

CURRICULUM VITAE OF THE FRENCH COORDINATOR

YVES GUGLIELMI

Born 1965/05/03 in Antibes (Alpes-Maritimes, France)
Assistant professor at Geosciences Azur Laboratory (UMR 6526)

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EDUCATION :

Doctor of hydrogeology at the University of Avignon (France, 84), 1993
Military service, 1990
Master thesis on the hydrogeological context of the Malpasset dam site (France), 1989
Master of applied geology, (Bordeaux III University), 1988

RESEARCH INTERESTS :

Hydromechanical and hydrochemical couplings at different scales of the earth crust
Hydrogeology of mountainous rock slopes and landslides hydrogeology :
In situ analysis of deep seated gravitational slope deformations like large landslides triggering, long time evolutions and short time evolutions linked with earthquakes or meteorological events, fluids in seismically active fault zones.

TEACHING :

Teaching to undergraduate and graduates students (200 hours per year) : geology (cartography and fracturation analyses), hydrogeology (hydrogeology bases, pollution and depollution of reservoirs, water chemistry, water resources management), flow and transport modeling (with MODFLOW code).

RESEARCH COORDINATION RESPONSABILITIES :

Supervision of 10 PhD students since 1996
2003 – present - Coordinator of the french research natural observatory that is dedicated to the study of large moving rock slopes (The upper Tinee valley observatory) and that is involved in different french (ACI CATNAT) and european programs (RETINA, FORESEIGHT).
2005 – 2006 - Coordinator of the axe1-GIS CURARE program co-funded by several local and national French partners. It is a multi-disciplinary research program that is dedicated to the study of gravitational rock slope deformations. 33 researchers from 10 laboratories involved in the program.
2002 – present - Developed innovative Thermo-Hydro-Mechanical measuring devices in Borehole (coordinator of the High Pulse Poroelasticity Project, HPPP project dedicated to the fundamental in-situ study of fluid – mechanical interactions at the mesoscale in heterogeneous rocks).

FIVE MOST SIGNIFICANT PUBLICATIONS OR PATENTS IN LAST 5 YEARS :

F.CAPPA, Y.GUGLIELMI, V.M.SOUKATCHOFF, J.MUDRY, C.BERTRAND and A.CHARMOILLE – 2004 - Hydrochemical modeling of a large moving rock slope inferred from slope levelling coupled to spring long-term hydrochemical monitoring : example of the La Clapière landslide (Southern Alps, France), Journal of Hydrology, 291, pp. 67-90.

F.CAPPA, Y.GUGLIELMI, P. FENART, V.M.SOUKATCHOFF, A.THORAVAL – 2005 - Hydromechanical interactions in a fractured carbonate reservoir inferred from hydraulic and mechanical measurements, Int. Journ. Rock Mech.and Mining Science, vol.42, p.287-306.

GUGLIELMI Y., CAPPA F. and BINET S. – 2005 – Coupling between hydrogeology and deformation of mountainous rock slopes : insight from La Clapiere area (Southern Alps, France), C.R.Geosciences, in press.

GUNZBURGER Y., MERRIEN-SOUKATCHOFF V., GUGLIELMI Y. – 2005 – Influence of daily surface temperature fluctuations on rock slope stability: case study of the Rochers de Valabres slope (France). Int. Journ. Rock Mech.and Mining Science, vol.42, p.331-349.

F.CAPPA., Y.GUGLIELMI., J.VIRIEUX - 2007 – Stress and fluid transfers in a fault zone due to overpressures in seismogenic crust. (Geophys Res Letters accepted).