

THOMAS BLANC

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Nationality: French
Date of birth: 26/12/1984



ACADEMIC QUALIFICATIONS

December 2011	PhD Caminos Canales y Puertos	ETSI Caminos Canales y Puertos Universidad Politécnica de Madrid
July 2010	Diploma de Estudios Avanzados (DEA) in Geotechnical Engineering	ETSI Caminos Canales y Puertos Universidad Politécnica de Madrid
October 2008	Forest Engineer	Agroparistech – ENGREF (Paris – Francia)
October 2008	Master of Mountain Risk Engineering	Universität für Bodenkultur (Viena - Austria)

PROFESSIONAL EXPERIENCES

August 2009 July 2011	FPU scholar ("Formacion del Personal Universitario")	ETSI Caminos Canales y Puertos Universidad Politécnica de Madrid
September 2008 December 2009	Research Scientist at Fundación Agustín de Betancour	ETSI Caminos Canales y Puertos Universidad Politécnica de Madrid
February 2008 August 2008	Research Scientist	Centro de Estudios y Experimentación de Obras Publicas (CEDEX) - Madrid Ministerio de Fomento

LANGUAGE

Spanish: Excellent ; English: good ; French: Mother tongue ; German: regular

COMPUTER KNOWLEDGE

Pack Office – Fortran 90 – Matlab

Blanc T., Pastor M., A stabilized Fractional Step, Runge Kutta Taylor SPH algorithm for coupled problems in Geomechanics, *Computer Methods in Applied Mechanics and Engineering* (2012), DOI: 10.1016/j.cma.2012.02.006

Blanc T., Pastor M., A stabilized Runge Kutta, Taylor Smoothed Particle Hydrodynamics algorithm for large deformation problems in dynamics, *International Journal for Numerical Methods in Engineering* (2012), 10.1002/nme.4324

Blanc T., Pastor M., 2010, A stabilized Smoothed Particle Hydrodynamics, Taylor-Galerkin algorithm for soil dynamics problems, *International Journal for Numerical and Analytical Methods in Geomechanics* (2011) DOI: 10.1002/nag.1082

Blanc T., Pastor M., Towards SPH modelling of failure problems in Geomechanics: A Fractional Step Taylor- SPH model, *European Journal of Environmental and Civil Engineering*, 15 31-49 SI 10.3166/EJECE.15SI.31-49 2011

Pastor M., Manzanal D., Fernández Merodo J.A., Mira P., **Blanc T.**, Drempevic V., Pastor Elizade M.J., Haddad B., Sánchez M., 2010, From solid to fluidized soils: Diffuse failure mechanisms in geostructures with applications to fast catastrophic landslides, *Granular Matter*, Vol. 12, Number 3, pp. 211-228, ISSN: 1434-7636

Pastor M., **Blanc T.**, Pastor M.J., 2009, A depth integrated viscoplastic model for dilatant saturated cohesive-frictional fluidized mixtures: application to fast catastrophic landslides, *J. Non Newtonian Fluid Dynamics*, Vol. 143, pp. 142-153, ISSN: 0377-0257

Pastor M., **Blanc T.**, Pastor M.J., Sánchez M., Haddad B., Mira P., Fernández Merodo J.A., Herreros I., Drempevic V., 2008, SPH Depth integrated model with pore pressure coupling for fast landslides and related phenomena, Hong Kong Geotechnical Office, ISBN: 978-62-7619-30-7

CONFERENCES

Pastor M., Mira P., Manzanal D., Fernández Merodo J.A., **Blanc T.**, Pastor M.J., Sánchez M., Haddad B., Drempevic V., Presentation of the deliverable 1.7 of the European Project Safeland (FP7): Runout Models, International Conference 'Mountain Risks: Bringing Science to Society', Florencia (Italia), 24 – 26 de Noviembre 2010

Blanc T., Pastor M., Hosting under and postgraduate students for practical research internships: the UPM-CEDEX experience, International workshop: Internship in engineering education assessing their efficiency, Paris (Francia), 21 – 22 de Junio 2010

Blanc T., Pastor M., Numerical simulation of debris flow with the 2D SPH depth integrated model, European Geosciences Union - General Assembly, Viena (Austria), 19 – 24 de Abril 2009