Basins, Reservoirs, Resources

Aims and issues addressed

Improve understanding of fluid deformation and circulation in sedimentary basins. Enhance predictivity for reservoirs at various levels (oil, geothermal, etc.).

Clarify the role of faults and joints in fluid circulation and understand the link between deformation schedules and circulation phases of fluids.

Expertise

- Petrology of minerals and organic matter
- Sedimentology (facies, processes)
- Low-degree metamorphism (clays, mineralization)
- Stratigraphy (basins, margins)

- Structural geology (fracturing, circulation)
- Paleontology
- Modeling of fluid circulation
- Seismic interpretation

Missions

- Characterization of fracturing in Death Valley (USA)
- Orogenic wedges in foreland (Spanish Pyrenees) and forearc (Hikurangi, New Zealand) basins
Technical resources

Geoscience research facility (UniLaSalle):
XRD, SEM and EDS detector, absorption spectroscopy, motorized stage microscope, thin section laboratory, Geolab

Analytical facility (UPJV):
TEM, microscope with atom detection (NTEGRA)

Manager / Contact

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Link to the site:
https://www.unilasalle.fr/recherche/recherche-service-de-nos-ambitions/b2r/

The unit

8 Associate Professors
3 Lecturers
1 Technicien
1 Post-doctoral fellow
3 Doctoral students
5 Associate professors

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