

CURRICULUM VITAE

Dr. Xavier Sánchez-Vila

1. PERSONAL INFORMATION

Name: Sanchez-Vila, Francisco Javier

Degree: PhD in Civil Engineering, M. Sc.

Date of Birth: June 6, 1963

Permanent residence: Sant Antoni Maria Claret, 51, 08025 Barcelona

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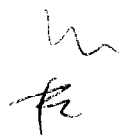
Address at Work: School of Civil Engineering
Dept. of Geotechnical Engineering and Geosciences
Universitat Politècnica de Catalunya – BarcelonaTech
Jordi Girona 1-3, 08034 Barcelona, Spain

2. ACADEMIC DEGREES

- Ph.D. in Civil Engineering, Technical University of Catalonia, July 1995.
- Master of Science, University of California at Berkeley, May 1990. Major: Geotechnical Engineering, May 1990.
- Civil Engineer, Technical University of Catalonia, major in Geotechnics and major in Hydraulics and Energetics, October 1987.

3.- RESEARCH AND TEACHING POSITIONS

- Associate Professor at the Department of Geotechnical Engineering and Geosciences, Civil Engineering School, UPC, since January 1998
- Director of the International Subsurface Hydrology Course (Curso Internacional de Hidrologia Subterranea). Fundacion Curso Internacional Hidrologia Subterranea, since January 2007
- Vice Dean of the Civil Engineering School for International Relations, 2001-2004
- Director of the Department of Geotechnical Engineering and Geosciences, Civil Engineering School, UPC, since February 2009



4.- RESEARCH ACTIVITY

Stays Abroad

- 1 -28 February 2011, Center: Politecnico di Milano, Italia. Politécnico di Milano, Department Ingegneria Idraulica, Ambientale e del Rilevamento: Research and teaching
- 1 August – 30 September 2008, Center: University of California, San Diego, Dpt. Of Mechanical and Aerospace Engineering: Research
- 1 – 31 May 2007, Center: Politécnico di Milano, Department Ingegneria Idraulica, Ambientale e del Rilevamento: Research and teaching
- 1 July 2004 – 31 August 2004, Center: Politécnico di Milano, Department Ingegneria Idraulica, Ambientale e del Rilevamento: Research and teaching
- 15 July 2003 – 15 August 2003, Politécnico di Milano, Department Ingegneria Idraulica, Ambientale e del Rilevamento: Research
- 1 August 2000- 31 January 2001, Center: University of California at Berkeley, Dept. Civil and Environmental Engineering: Research
- August 1989 – June 1990, Center: University of California at Berkeley, Dept. Civil and Environmental Engineering: Master of Science.

Principal Investigator in Research Projects (last 10 years)

Title: Estudios de modelización de los parámetros efectivos que controlan el transporte reactivo de solutos

Funding: Enresa Period: 2005-2008

Title: Simulaciones de flujo multifase para el diseño de capas de cobertura y para estudios de evolución de celdas

Funding: ENRESA Period: Julio 2005- Diciembre 2008

Title: Realització del desenvolupament d'eines de interpretació de dades hidroquímiques

Funding: Agència Catalana de l'Aigua Period: November 2007- April 2009

Title: Diseño de una red de control piezométrica en el Vertedero de Maia

Funding: UTE Euroconsult Hídric Andorra La Vella Period: 1 June 2008 - 1 July 2008

Title: Modelación Hidrogeológica del entorno de la instalación de residuos del Cabril

Funding: ENRESA Period: October 2010 – October 2012

Title: Numerical Model Calibrated for predictive purposes of other SAT systems (ALLIANCE)

Funding: Centro Tecnológico del Agua (CETAQUA) Period: Jan 2010 – Sept 2011

Title: Millora del coneixement del procés d'Escarificat al riu Llobregat a la zona de Pallejà a la Vall Baixa (Projecte ESCAR)

Funding: Aigües de Barcelona Period: May 2011- May 2012

Principal Investigator in Grants from Competitive Funds (last 10 years)

Title: Grups de Recerca Consolidats-2005 "Grup d'hidrologia subterrània"

Funding: Generalitat de Catalunya-SGR05-00686 Period: 2005 – 2008

Title: Parámetros deducidos de Ensayos Hidráulicos: ¿realmente lo sabemos todo? (Project PARATODO)

Funding: CICYT CGL2006-10766-HID Period: Octubre 2006 – Septiembre 2009

Title: Riesgo Asociado a la Recarga Artificial de Acuíferos; una visión integrada suelo (RARA-AVIS)

Funding: MICINN CGL200911114 Period: 2009-2012

Title: 2009SGR 1057

Funding: AGAUR Period: Septiembre 2009-Septiembre 2013

Title: Consolidar Ingenio 2010. Assessing and predicting effects on water quantity and quality in Iberian rivers caused by global change (SCARCE)

Funding: MICINN Period: April 2010 – April 2015

Title: *Proyecto GABARDINE*

Funding: *European Union* *Period: 2005-2008*

5.- ARTICLES IN SCIENTIFIC JOURNALS (SCI) Last 10 years

2005

- Sanchez-Vila, X., A. Guadagnini, 2005. Travel time and trajectory moments of conservative solutes in three dimensional heterogeneous porous media under mean uniform flow, *Advances in Water Resources*, 28 (5), 429-439.
- Riva, M., X. Sanchez-Vila, A. Guadagnini, M. De Simoni, M. Willmann, Travel time and trajectory moments of conservative solutes in two-dimensional convergent flows, *Journal of Contaminant Hydrology*
- De Simoni, M., Carrera, J., Sanchez-Vila, X., and Guadagnini, A., 2005. A procedure for the solution of multi-component reactive transport problems, *Water Resour. Res.*, 41, W11410, doi:10.1029/2005WR004056, 2005
- Vázquez-Suñé, E., X. Sánchez-Vila, J. Carrera, 2005. Introductory review of specific factors influencing urban groundwater, an emerging branch of hydrogeology, with reference to Barcelona, Spain. *Hydrogeology Journal* 3 (Junio 2005), pag. 522-533

2006

- Dentz, M., D. Tartakovsky, E. Abarca, A. Guadagnini, X. Sanchez-Vila, J. Carrera 2006. Variable density flow in porous media. *J. Fluid Mech.* (561), 209-235, 2006
- Sánchez-Vila, X., A. Guadagnini, J. Carrera, 2006. Representative hydraulic conductivities in saturated groundwater flow, *Reviews of Geophysics* 44 (3): Art. No. W09415
- Riva, M., X. Sanchez-Vila, A. Guadagnini, M. De Simoni, M. Willmann, 2006. Travel time and trajectory moments of conservative solutes in two-dimensional convergent flows, *Journal of Contaminant Hydrology*, 82 (2006), p. 23-43

2007

- Abarca, E., J. Carrera, X. Sánchez-Vila, M. Dentz, 2007. Anisotropic dispersive Henry problem, *Advances in Water Resources*, 30 (4), pp. 913-926
- Abarca, E., J. Carrera, X. Sánchez-Vila, C.I. Voss, 2007. Quasi-horizontal circulation cells in 3D seawater intrusion, *Journal of Hydrology* (2007) 339, issues 3-4, june 2007, pp. 118-129

- De Simoni,, X. Sanchez, J.Carrera, M. Saaltink, 2007. A mixing ratios-based formulation for multicomponent reactive transport, *Water Resources Research*, 43, W07419
- Sanchez-Vila, X., D. M. Tartakovsky, 2007. Ergodicity of pumping tests, *Water Resources Research* 43 (3). Art. No. W034141 MAR 10 2007
- Sánchez-Vila, X, M. Dentz, L. D. Donado, 2007. Transport-controlled reaction rates under local non-equilibrium conditions. *Geophysical Research Letters*, Vol. 34, L10404, 2007
- Willmann, M., J.Carrera, X.Sánchez-Vila, E. Vázquez-Suñé, 2007. On the meaning of transmissivity values obtained from recovery tests. *Hydrogeology Journal*, volum 15, number 5, 833-842
- Zavala-Sánchez, V., Dentz, M., and Sánchez-Vila, X., 2007. Effective dispersion in a chemically heterogeneous medium under temporally fluctuating flow conditions, *Advances in Water Resources*. 30 (2007) 1342-1345

2008

- Copty, N.K., Trinchero, P., Sanchez-Vila, X, Sarioglu, M.S., Findikakis, A., 2008 Influence of heterogeneity on the interpretation of pumping Test Data Semiconfined Aquifers, *Water Resources Research*, 44, W11419, Doi; 10.1029/2008WR007120
- Fernández-García, D., X. Sánchez-Vila, A. Guadagnini, 2008. Reaction rates and effective parameters in stratified aquifers, *Advances in Water Resources (ISSN 0309-1708)*, VOL. 31, 1364-1376, 2008, KeyA
- Riva, M., A. Guadagnini, D. Fernández-García, X. Sánchez-Vila, (2008) Relative importance of geostatistical and transport models in describing heavily tailed breakthrough curves at the Lauswiesen site, *Journal of Contaminant Hydrology (ISSN 01697722)*, VOL. 101, 1-13, 2008,KeyA
- Trinchero, P., Sanchez-Vila, X., Copty, N., Findikakis, A., 2008. A new method for the interpretation of pumping test in leaky aquifers, *Ground water*, vol. 46 (1), 2008, pag. 133-143.
- Trinchero, P., X. Sánchez-Vila, D. Fernández-García, 2008. Point-to-point connectivity, an abstract concept or a key issue for risk assessment studies, *Advances in Water Resources (ISSN 0309-1708)*, VOL. 31, 2008
- Willmann, M., J. Carrera, And X. Sánchez-Vila, 2008. Transport upscaling in heterogeneous aquifers: What physical parameters control memory functions?, *Water Resour. Res.*, 44, W12437, doi:10.1029/2007WR006531

2009

- Bolster, D., M. Barahona, M. Dentz, D. Fernandez-Garcia, X. Sanchez-Vila, P. Trinchero, C. Valhondo, And D. M. Tartakovsky, 2009. Probabilistic Risk Analysis of Groundwater Remediation Strategies, *Water Resources Research*, VOL. 45, W06413, doi:10.1029/2008WR007551, 2009
- Donado, L., X. Sanchez-Vila, M. Dentz, J. Carrera, D. Bolster, 2009. Multicomponent reactive transport in multicontinuum media, *Water Resources Research*, VOL. 45, W11402, doi:10.1029/2008WR006823, 2009
- Guadagnini, A., X. Sanchez-Vila, M. Saaltink, M. Bussini, B. Berkowitz, 2009. Application of a mixing-ratios based formulation to model mixing-driven dissolution experiments, *Advances in Water Resources* 32 (2009), pp. 756-766
- Riva, A. Guadagnini, X. Sanchez-Vila, 2009. Effect of Sorption Heterogeneity on Moments of Solute Residence Time in Convergent Flows, *Mathematical Geosciences*, volum. 41 (8), pp. 835-853, Springer (55:519.22, 063GEO)
- Sanchez-Vila, X., A. Guadagnini, D. Fernández-García, 2009. Conditional Probability Density Functions of Concentrations for Mixing-Controlled Reactive Transport in Heterogeneous Aquifers. *Mathematical Geosciences*, 41, pp. 323-351
- Sánchez-Vila, X., D. Bolster, 2009. An analytical approach to transient homovalent cation exchange problems. *Journal of Hydrology* 378 (2009) 281-289
- Zavala, V., Sanchez-Vila, X., Dentz. M., 2009., Characterization of mixing and spreading in a bounded stratified medium, *Adv. Water Resources*, 32 (2009) 635-648

2010

- Fernandez-García, D., P. Trinchero, X. Sanchez-Vila, 2010. Conditional stochastic mapping of transport connectivity, *Water Resources Research*, VOL. 46, W10515, doi:10.1029/2009WR008533

- Sanchez-Vila, X., L. D. Donado, A. Guadagnini, And J. Carrera, 2010, A Solution For Multicomponent Reactive Transport Under Equilibrium And Kinetic Reactions, *Water Resour. Res.*, volumen 46, doi:10.1029/2009WR008439
- Sanchez-Vila, X., D. Fernandez,, A. Guadagnini, 2010, Interpretation of column experiments of transport of solutes undergoing an irreversible bimolecular reaction using a continuum approximation, *Water Resour. Res.*, volumen 46
- Vazquez-Sune. E., Carrera. J., Tubau. I., Sanchez-Vila. X., Soler. A., 2010. An approach to identify urban groundwater recharge. *Hydrology and Earth system sciences*. Volume: 14, 10, pp. 2085-2097, doi: 10.5194/hess-14-2085-2010.
- Willmann, M., J. Carrera, X. Sanchez-Vila, O. Silva, M. Dentz., 2010. Coupling of mass transfer and reactive transport for nonlinear reactions in heterogeneous media. *Water Resources Research*, VOL. 46, W07512, doi:10.1029/2009WR007739, 2010

2011

- Barahona-Palomo, M., Riva, M, Sanchez-Vila, X., Vazquez-Suñé, E., Guadagnini, A., 2010. Quantitative comparison of impeller-flowmeter and particle-size-distribution techniques for the characterization of hydraulic conductivity variability. *Hydrogeology Journal* DOI: 10.1007/s10040-011-0706-5
- Barbieri, M., J. Carrera, X. Sanchez-Vila, C. Ayora, J. Cama, M. Kock-Schulmeyer, ML. de Alda, D. Barcelo, JT. Brunet, MH. Garcia, 2011. Microcosm experiments to control anaerobic redox conditions when studying the fate of organic micropollutants in aquifer material, *Journal of Contaminant Hydrology*, Volume: 126, Issue: 3-4 Pages: 330-345 DOI: 10.1016/j.jconhyd.2011.09.003
- Copty, N. K., P. Trinchero, and X. Sanchez-Vila, 2011. Inferring the Spatial Distribution of the Radially-Integrated Transmissivity from Pumping Tests in Heterogeneous Confined Aquifers, *Water Resources Research*, volum 47, rticle Number: W05526 DOI: 10.1029/2010WR009877
- De Barros, F. P.J., D. Bolster, X. Sanchez-Vila, and W. Nowak, 2011. A Divide and Conquer Approach to Cope with Uncertainty, Human Health Risk and Decision Making in Contaminant Hydrology, *Water Resources Research*, 47, W05508, doi:10.1029/2010WR009954
- Fernández-García, D., X. Sánchez-Vila, 2011, Optimal reconstruction of concentrations, gradients and reaction rates from particle distributions, *Journal of Contaminant Hydrology* Volume: 120-21 , Special Issue: SI Pages: 99-114 DOI: 10.1016/j.jconhyd.2010.05.001
- Pedretti, D., D. Fernandez-García, X. Sanchez-Vila, M. Barahona-Palomo, D. Bolster, , 2011. Combining physical-based models and satellite images for the spatio-temporal assessment of soil infiltration capacity, *Stochastic Environmental Research and Risk Assessment*, volum 25, issue 8, 2011. pages : 1065-1075 ISSN: 1436-3240, 1-11, doi: 10.1007/s00477-011-0486-4
- Pedretti, D., M. Barahona-Palomo, D. Bolster, D. Fernandez-Garcia, X. Sanchez-Vila, 2011. Using satellite images for spatial assessment of the infiltration capacities of soil, *Journal of Hydrology* (in press)
- Trinchero, P., R. Beckie, X. Sanchez-Vila, C. Nichol, 2011. Assessing preferential flow through an unsaturated waste rock pile using spectral analysis, *Water Resources Research*, Volumen: 47, Nº artículo: W07532, DOI: 10.1029/2010WR010163

2012

- Barbieri, M., J. Carrera, C. Ayora, X. Sánchez-Vila, T. Licha, K. Nödler, V. Osorio, S. Pérez, M. Köck-Schulmeyer, M. López De Alda, D. Barceló, 2012. Formation of diclofenac and sulfamethoxazole reversible transformation products in aquifer material under denitrifying conditions: batch experiments, *Science of the Total Environment*, 23-APR-2012, DOI information: 10.1016/j.scitotenv.2012.02.058
- Barbieri, M., T. Licha, K. Nödler, J. Carrera, C. Ayora, X. Sanchez-Vila, 2012. Fate of b-blockers in aquifer material under nitrate reducing conditions: Batch experiments, *Chemosphere* 89 (2012) 1272–1277
- Fernandez-García, D, D. Bolster, X. Sanchez-Vila, DM, Tartakovsky, 2012, A Bayesian approach to integrate temporal data into probabilistic risk analysis of monitored NAPL remediation, *Advances in Water Resources*, Volum: 36 Pages: 108-120 DOI: 10.1016/j.advwatres.2011.07.001
- Jurado, A., F. De Gaspari, V. Vilarrasa, D. Bolster, X. Sanchez-Vila, X., D. Fernandez-Garcia, DM. Tartakovsky, 2012, Probabilistic analysis of groundwater-related risks at subsurface excavation sites, *Engineering Geology*, Volume: 125, Pages:35-44, DOI:10.1016/j.enggeo.2011.10.015
- Navarro-Ortega, A., Acuna, V., Batalla, R.J., Blasco, J., Conde, C., Elosegui, A., Francés, F., La-Roca, F., Muñoz, I., Petrovic, M., Picó, Y., Sabater, S., Sanchez-Vila, X., Schuhmacher, M. And Barceló D., 2012.

Assessing and forecasting the impacts of global change on Mediterranean rivers. *The SCARCE Consolider project on Iberian basins. Environmental Science and Pollution Research*, DOI: 10.1007/s11356-011-0566-5

- Pedretti, D., M. Barahona-Palomo, D. Bolster, X. Sanchez-Vila, D. Fernandez-Garcia, D., 2012. A quick and inexpensive method to quantify spatially variable infiltration capacity for artificial recharge ponds using photographic images, *JOURNAL OF HYDROLOGY* Volume: 430 Pages: 118-126 DOI: 10.1016/j.jhydrol.2012.02.008
- Pedretti, D., M. Barahona-Palomo, D. Bolster, D. Fernandez-Garcia, X. Sanchez-Vila, Dm. Tratakovski, 2012. Probabilistic analysis of maintenance and operation of artificial recharge ponds, *Advances in Water Resources*, 36, 23-35, doi: 10.1016/j.advwatres.2011.07.008

2013

- Bianchi-Janetti, E., I. Dror, M. Riva, A. Guadagnini, X. Sanchez-Vila, B. Berkowitz, 2013. Mobility and Interaction of Heavy Metals in a Natural Soil, *Transport in porous media* Volume: 97 Issue: 3 Pages: 295-315 DOI: 10.1007/s11242-013-0125-2
- De Barros, F. D. Fernandez-Garcia, D. Bolster, X. Sanchez-Vila, 2013. A risk-based probabilistic framework to estimate the endpoint of remediation: Concentration rebound by rate-limited mass transfer *Water Resources Research* Volume: 49 Issue: 4 Pages: 1929-1942 DOI: 10.1002/wrcr.20171
- de Barros, FPJ., Guadagnini, A., Fernandez-Garcia, D., Riva, M., Sanchez-Vila, X, 2013. Controlling scaling metrics for improved characterization of well-head protection regions, *JOURNAL OF HYDROLOGY*, 494, 107-115, DI 10.1016/j.jhydrol.2013.04.040
- Kumar, V., de Barros, FPJ., Schuhmacher, M., Fernandez-Garcia, D., Sanchez-Vila, X, 2013. Dynamic interactions between hydrogeological and exposure parameters in daily dose prediction under uncertainty and temporal variability, *JOURNAL OF HAZARDOUS MATERIALS*, 263, 197-206, DI 10.1016/j.jhazmat.2013.08.036
- Molinari, A., Guadagnini, L., Marcaccio, M.; S. Straface, X. Sánchez-Vila, A. Guadagnini, 2013. Arsenic release from deep natural solid matrices under experimentally controlled redox conditions, *Science Of The Total Environment* Volume: 444 Pages: 231-240 DOI: 10.1016/j.scitotenv.2012.11.093
- Pedretti, D., Fernandez-Garcia, D., Bolster, D., Sanchez-Vila, X, 2013. On the formation of breakthrough curves tailing during convergent flow tracer tests in three-dimensional heterogeneous aquifers, *WATER RESOURCES RESEARCH*, 49(7), 4157-4173, DI 10.1002/wrcr.20330
- Sanchez-Vila, X., S. Rubol, A. Carles-Brangari, D. Fernandez-Garcia, 2013. An analytical solution to study substrate-microbial dynamics in soils *Advances In Water Resources* Volume: 54 Pages: 181-190 DOI: 10.1016/j.advwatres.2013.02.004

2014

- Armengol, S., Sanchez-Vila, X., Folch, A, 2014. An approach to aquifer vulnerability including uncertainty in a spatial random function framework, *JOURNAL OF HYDROLOGY*, 517, 889-900, DI 10.1016/j.jhydrol.2014.06.016
- Molinari, A., Ayora, C., Marcaccio, M., Guadagnini, L., Sanchez-Vila, X., Guadagnini, A, 2014. Geochemical modeling of arsenic release from a deep natural solid matrix under alternated redox conditions, *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*, 21(3), 1628-1637, DI 10.1007/s11356-013-2054-6
- Pedretti, D., Fernandez-Garcia, D., Sanchez-Vila, X., Bolster, D., Benson, DA, 2014. Apparent directional mass-transfer capacity coefficients in three-dimensional anisotropic heterogeneous aquifers under radial convergent transport, *WATER RESOURCES RESEARCH*, 50(2), 1205-1224, DI 10.1002/2013WR014578
- Riva, M., Sanchez-Vila, X., Guadagnini, A, 2014. Estimation of spatial covariance of log conductivity from particle size data, *WATER RESOURCES RESEARCH*, 50(6), 5298-5308, DI 10.1002/2014WR015566
- Rubol, S., Freixa, A., Carles-Brangari, A., Fernandez-Garcia, D., Romani, AM, Sanchez-Vila, X, 2014. Connecting bacterial colonization to physical and biochemical changes in a sand box infiltration experiment, *JOURNAL OF HYDROLOGY*, 517, 317-327, DI 10.1016/j.jhydrol.2014.05.041
- Sanchez-Vila, X., S. Rubol, A. Carles-Brangari, D. Fernandez-Garcia, 2013. An analytical solution to study substrate-microbial dynamics in soils, *Advances In Water Resources* Volume: 54 Pages: 181-190 DOI: 10.1016/j.advwatres.2013.02.004

- Velasco, V., Tubau, I., Vazquez-Sune, E., Gogu, R., Gaitanaru, D., Alcaraz, M., Serrano-Juan, A., Fernandez-Garcia, D., Garrido, T., Fraile, J., Sanchez-Vila, X, 2014. GIS-based hydrogeochemical analysis tools (QUIMET), COMPUTERS & GEOSCIENCES, 70, 164-180, DOI 10.1016/j.cageo.2014.04.013

6.- AWARDS

Awards

2011 ICREA Academia Distinction, granted by ICREA

2011 Arthur T. Ippen Award, granted for the International Association for Hydro-Environment Engineering and Research (IAHR), april 2011

2011: Extraordinary doctorate prize the 2008-2009 academic year his PhD student Matthias Willmann granted by the Doctoral Committee of the UPC.

2008: Award for research intensification at the UPC (total of 9 awards)

Distinction from Generalitat de Catalunya for the university research Promotion, granted for University Departments, Research and Society of the information of Generalitat de Catalunya (Departament de Universitats, Recerca i Societat de la Informació de la Generalitat de Catalunya) in July de 2002.

Water Award 2001, from the Friend's of water Catalan Association (Associació Catalana d'Amics de l'Aigua), awarded to the Groundwater International Course, coordinated by F. Javier Sánchez Vila, 22 March 2001.

Extraordinary Award of Doctorate, granted for the Politechnical University of Catalonia (UPC, Universitat Politècnica de Catalunya), belonging to the academic Course 1994-95, 1997.

Award "Harry Bolton Seed Award", granted for the Geotechnical Department of the California University in Berkeley, 1990.

7.- DIRECTION OF PH. D. THESES (Total=12)

- Peter M. Meier (1999). Title: Estimation of representative groundwater flow and solute transport parameters in heterogeneous formations.
- Enric Vázquez-Suñé (2003) Title: Urban Groundwater. Barcelona City Case Study
- Elena Abarca Cameo (2006) Title: Effect of heterogeneity of seawater intrusion in coastal aquifers
- Anne Delos (2007) Title: Colloid and colloid-borne radionuclide migration in groundwaters
- Vanessa Zavala (2008) Title: Characterization of mixing and spreading in heterogeneous media
- Matthias Willmann (2008) Title: Scaling of Subsurface Processes in Heterogeneous Aquifers: From Hydraulic Testing to the Use of Memory Functions

- Paolo Trincherò (2009) Title: Characterization of spatial heterogeneity in groundwater applications
- Leonardo David Donado Garzón (2009) Title: Multicomponent Reactive Transports in Porous Media: from the natural complexity to analytical solutions
- Adolfo Castro (2010) Title: A Randomwalk Particle Tracking Methodology To Model Reactive Transport In Heterogeneous Porous
- Manuela Barbieri (2011) Title: On the physical, chemical and biological processes related to artificial recharge of groundwater fate of organic microcontaminants
- Daniele Pedretti (2012) Title: Tools and analysis of spatio-temporal dynamics in heterogeneous aquifers: Applications to artificial recharge and forced-gradient solute transport
- Marco Barahona-Palomo (2014)

13.- ADDITIONAL INFORMATION

Academic Information

- Vice Dean of the Civil Engineering School for International Relations, september 2002-september 2004
- Director of the Department of Geotechnical Engineering and Geosciences, Civil Engineering School, UPC, since February 2009

Member of Editorial Boards

Hydrogeology Journal (1995-99)

Water Resources Research (2010-)

Advances in Water Resources (2009-2013)

Mathematical Geosciences (2009-2013)

Administrative Positions in Professional Associations

- President of the Spanish Chapter of the International Association of Hydrogeologists (Grupo Español de la Asociación Internacional de Hidrogeólogos) (AIH-GE), July 2000 – October 2003
- Vice Chair of the Committee on Groundwater Hydraulics and Management (International Association of Hydro-Environment Engineering and Research) (2009-2010)
- Chair of the Committee on Groundwater Hydraulics and Management (International Association of Hydro-Environment Engineering and Research) (2011-)