



## DR. CLAUDIO DELLE PIANE

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INVITED BY

## GEC LABORATORY GEOSCIENCES AND ENVIRONMENT CERGY

Currently, he is a scientific researcher working for the Commonwealth Scientific and Industrial Research Organisation - CSIRO Petroleum Perth (Western Australia).

### GENERAL INFORMATION

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- ▮ **RESEARCH DOMAINS:** Evaluation of strength and elastic properties of rocks. Ultrasonic signal processing. Microstructural and textural evaluation of rocks. Integration of geological and petrophysical data. Application of laboratory data to fields situations.
- ▮ **SPECIAL FIELD:** Geology, geomechanics.

### EDUCATION

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- ▮ May 2004 – December 2007. Geological Institute, ETH Zurich, Switzerland.  
Ph.D. Thesis: “Experimental deformation of carbonate rocks to large shear strains” defended on December, the 19th 2007.  
Ph.D. student under the supervision of Dr. L. Burlini, Dr. K. Kunze and Prof. J. Pierre Burg.
- ▮ 10/12/2003 Università Roma Tre. Rome, Italy.  
Five year degree in Geosciences (MSc.), with final mark of 110/110.  
Final project title: “Negative inversion tectonics in the Gulf of Corinth, Greece: structural interpretation of the AG10 well and analogue modelling.” Referees: Prof. C. Faccenna; Dr. J.M. Daniel.
- ▮ January 2001 – June 2001. University of Leeds, Leeds LS29JT England.  
Exchange Student supported by the Erasmus scholarship (European Commission Education & Training).

### LAST PUBLICATIONS

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- ▮ **C. Delle Piane**, C. Madonna, J. Sarout, E. H. Saenger, D. Dewhurst, M. Raven. Frequency-dependent seismic attenuation in shales: Experimental results and theoretical analysis. Submitted to Geophysical Prospecting.
- ▮ M. Josh, L. Esteban, **C. Delle Piane**, J. Sarout, D.N. Dewhurst & M.B. Clennell. 2012. Laboratory Characterisation of Shale Properties. *Journal of Petroleum Science and Engineering*, 88–89, 107-124.
- ▮ **C. Delle Piane**, D.N. Dewhurst, A.F. Siggins, M. Raven. 2011. Stress-Induced Anisotropy in Brine Saturated Shale. *Geophysical Journal International*, 184 (vol.2), 897-906.
- ▮ C.J.L. Wilson, L. Evans, **C. Delle Piane**. 2009. Modelling of porphyroclasts in simple shear: contrasting orientations, viscosities and the evolution of mica fish. *Journal of Structural Geology*, 31, 1350-1364.
- ▮ **C. Delle Piane**, C. Wilson, L. Burlini. 2009. Dilatant plasticity in high-strain experiments on calcite-muscovite aggregates. *Journal of Structural Geology*, 31, 1084-1099.
- ▮ **C. Delle Piane**, L. Burlini, K. Kunze. 2009. The influence of dolomite on the plastic flow of calcite. *Rheological, microstructural and chemical evolution during large strain torsion experiments. Tectonophysics*, 467, 145-166.