*Style of deformation and tectono-sedimentary evolution of fold-and-thrust belts and foreland basins: from nature to models*' (Tecton. 2019), '*Calcite deformation twins : from crystal plasticity to applications in Geosciences*' (Geosciences 2022), '*Orogen lifecycle: learnings and perspectives from Pyrenees, Western Mediterranean and analogues*' (BSGF 2022), '*Faults and fractures in rocks: mechanics, occurrence, dating, stress history and fluid flow*' (GeolMag 2022).

Prof. Lacombe is currently Editor of *Geological Magazine*, Associate Editor of *Tectonics* and Editor-in-Chief of the Tectonics and Structural Geology Section of *Geosciences*, and has been Editor-in-Chief of the BSGF - *Bulletin de la Société Géologique de France*; he has been reviewer for most international journals in Earth Sciences. He has been member of the programme committee of the Tectonics and Structural Geology Division of EGU.

In addition to numerous administrative tasks in his university, Prof. Lacombe has been member of the section 18 of the Comité National de la Recherche Scientifique (CoNRS) during 8 years and is an expert for the Agence Nationale de la Recherche (ANR), the Agence d'Evaluation de la Recherche et de l'Enseignement Supérieur (AERES), the Institut National des Sciences de l'Univers (INSU) as well as for several international programs and universities (Canada, Belgium, Germany, Greece, UK). He has been president of the french committee of the International Lithosphere Program (ILP).

Most Prof. Lacombe's teaching includes lectures in structural geology, tectonics and geodynamics for Master students in Earth Sciences. His teaching activities also include conferences and fieldtrips.