

Curriculum Vitae - January 2016

FRANCISCO JOSÉ GALINDO ROSALES

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EDUCATION

- **Ph.D. (cum laude) in Mechatronics, 2008**
University of Málaga. Department of Mechanical Engineering
“Programa de Ingeniería de los Sistemas de Producción: Ingeniería Mecatrónica”
(*PhD Program - Production System Engineering: Mechatronics*)
Advisor: Dr. Francisco José Rubio Hernández (fjrubio@uma.es).
“Caracterización reológica de suspensiones de dióxido de silicio pirogénico en polipropilenglicol”
(*Rheological characterization of pyrogenic silicon dioxide suspensions in polypropylene glycol*)
- **Master in Applied Physics (outstanding, 60 Credits), 2008**
University of Vigo
- **PGCE (Post Graduate Certificate in Education) (very good), 2008**
University of Jaén
- **Advanced Studies Degree (outstanding), 2006**
University of Málaga. Department of Mechanical Engineering and Fluid Mechanics.
Advisor: Dr. Joaquín Ortega Casanova (jortega@uma.es).
“Simulación numérica de flujos para fluidos no Newtonianos con comportamiento tixotrópico”
(*Numerical simulation of flow for non-Newtonian fluids with thixotropic behaviour*)
- **Master’s Degree in Industrial Engineering (cum laude), 2004**
University of Málaga. Department of Applied Physics II.
Advisor: Dr. Francisco José Rubio Hernández (fjrubio@uma.es).
“Tixotropometría. Métodos e influencia de las condiciones y parámetros de medida”
(*Thixotropy. Methods, influence of measurement conditions and experimental parameters*)

TEACHING/ADVISING EXPERIENCE

Positive evaluation by the Spanish Agency for Quality Assessment and Accreditation (ANECA) for the academic figures of :

- Non-civil servant tenured **Lecturer** (Profesor Contratado Doctor),
- Post-Dissertation Doctoral **Teaching Assistant** (Profesor Ayudante Doctor),
- Private University Professor (Profesor de Universidad Privada).

Undergraduate and Graduate Courses

- Invited teaching assistant. School of Engineering - University of Porto (FEUP). Department of Mechanical Engineering. Heat and Fluid Area. (1st semester 2013/14).
- Invited teaching assistant. School of Engineering - Polytechnic of Porto (ISEP). Department of Mechanical Engineering. Heat and Fluid Area. (1st semester 2010/11).
- Teaching assistant. University of Jaén. Department of Mechanical Engineering and Mining. Fluid Mechanics Area. (2008).
- Teaching assistant. University of Jaén. Department of Mechanical Engineering and Mining. Continuous Medium Mechanics and Theory of Structures Area. (2006/08).

MSc Thesis co-supervisor

- Joana Andreia Conceição Calejo, “Influence of the non-Newtonian properties of blood on pulsatile and steady flows through stenosis microchannel models”. Supervised by L. Campo-Deaño, F.J. Galindo-Rosales, R. Lima, A. Sevilla-Santiago, Javier Rodríguez (October 2012 - October 2013). Master in Biomedical Technology, Polytechnic Institute of Bragança, Portugal.
- Tânia Catarina Santos Dinis, “Development of protective foam paddings”. Supervised by F.J. Galindo-Rosales, L. Campo-Deaño, R. Lima, A. Sevilla-Santiago, Javier Rodríguez (October 2012 - October 2013). Master in Biomedical Technology, Polytechnic Institute of Bragança, Portugal.

Researcher co-supervisor

- Bruna Amorim Pires. Researcher under the project entitled “Development of advanced energy absorbing composites based on natural cork, shear thickening fluids and microfluidics (CorkSTFluidics)”. Supervised by F.J. Galindo-Rosales and L. Campo-Deaño (September 2015 - December 2015). Faculty of Engineering of the University of Porto, Portugal.
- Sergio Martínez Aranda. Researcher under the project entitled “Development of advanced energy absorbing composites based on natural cork, shear thickening fluids and microfluidics (CorkSTFluidics)”. Supervised by F.J. Galindo-Rosales and L. Campo-Deaño (March 2015 - August 2015). Faculty of Engineering of the University of Porto, Portugal.

- Ricardo Jorge Espanhol Andrade. “Extensional rheometry of shear thickening fluids”. Visiting Postdoctoral Researcher from Foundation for Research & Technology-Hellas (FORTH). Supervised by F.J. Galindo-Rosales and L. Campo-Deaño (January 2015). Faculty of Engineering of the University of Porto, Portugal.
- Sergio Martínez Aranda. Researcher under the project entitled “Optimization of swimming-microbot’s morphology for biomedical applications (Optibots)”. Supervised by L. Campo-Deaño and F.J. Galindo-Rosales (March 2014 - February 2015). Faculty of Engineering of the University of Porto, Portugal.
- Juan Pablo Segovia Gutiérrez, “Extensional rheometry of magnetic fluids”. PhD visiting student from the University of Granada. Supervised by F.T. Pinho, M.A. Alves and F.J. Galindo-Rosales (February 2013 - April 2013). Faculty of Engineering of the University of Porto, Portugal.

Participation in Juries

- 2010. Exam of Master Thesis of Helder Filipe da Costa Alves at the Faculty of Engineering of the University of Porto, Portugal
- 2011. Exam of Master Thesis of João Carlos Teixeira Magalhães Freitas at the Faculty of Engineering of the University of Porto, Portugal
- 2011. Exam of Master Thesis of António Henrique de Morais Sarmiento Xavier Madureira at the Faculty of Engineering of the University of Porto, Portugal
- 2011. Exam of Master Thesis of Ricardo Miguel Sousa Barbosa at the Faculty of Engineering of the University of Porto,
- 2013. Exam of Master Thesis of Jorge Miguel Silva Cardoso at the Faculty of Engineering of the University of Porto, Portugal
- 2014. Exam of PhD Thesis of Faiçal Fedoul at the Faculty of Engineering of the University of Málaga, Spain

Workshops & Seminars

- *Microfluidics Complex fluid flows at CEFT/FEUP*. “Soft.Matter@PT Workshop”. University of Lisbon, March, 2014.
- *Desarrollo y optimización de reómetros extensionales en un chip*. Invited talk at the University of Granada, September, 2013.
- *Reometría extensional en microfluídica*. Invited talk at the University Carlos III of Madrid, May, 2013.
- *Extensional rheometry*. “12th European School on Rheology”. Katholieke Universiteit Leuven, September 2009.
- *Rheology of polymers*. “Fundamentals on Applied Rheology”. University of Málaga, October 2007.

- *Simulación numérica de flujo: Fluent 6.2*. Rheology and Electrokinetics group. University of Málaga, June 2006.
- *Tixotropía*. Rheology and Electrokinetics group. University of Málaga, April 2006.
- *Análisis de flujo en geometrías de dobles cilindros concéntricos, cono-plato y plato-plato*. Rheology and Electrokinetics group. University of Málaga, January 2006.
- *Ensayos oscilantes*. Rheology and Electrokinetics group. University of Málaga, November 2005.
- *Inyectores de tinta*. Rheology and Electrokinetics group. University of Málaga, March 2005.

Innovative Educational Projects

- *Las tutorías como recurso docente*. Funded by Unidad para la Calidad de las Universidades Andaluzas (UCUA 2006)

RESEARCH EXPERIENCE

Research Fellow - Universidade do Porto (Portugal)

From the 18th Dezember 2013

Faculdade de Engenharia da Universidade do Porto. Transport Phenomena Research Center.

FCT Investigator “Starting” Grant supported by *Fundação para a Ciência e a Tecnologia*, ref. IF/00190/2013 (“Development of advanced energy absorbing composites based on natural cork, shear thickening fluids and microfluidics (CorkSTFluidics)”).

Post-doctoral researcher - Universidade do Porto (Portugal)

From the 1st October 2010 to 17th Dezember 2013 (39 months)

Faculdade de Engenharia da Universidade do Porto. Transport Phenomena Research Center.

Fellowship supported by *Fundação para a Ciência e a Tecnologia*, ref. SFRH/BPD/69663/2010 (“Development and optimization of Extensional-Rheometers-on-a-Chip (ExRheCs)”).

Working under the supervision of Dr. Manuel António Moreira Alves (mmalves@fe.up.pt) and Dr. Mónica Sofia Neves de Freitas Oliveira (monica.oliveira@strath.ac.uk), the main tasks to be developed are:

- Rheological characterization of viscoelastic fluids by means of uniaxial extensional and simple shear flows.
- Designing, developing and optimizing an extensional microrheometer-on-a-chip by means of experimental (soft lithography, μ PIV, streakline photography, and pressure drop measurements) and numerical techniques (numerical codes developed in CEFT).

Other activities:

- Co-webmaster of the CEFT website (<http://paginas.fe.up.pt/ceft>) and responsible for the CEFT Equipment Schedule (<http://paginas.fe.up.pt/~msno/ceft/calendar.htm>).
- Co-responsible for the maintenance of the rheometers.
- Design of microchannels in AutoCAD for its manufacture.

Scientific visitor - University of Oxford (United Kingdom)

From the 1st March 2012 to 31st May 2012 (3 months)

Physical and Theoretical Chemistry Laboratory.

Supported by *Fundação para a Ciência e a Tecnologia*, ref. SFRH/BPD/69663/2010 (“Development and optimization of Extensional-Rheometers-on-a-Chip (ExRheCs)”).

Working under the supervision of Dr. Dirk Aarts (dirk.aarts@chem.ox.ac.uk) and Dr. Roel Dullens (roel.dullens@chem.ox.ac.uk), the main tasks developed were:

- Synthesis of fluorescent PMMA microparticles and preparation of colloid-polymer mixtures.
- Rheological characterization of colloid-polymer mixtures in simple shear flow (Ares AR-G2)
- Design and fabrication of SU-8 Silicon Wafer master molds.
- Analysis of the two-phase flow in cross-slot microchannels by means of laser scanning confocal microscopy (Zeiss Exciter).

Post-doctoral researcher - Universidade do Porto (Portugal)

From the 12th May 2010 to 1st October 2010 (~4.5 months)

Faculdade de Engenharia da Universidade do Porto. Transport Phenomena Research Center.

External collaborator.

Working under the supervision of Prof. Fernando T. Pinho (fpinho@fe.up.pt), Dr. Manuel A. Alves (mmalves@fe.up.pt) and Dr. Mónica S.N. Oliveira (monica.oliveira@strath.ac.uk), the main tasks developed were:

- Rheological characterization of viscoelastic fluids by means of uniaxial extensional and simple shear flows.
- Experiments with microfluidic devices analogues of porous medium (soft lithography, streakline photography and pressure drop measurements).
- Experiments with Newtonian and viscoelastic fluids in unconsolidated packed beds.

Post-doctoral researcher - Katholieke Universiteit Leuven (Belgium)

From the 1st October 2008 to the 28th February 2010 (17 months)

Laboratory of Applied Rheology and Polymer Technology.

Fellowship supported by *NanCore Project* (“Microcellular nanocomposite for substitution of Balsa wood and PVC core material”) - EU Seventh Framework Programme.

Working under the supervision of Prof. Paula Moldenaers (Paula.Moldenaers@cit.kuleuven.be) and Prof. Jan Vermant (jan.vermant@cit.kuleuven.be), the main tasks developed were:

- Rheological characterization of nanocomposites based on nanofillers (Nanosilicas / Nanoclays / Carbon Nanotubes in polymer melts) by means of uniaxial extensional and simple shear flows.
- Analysis and study of the influence of the non-Newtonian behaviours on the processing of a microcellular polymer nanocomposite foam.
- Study of the relation between rheology and structure of colloidal dispersions, with an emphasis on the assessment of the dispersion quality of particles (spherical and non-spherical) in viscoelastic fluids.
- Elaboration and presentation of results in meetings and technical reports.

Pre-doctoral researcher - University Jean Monnet of Saint Etienne (France)

From the 1st of September 2006 to the 3rd of October 2006 (1 month)

Laboratoire de Rheologie des Matieres Plastiques (UMR CNRS 5156)

Fellowship supported by University of Málaga.

Working under the supervision of Prof. C. Carrot (carrot@univ-st-etienne.fr) and J.C. Majesté (jean.charles.majeste@univ-st-etienne.fr), the main task developed was:

- Rheological characterization of nanocomposites based on Nanosilicas dispersed in HDPE matrix by means of simple shear and SEM.

Pre-doctoral researcher - Von Karman Institute for Fluid Dynamics (Belgium)

From 4th October 2004 to 10rd December 2004 (2 months)

Environmental and Applied Fluid Dynamics Department. Short training program.

Fellowship supported by Von Karman Institute for Fluid Dynamics.

Working under the supervision of Prof. J. van Beeck (vanbeeck@vki.ac.be), the main task developed was:

- Scaling up an inkjet printer for the analysis of satellite drop formation.

GRANTS / AWARDS

- FCT Investigator “Starting” Grant. Faculdade de Engenharia da Universidade do Porto. Supported by *Fundação para a Ciência e a Tecnologia*, ref. IF/00190/2013 (“Development of advanced energy absorbing composites based on natural cork, shear thickening fluids and microfluidics (CorkSTFluidics)”) From December 2013
- Postdoc research grant (39 months). Faculdade de Engenharia da Universidade do Porto. Supported by Fundação para a Ciência e a Tecnologia. SFRH/BPD/69663/2010 (“Development and optimization of Extensional Rheometers on a Chip (ExRheCs)”). From October 2010 to December 2013.

- Researcher travel grant. Supported by University of Jaén. October 2008.
- Student travel grant. Supported by University of Vigo. August 2008.
- Student travel grant. Supported by Nordic Society of Rheology. June 2006.
- Student research grant (18 months). University of Málaga. Supported by CICYT MAT2003-04688 project. From March 2005 to October 2006.
- Student travel grant. Supported by Von Karman Institute for Fluid Dynamics. October 2004.

RESEARCH AND DEVELOPMENT PROJECTS

As principal investigator

- CorkSTFluidics - Development of advanced energy absorbing composites based on natural cork, shear thickening fluids and microfluidics". Funded by Fundação para a Ciência e a Tecnologia (IF/00190/2013/CP1160/CT0003)

As a member of the research team

- OptiBots - Optimization of swimming-microbots morphology for biomedical applications. Funded by Fundação para a Ciência e a Tecnologia (EXPL/EMS-TRA/2306/2013)
- Strategic project - UI 532 - 2013-2014. Funded by Fundação para a Ciência e a Tecnologia (PEst-EO/EME/UI0532/2013)
- EXTENSION - Extensional flow of complex fluids in microfluidic devices. Funded by Fundação para a Ciência e a Tecnologia (PTDC/EME-MFE/114322/2009)
- ELECTROELASTIC- Electroosmotic flow of viscoelastic fluids in microchannels. Funded by Fundação para a Ciência e a Tecnologia (PTDC/EQU-FTT/113811/2009)
- MICROMIXING- Passive micromixing of viscoelastic fluids. Funded by Fundação para a Ciência e a Tecnologia (PTDC/EQU-FTT/70727/2006)
- Correlación de la trabajabilidad del hormigón autocompactante con sus propiedades reológicas. Análisis y optimización de ensayos (Correlation between the rheological properties of the self-compacting concrete and its workability. Analysis and optimization of the experimental techniques). Funded by Hormigones y Minas S.A. (Italcementi Group), (Otri-UMA 8.06/5.572711).
- Reología y caracterización de materiales cerámicos nanoparticulados (Rheology and characterization of nanoparticles of ceramic materials). Funded by Spanish Government (CICYT MAT2003-04688).

REVIEWING FOR INDEXED JOURNALS

- Journal of Rheology - 2012-15 [4]

- Applied Rheology - 2012-15 [1]
- Rheologica Acta - 2013-16 [3]
- Journal of non-Newtonian Fluid Mechanics - 2015-16 [3]
- Korean-Australian Rheology Journal - 2014-15 [3]
- Colloids and Surfaces A: Physicochemical and Engineering Aspects - 2012-14 [2]
- Arabian Journal for Science and Engineering - 2012-14 [3]
- Scientia Iranica - 2011-12 [3]
- International Journal of Computational Fluid Dynamics - 2014 [1]
- Korean-Australian Rheology Journal - 2014-15 [3]
- Materials & Design - 2015 [1]
- RSC Advances - 2016 [1]

REVIEWING FOR R&D FUNDING AGENCIES

- Research Executive Agency (European Commission) - FP7-PEOPLE-2013
- Research Executive Agency (European Commission) - H2020-MSCA-IF-2014
- Research Executive Agency (European Commission) - H2020-NMP-PILOTS-2014

PUBLICATIONS

Published papers in "peer reviewed" and "indexed" Journals

24. S. Martinez-Aranda, F.J. Galindo-Rosales, L. Campo-Deaño. Complex flow dynamics around 3D microbot prototypes. *Soft Matter* (2016); doi 10.1039/C5SM02422F.
23. J. Calejo, D. Pinho, F.J. Galindo-Rosales, R. Lima, L. Campo-Deaño. Particulate blood analogues reproducing the erythrocytes cell free layer in a microfluidic device containing a hyperbolic contraction. *Micromachines*, 7(1) (2016) 4; doi:10.3390/mi7010004.
22. F.J. Galindo-Rosales, S. Martínez-Aranda, L. Campo-Deaño. CorkSTF μ fluidics - A novel concept for the development of eco-friendly light-weight energy absorbing composites based on micro-agglomerated corks, shear thickening fluids and microfluidic networks. *Materials & Design*, 82, 326-334 (2015).
21. F.J. Galindo-Rosales, J.P. Segovia-Gutiérrez, F.T. Pinho, M.A. Alves, J. de Vicente. Extensional rheometry of magnetic dispersions. *Journal of Rheology*, 59, 193 (2015).

20. S.J. Haward, F.J. Galindo-Rosales, P. Ballesta, M.A. Alves. Spatiotemporal flow instabilities of wormlike micellar solutions in rectangular microchannels. *Applied Physics Letters*, 104, 124101 (2014).
19. F.J. Galindo-Rosales, L. Campo-Deaño, P.C. Sousa, V.M. Ribeiro, M.S.N. Oliveira, M.A. Alves, F.T. Pinho. Viscoelastic instabilities in micro-channel flows. *Experimental Thermal and Fluid Science*, 59, 7799-7804 (2014).
18. F.J. Galindo-Rosales, M.S.N. Oliveira, M.A. Alves. Optimized cross-slot microdevices for homogeneous extension. *RSC Advances*, 4, 7799-7804 (2014).
17. F.J. Galindo-Rosales, M.A. Alves, M.S.N. Oliveira. Microdevices for extensional rheometry of low viscosity elastic liquids: a review. *Microfluidics and Nanofluidics*, 14(1-2), 1-19 (2013).
16. L. Campo-Deaño, F.J. Galindo-Rosales, F.T. Pinho, M.A. Alves, M.S.N. Oliveira. Nanogel formation of low viscosity Boger fluids flowing through porous media. *Soft Matter*, 8, 6445-6453 (2012)
15. F.J. Galindo-Rosales, L. Campo-Deaño, F.T. Pinho, E. van Bokhorst, P.J. Hamersma, M.S.N. Oliveira, M.A. Alves. Microfluidic systems for the analysis of viscoelastic effects in flow through porous media. *Microfluidics and Nanofluidics*, 12(1-4), 485-498 (2012)
14. F.J. Galindo-Rosales, F.J. Rubio-Hernández, A. Sevilla, R.H. Ewoldt. How Dr. Malcom M. Cross would may have tackled the development of An apparent viscosity function for shear thickening fluids. *Journal of Non-Newtonian Fluid Mechanics*, 166(23-23), 1421-1424 (2011).
13. L. Campo-Deaño, F.J. Galindo-Rosales, M.S.N. Oliveira, M.A. Alves, F.T. Pinho. Flow of low viscosity Boger fluids through a microfluidic hyperbolic contraction. *Journal of Non-Newtonian Fluid Mechanics*, 166(21-22), 1286-1296 (2011).
12. F.J. Galindo-Rosales, F.J. Rubio-Hernández, A. Sevilla. An apparent viscosity function for shear thickening fluids. *Journal of Non-Newtonian Fluid Mechanics*, 166(5-6), 321-325 (2011).
11. F.J. Galindo-Rosales, P. Moldenaers, J. Vermant. Quantitative assessment of the dispersion quality by rheological methods. *Macromolecular Materials and Engineering*, 296(3-4), 331-340 (2011).
10. F.J. Galindo-Rosales, F.J. Rubio-Hernández. Static and Dynamic Yield Stresses of Aerosil 200 suspension in Polypropylene Glycol. *Applied Rheology*, 20:2, 22787 (2010).
9. F.J. Galindo-Rosales, F.J. Rubio-Hernández, J.F. Velázquez-Navarro. Shear-thickening behavior of Aerosil A (R) R816 nanoparticles suspensions in polar organic liquids. *Rheologica Acta*, 48(6), 699-708 (2009).
8. F.J. Rubio-Hernández, J.F. Velázquez Navarro, F.J. Galindo-Rosales. Rheological characterization of a time dependent fresh cement paste. *Mechanics of time dependent materials*, 13(2), 199-206 (2009).

7. F.J. Galindo-Rosales, F.J. Rubio-Hernández. Numerical Simulation in Steady Flow of Newtonian and Shear Thickening Fluids in Pipes with Circular Cross-Section. *AIP Conference Proceedings*, 1027(1-7), 1468-1470 (2008).
6. A.I. Gómez-Merino, F.J. Rubio-Hernández, J.F. Velázquez-Navarro, F.J. Galindo-Rosales. Rheological Properties of Binary Suspensions TiO₂ Al₂O₃: Effect of Ionic Strength. *AIP Conference Proceedings*, 1027(1-7), 770-772 (2008).
5. F.J. Galindo-Rosales, F.J. Rubio-Hernández. Transient study on the shear thickening behaviour of surface modified fumed silica suspensions in polypropylene glycol. *AIP Conference Proceedings*, 1027(1-7), 686-688 (2008).
4. A.I. Gómez-Merino, F.J. Rubio-Hernández, J.F. Velázquez-Navarro, F.J. Galindo-Rosales, P. Fortes-Quesada. (2007). The Hamaker constant of anatase aqueous suspensions. *Journal of Colloid and Interface Science*, 316, 451-456.
3. F.J. Galindo-Rosales, F.J. Rubio-Hernández, J.F. Velázquez-Navarro, A.I. Gómez-Merino. (2007). Structural level of Silica-Fumed aqueous suspensions. *Journal of American Ceramic Society*, 90, 1641-1643.
2. F.J. Galindo-Rosales, F.J. Rubio-Hernández. (2006). Structural breakdown and build-up in bentonite dispersions. *Applied Clay Science*, 33, 109-115.
1. F.J. Rubio-Hernández, M.F. Ayúcar-Rubio, J.F. Velázquez-Navarro, F.J. Galindo-Rosales. (2006). Intrinsic viscosity of SiO₂, Al₂O₃ and TiO₂ aqueous suspensions. *Journal of Colloid and Interface Science*, 298, 967-972.

Editor of "peer reviewed" and "indexed" Journals

1. Invited Editor for the Special Issue entitled "Applications of Complex Fluids", Applied Sciences [I.F. 1.484] (ISSN 2076-3417) since November 2015 ([Link](#)).

Book & Book chapters

3. Perspectives in fundamental and applied rheology. *Edited by F.J. Rubio-Hernández, A.I. Gómez-Merino, C. Pino, L. Parras, L. Campo-Deaño, F.J. Galindo-Rosales, J.F. Velázquez-Navarro.*, ISBN: 978-84-616-6551-8 (2013).
2. F.J. Galindo-Rosales, F.J. Rubio-Hernández. Caracterización reológica de suspensiones de dióxido de silicio pirogénico en polipropilenglicol. *Editorial Académica Española*, ISBN: 978-3-8465-6127-0 (2011).
1. F.J. Galindo-Rosales, F.J. Rubio-Hernández. Chapter 1.- Numerical Simulation in Steady Flow of Non-Newtonian Fluids in Pipes with Circular Cross-Section, *Numerical Simulations - Examples and Applications in Computational Fluid Dynamics*, Lutz Angermann (Ed.), ISBN: 978-953-307-153-4, InTech.

Proceedings

12. F.J. Galindo-Rosales, S.J. Haward, M. A. Alves. (September, 2013). Velocity overshoots in rectangular rectilinear microchannels. *4th Iberian Rheology Meeting (Ibereo2013)*, Málaga, Spain. ISBN 978-84-616-6551-8.
11. F.J. Galindo-Rosales, L. Campo-Deaño, F. T. Pinho, M.S.N. Oliveira, M. A. Alves. (September, 2011). Numerical analysis of Microfluidic Systems Analogue of Porous Media (MSAPM) for Newtonian and low viscous Boger fluid flows. *3rd Iberian Rheology Meeting (Ibereo2011)*, Caparica, Portugal. ISBN 978-972-8669-50-8.
10. L. Campo-Deaño, F.J. Galindo-Rosales, F. T. Pinho, M. A. Alves, M.S.N. Oliveira. (September, 2011). Gel formation of low viscous Boger fluids under high shear and extensional strain rate flow conditions. *3rd Iberian Rheology Meeting (Ibereo2011)*, Caparica, Portugal. ISBN 978-972-8669-50-8.
9. L. Campo-Deaño, F.J. Galindo-Rosales, M.S.N. Oliveira, M. A. Alves, F. T. Pinho (August, 2011). Boger Fluids through hyperbolic contraction microchannels. *3rd Micro and Nano Flows Conference (MNF2011)*, Thessaloniki, Greece. ISBN 978-1-902316-98-7.
8. F.J. Galindo-Rosales, L. Campo-Deaño, M.S.N. Oliveira, M. A. Alves, F. T. Pinho, E. v. Bokhorst, P. J. Hamersma (August, 2011). Microchannels analogues for the study of viscoelastic fluid flows through porous media. *3rd Micro and Nano Flows Conference (MNF2011)*, Thessaloniki, Greece. ISBN 978-1-902316-98-7.
7. F.J. Galindo-Rosales, F.J. Rubio-Hernández, A. Sevilla-Santiago *Experimental, theoretical and numerical rheology of Aerosil fumed silica suspensions in polypropylenglycol*. Rheology in product design and engineering. Grupo Español de Reología (RSEQ), 2008. ISBN 978-84-608-0779-7.
6. F.J. Galindo-Rosales, F.J. Rubio-Hernández. Comportamiento reológico de suspensiones no acuosas de dióxido de silicio pirogénico. Influencia del tratamiento superficial. XXXI Reunión Bienal de la Real Sociedad Española de Física y Primer Encuentro Ibérico para la enseñanza de la Física. Comunicaciones científicas, 2007. ISBN 978-84-690-7298-1
5. F.J. Rubio-Hernández, J. Escobar Miguel, J.F. Velázquez-Navarro, F.J. Galindo-Rosales. El lazo tixotrópico. Aplicación al estudio de una pasta de cemento autocompactante. Influencia del tratamiento superficial. XXXI Reunión Bienal de la Real Sociedad Española de Física y Primer Encuentro Ibérico para la enseñanza de la Física. Comunicaciones científicas, 2007. ISBN 978-84-690-7298-1
4. F.J. Rubio-Hernández, F.J. Galindo-Rosales, J.F. Velázquez-Navarro. *Thixotropic characterization of fresh cement pastes*. Annual Transactions of The Nordic Rheology Society, Vol. 15, 2007. ISBN 978-952-15-1785-3
3. F.J. Galindo-Rosales, F.J. Rubio-Hernández. *The influence of the suspending phase on the rheological behaviour of Aerosil R805 suspensions*. Annual Transactions of The Nordic Rheology Society, Vol. 15, 2007. ISBN 978-952-15-1785-3

2. F.J. Galindo-Rosales, F.J. Rubio-Hernández, J.F. Velázquez-Navarro. *Rheological study on the aging process in a polymeric fumed silica suspension*. Annual Transactions of The Nordic Rheology Society, Vol. 15, 2007. ISBN 978-952-15-1785-3
1. A.I. Gómez-Merino, F.J. Rubio-Hernández, J.F. Velázquez-Navarro, F.J. Galindo-Rosales, P. Fortes-Quesada. *Correlation between rheological parameters and some colloidal properties of anatase dispersions*. Annual Transactions of The Nordic Rheology Society, Vol. 15, 2007. ISBN 978-952-15-1785-3

SCIENTIFIC PRESENTATIONS

Orals

30. *F.J. Galindo-Rosales*, B. Pires, S. Martínez-Aranda, L. Campo-Deaño (January, 2016). Absorbed energy by shear thickening fluids confined in microfluidic patterns subjected to impact tests. *Flowing matter 2016 (Cost Action, MP1305)*, Porto, Portugal.
29. K. Zografos, P.C. Sousa, F.J. Galindo-Rosales, F.T. Pinho, M.A. Alves, *M.S.N. Oliveira* (December, 2015). Extensional flows of viscoelastic fluids in microfluidic devices. Invited talk in the British Society of Rheology Winter Meeting 2015: Microrheology and Microfluidics, Glasgow, Scotland, UK.
28. S. Martínez-Aranda, F.J. Galindo-Rosales, **L. Campo-Deaño** (July, 2015). "Blood flow dynamics around bioinspired microbots". 6th Iberian Meeting on Colloids and Interfaces (RICI6), Guimarães, Portugal.
27. S. Martínez-Aranda, F.J. Galindo-Rosales, **L. Campo-Deaño** (April, 2015). Complex flow dynamics around 3D microbot prototypes: experimental and numerical study. *Annual European Rheology Conference (AERC)*, Nantes, France.
26. **F.J. Galindo-Rosales**, S. Martínez-Aranda, L. Campo-Deaño (December, 2014). Microfluidic rheo-inforced energy absorbing composites. *Flowing matter 2014 (Cost Action, MP1305)*, Lisbon, Portugal.
25. **L. Campo-Deaño**, S. Martínez-Aranda, F.J. Galindo-Rosales (December, 2014). Complex fluid dynamics of swimming microbots. *Flowing matter 2014 (Cost Action, MP1305)*, Lisbon, Portugal.
24. **F.J. Galindo-Rosales**, L. Campo-Deaño (October, 2014). CORKSTFLUIDICS - Compuestos viscoelásticos de corcho diseñados para la absorción de energía en impactos. *Jornadas científicas sobre a cortiça e suas aplicações*, Porto, Portugal.
23. **S. Martínez-Aranda**, F.J. Galindo-Rosales, L. Campo-Deaño (October, 2014). Design of an experimental setup for the study of the effect of swimming microbot's morphology on the complex fluids flows in microchannels. *86th Annual Meeting of the Society of Rheology (SOR2014)*, Philadelphia, USA.
22. F.J. Galindo-Rosales, **J.P. Segovia-Guitérrez**, F.T. Pinho, M.A. Alves, J. de Vicente (July, 2014). A novel approach for the extensional characterization of

- ferrofluids and MR fluids. *14th International Conference on Electrorheological Fluids and Magnetorheological Suspensions (ERMR2014)*, Granada, Spain.
21. **F.J. Galindo-Rosales**, J.P. Segovia-Guitérrez, F.T. Pinho, M.A. Alves, J. de Vicente (April, 2014). Non-linear behaviour of ferrofluids and magnetorheological fluids subjected to extensional flow and magnetic field simultaneously. *XIX Congreso de Física Estadística (FisEs14)*, Ourense, Spain.
 20. F.J. Galindo-Rosales, **J.P. Segovia-Guitérrez**, F.T. Pinho, M.A. Alves, J. de Vicente (April, 2014). Extensional characterization of ferrofluids and magnetorheological fluids. *9th Segunda Reunión de Jóvenes Investigadores en Coloides e Interfases (JICI2)*, Granada, Spain.
 19. F.J. Galindo-Rosales, J.P. Segovia-Guitérrez, **F.T. Pinho**, M.A. Alves, J. de Vicente (April, 2014). Extensional rheometry of magnetic dispersions. *9th Annual European Rheology Conference (AERC)*, Karlsruhe, Germany.
 18. **F.J. Galindo-Rosales**, S.J. Haward, M.A. Alves (September, 2013). Velocity overshoots in rectilinear microchannels *Iberian Meeting on Rheology (IBEREO)*, Málaga, Spain.
 17. F.J. Galindo-Rosales, M.A. Alves, **M.S.N. Oliveira** (July, 2013). Optimisation of microfluidic devices for extensional rheometry *VI Brazilian Conference on Rheology*, Rio de Janeiro, Brazil.
 16. V.M. Ribeiro, P.C. Sousa, P.M. Coelho, F.J. Galindo-Rosales, L. Campo-Deaño, M.S.N. Oliveira, M.A. Alves, **F.T. Pinho** (June, 2013). Viscoelastic instabilities in microscale flows. Plenary Lecture in the *8th World Congress on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics*, Lisbon, Portugal.
 15. **F.J. Galindo-Rosales**, M.S.N. Oliveira, M.A. Alves (April, 2013). Optimized cross-slot microdevices for extensional rheometry. *8th Annual European Rheology Conference (AERC)*, Leuven, Belgium.
 14. F.J. Galindo-Rosales, M.S.N. Oliveira, **M. A. Alves** (September, 2012). Design of optimized microfluidic T-channels for extensional rheology. *6th European Congress on Computational Methods in Applied Sciences And Engineering (ECCOMAS 2012)*, Vienna, Austria.
 13. P.C. Sousa, A.M. Afonso, F.J. Galindo-Rosales, L. Campo-Deaño, M.S.N. Oliveira, M. A. Alves, **F. T. Pinho** (September, 2012). Microfluidics with non-Newtonian fluids. Plenary Lecture in the *9th European Fluid Mechanics Conference*, Rome, Italy.
 12. F.J. Galindo-Rosales, M.S.N. Oliveira, **M. A. Alves** (August, 2012). Design of optimized microfluidic devices for application in extensional rheology. Keynote in the *XVI International Congress on Rheology*, Lisbon, Portugal.
 11. **F.J. Galindo-Rosales**, M. A. Alves, M.S.N. Oliveira (August, 2012). A novel use for the cross-slot microfluidic device in extensional micro-rheometry. *XVI International Congress on Rheology*, Lisbon, Portugal.

10. P.C. Sousa, A.M. Afonso, L. Campo-Deaño, F.J. Galindo-Rosales, M.S.N. Oliveira, M. A. Alves, **F. T. Pinho** (May, 2012). Microfluidics with complex fluids. Plenary Lecture in the *IV Conferência Nacional Em Mecânica dos Fluidos, Termodinâmica e Energia (MEFTE2012)*, Lisbon, Portugal.
9. **L. Campo-Deaño**, F.J. Galindo-Rosales, M.S.N. Oliveira, M. A. Alves, F. T. Pinho (August, 2011). Boger Fluids through hyperbolic contraction microchannels. *3rd Micro and Nano Flows Conference (MNF2011)*, Thessaloniki, Greece.
8. **F.J. Galindo-Rosales**, L. Campo-Deaño, M.S.N. Oliveira, M. A. Alves, F. T. Pinho, E. v. Bokhorst, P. J. Hamersma (August, 2011). Microchannels analogues for the study of viscoelastic fluid flows through porous media. *3rd Micro and Nano Flows Conference (MNF2011)*, Thessaloniki, Greece.
7. **F.J. Galindo-Rosales**, F.J. Rubio-Hernández.(August, 2008). Transient study on the shear thickening behaviour of surface modified fumed silica suspensions in polypropylene glycol. *The XV International Congress on Rheology*, Monterey, California, USA.
6. **F.J. Galindo-Rosales**, F.J. Rubio-Hernández, A. Sevilla-Santiago (September, 2008). Experimental, theoretical and numerical rheology of Aerosil fumed silica suspensions in polypropylenglycol. *Iberian Meeting on Rheology (IBEREO)*, Madrid, Spain.
5. **J.F. Velázquez-Navarro**, F.J. Rubio-Hernández, F.J. Galindo-Rosales (September, 2008). Static and Dynamic Yield Stress of Self-Compacting Concrete Equivalent Mortars. *Iberian Meeting on Rheology (IBEREO)*, Madrid, Spain.
4. **F.J. Rubio-Hernández**, J.F. Velázquez-Navarro, F.J. Galindo-Rosales (September, 2008). The Influence of Some Additives on the Rheological Behaviour of a Fresh Cement Paste. *Iberian Meeting on Rheology (IBEREO)*, Madrid, Spain.
3. **F.J. Rubio-Hernández**, F.J. Galindo-Rosales, J.F. Velázquez-Navarro. (June, 2007). Thixotropic characterization of fresh cement pastes. *Nordic Rheology Conference (NRC 2007)*, Stavanger, Norway.
2. **F.J. Galindo-Rosales**, F.J. Rubio-Hernández.(June, 2007). The influence of the suspending phase on the rheological behaviour of Aerosil R805 suspensions. *Nordic Rheology Conference (NRC 2007)*, Stavanger, Norway.
1. **F.J. Galindo-Rosales**, F.J. Rubio-Hernández.(September, 2007). Comportamiento reológico de suspensiones no acuosas de dióxido de silicio pirogénico. Influencia del tratamiento superficial. *XXXI Reunión Bienal de la RSEF.*, Granada, Spain.

Posters

36. **J. Calejo**, D. Pinho, V. Garcá, F.J. Galindo-Rosales, R. Lima, L. Campo-Deaño. "Visualization of a PMMA blood analogue fluid flowing through a hyperbolic microchannel". 6th Workshop on Green Chemistry and Nanotechnologies in Polymer Chemistry held in Bragança, Portugal (July, 2015).

35. **F.J. Galindo-Rosales**, S. Martínez-Aranda, L. Campo-Deaño (April, 2015). CorkSTF μ fluidics - A new approach for the development of energy absorbing composites based on shear thickening fluids. *Annual European Rheology Conference (AERC)*, Nantes, France.
34. **S. Martínez-Aranda**, F.J. Galindo-Rosales, L. Campo-Deaño (October, 2014). Numerical study of the influence of the swimming microbots morphology in a blood analogue fluid flow. *86th Annual Meeting of The Society of Rheology (SOR)*, Philadelphia, USA.
33. **S. Martínez-Aranda**, L. Campo-Deaño, F.J. Galindo-Rosales (October, 2014). Numerical study of the flow of a shear thickening fluid expelled out from a cell. *86th Annual Meeting of The Society of Rheology (SOR)*, Philadelphia, USA.
32. J. Calejo, **R. Rodrigues**, T. Yaginuma, F.J. Galindo-Rosales, L. Campo-Deaño, R. Lima (July, 2014). Development of simplified rheological and physiological blood analogue solutions. *7th World Congress on Biomechanics (WCB)*, Boston, USA.
31. **F.J. Galindo-Rosales** (April, 2014). Development of eco-friendly advanced energy absorbing composites. *XIX Congreso de Física Estadística (FisEs14)*, Ourense, Spain.
30. L. Verhoeff, **F.J. Galindo-Rosales**, L. Campo-Deaño, R. Dullens, D. Aarts (April, 2014). Thermal capillary waves in colloid-polymer mixtures - static and dynamic correlations functions. *XIX Congreso de Física Estadística (FisEs14)*, Ourense, Spain.
29. S.J. Haward, F.J. Galindo-Rosales, **P. Ballesta**, M.A. Alves (April, 2014). Flow of wormlike micellar solutions in rectangular microchannels. *9th Annual European Rheology Conference (AERC)*, Karlsruhe, Germany.
28. **F.J. Galindo-Rosales**, S.J. Haward, M.A. Alves (April, 2013). Non-monotonic fully-developed velocity profiles in rectangular channels. *8th Annual European Rheology Conference (AERC)*, Leuven, Belgium.
27. T. Dinis, J.R. Rodriguez, A. Sevilla, R. Lima, L. Campo-Deaño, **F.J. Galindo-Rosales** (April, 2013). Converting makeup foams into energy absorbing padding. *8th Annual European Rheology Conference (AERC)*, Leuven, Belgium.
26. J. Calejo, J.R. Rodriguez, A. Sevilla, R. Lima, F.J. Galindo-Rosales, **L. Campo-Deaño** (April, 2013). Two-phase viscoelastic blood analogues through planar stenosis microchannel. *8th Annual European Rheology Conference (AERC)*, Leuven, Belgium.
25. M. Masoudian, L. Campo-Deaño, **F.J. Galindo-Rosales**. (August, 2012). Numerical analysis of shear thickening fluid flow through 90° elbow pipe. *XVI International Congress on Rheology*, Lisbon, Portugal.
24. **F.J. Galindo-Rosales**, L. Campo-Deaño, F.T. Pinho, M.S.N. Oliveira, M. A. Alves. (August, 2012). Assessing the flow of low viscosity Boger-like fluids through microfluidic analogues of porous medium. *XVI International Congress on Rheology*, Lisbon, Portugal.

23. **F.J. Galindo-Rosales**, R.H. Ewoldt. (August, 2012). Structural model for the transient response of shear thickening fluids. *XVI International Congress on Rheology*, Lisbon, Portugal.
22. L. Campo-Deaño, **F.J. Galindo-Rosales**, F.T. Pinho, M. A. Alves, M.S.N. Oliveira. (August, 2012). Study on the blockage mechanism in low viscosity Boger-like fluid flow through unconsolidated beds. *XVI International Congress on Rheology*, Lisbon, Portugal.
21. **F.J. Galindo-Rosales**, L. Campo-Deaño, F.T. Pinho, M.S.N. Oliveira, M. A. Alves. (September, 2011). Numerical analysis of Microfluidic Systems Analogue of Porous Media (MSAPM) for Newtonian and low viscous Boger fluid flows. *3rd Iberian Rheology Meeting (Ibereo2011)*, Caparica, Portugal.
20. L. Campo-Deaño, **F.J. Galindo-Rosales**, F.T. Pinho, M. A. Alves, M.S.N. Oliveira. (September, 2011). Gel formation of low viscous Boger fluids under high shear and extensional strain rate flow conditions. *3rd Iberian Rheology Meeting (Ibereo2011)*, Caparica, Portugal.
19. **F.J. Galindo-Rosales**, J. Vermant, P. Moldenaers. (December, 2009). Assessment of Dispersion Quality by Rheological Tests. *BSR Midwinter Meeting, The Flow of Soft Matter*, Edinburgh, Scotland, UK.
18. **F.J. Galindo-Rosales**, F.J. Rubio-Hernández.(August, 2008). Numerical simulation in steady flow of Newtonian and shear thickening fluids in pipes with circular cross-section. *The XVth International Congress on Rheology*, Monterey, California, USA.
17. **F.J. Rubio-Hernández**, J.F. Velázquez-Navarro, F.J. Galindo-Rosales (2008). Comportamiento reológico de morteros equivalentes autocompactantes. 1^o Congreso Español sobre Hormigón Autocompactante, Valencia, Spain.
16. **A. I. Gómez-Merino**, F. J. Rubio-Hernández, J. F. Velázquez-Navarro, F.J. del Pino, and F. J. Galindo-Rosales (October, 2007). Correlation between the rheological parameters and some colloidal properties of ceramic oxides in water-alcohol dispersions. International Soft Matter Conference. Eurogress Aachen, Germany.
15. **A. I. Gómez-Merino**, F. J. Rubio-Hernández, J. F. Velázquez-Navarro, C. Yoke, and F. J. Galindo-Rosales (October, 2007). Effect of ionic strength and liquid phase on the electrokinetic properties of ceramic colloids. International Soft Matter Conference. Eurogress Aachen, Germany.
14. F.J. Rubio-Hernández, J. Escobar Miguel, J.F. Velázquez-Navarro, **F.J. Galindo-Rosales**. (September, 2007). El lazo tixotrópico. Aplicación al estudio de una pasta de cemento autocompactante. *XXXI Reunión Bienal de la RSEF.*, Granada, Spain.
13. A.I. Gómez-Merino, F.J. Rubio-Hernández, J.F. Velázquez-Navarro, **F.J. Galindo-Rosales**, P. Fortes-Quesada. (June, 2007). Correlation between rheological parameters and some colloidal properties of anatase dispersions. *Nordic Rheology Conference (NRC 2007)*, Stavanger, Norway.

12. **F.J. Galindo-Rosales**, F.J. Rubio-Hernández, J.F. Velázquez-Navarro. (June, 2007). Rheological study on the aging process in a polymeric fumed silica suspension. *Nordic Rheology Conference (NRC 2007)*, Stavanger, Norway.
11. **F.J. Galindo-Rosales**, J. Ortega Casanova, F.J. Rubio-Hernández. (April, 2007). Numerical simulation of the flow conditions in three conventional sensor systems. Application to a thixotropic fluid. *4th Annual European Rheology Conference(AERC 2007)*, Naples, Italy.
10. **F.J. Galindo-Rosales**, J. C. Majeste; F.J. Rubio-Hernández. (April, 2007). Viscoelastic characterization of HDPE composites based on two different surface modified fumed silica. *4th Annual European Rheology Conference(AERC 2007)*, Naples, Italy.
9. A.I. Gómez-Merino, F.J. Rubio-Hernández, J.F. Velázquez-Navarro, J. C. Yoke, **F.J. Galindo-Rosales**. (April, 2007). The effect of specifically adsorbed ions on the rheology of water-alcohol titanium oxide dispersions. *4th Annual European Rheology Conference(AERC 2007)*, Naples, Italy.
8. J.F. Velázquez-Navarro, F.J. Rubio-Hernández, **F.J. Galindo-Rosales**, A.I. Gómez-Merino. (April, 2007). Rheological characterization of SCC's equivalent mortars. *4th Annual European Rheology Conference(AERC 2007)*, Naples, Italy.
7. **F.J. Galindo-Rosales**, F.J. Rubio-Hernández. (April, 2006). Rheological characterization of Aerosil R805 polymeric dispersions with time dependent behaviour. *4th Annual European Rheology Conference(AERC 2007)*, Naples, Italy.
6. A.I. Gómez-Merino, F.J. Rubio-Hernández, J.F. Velázquez-Navarro. **F.J. Galindo-Rosales**.(April, 2006). Some rheological properties of anatase suspensions. *3rd Annual European Rheology Conference (AERC 2006)*, Hersonisos, Crete, Greece.
5. **F.J. Galindo-Rosales**, F.J. Rubio-Hernández, A.I. Gómez-Merino, J.F. Velázquez-Navarro. (April, 2006). Rheological characterization of suspensions of different surface modified silica fumed in polypropylene glycol of molecular weight 2000g/mol. *3rd Annual European Rheology Conference (AERC 2006)*, Hersonisos, Crete, Greece.
4. **F.J. Galindo-Rosales**, F.J. Rubio-Hernández, J.F. Velázquez-Navarro, A.I. Gómez-Merino. (April, 2006). The influence of the liquid phase on the rheological properties of AerosilR805 suspensions. *3rd Annual European Rheology Conference (AERC 2006)*, Hersonisos, Crete, Greece.
3. J.F. Velázquez-Navarro, **F.J. Galindo-Rosales**, F.J. Rubio-Hernández, J.F. Velázquez-Navarro, A.I. Gómez-Merino. (April, 2006). Yield stress in aqueous fumed silica sols. *3rd Annual European Rheology Conference (AERC 2006)*, Hersonisos, Crete, Greece.
2. **F.J. Galindo-Rosales**, F.J. Rubio-Hernández, A.I. Gómez-Merino. (April, 2005). Influence of some measurement parameters on the thixotropic behaviour of bentonite suspensions. *2nd Annual European Rheology Conference (AERC 2005)*, Grenoble, France.

1. A.I. Gómez-Merino, F.J. Rubio-Hernández, **F.J. Galindo-Rosales**. (April, 2005). Rheological behaviour of anatase suspensions in water-ethanol mixtures. *2nd Annual European Rheology Conference (AERC 2005)*, Grenoble, France.

PATENTS

2. Patent requested: “Apparatus for application of magnetic field in extensional magneto-rheology”. Instituto Nacional da Propriedade Industrial. N 20141000087981, COD0198 (2014-2015). F.J. Galindo-Rosales, J.P. Segovia-Gutiérrez, F.T. Pinho, M.A. Alves, J. de Vicente.
1. Patent requested: “Composite layer material for dampening external load, obtaining process, and uses thereof”. PCT/IB2015/057399 (2015). F.J. Galindo-Rosales, L. Campo-Deaño.

RELEVANT ATTENDED COURSES¹

- **Business Ignition Program** , January-April 2015 (144h).
Universidade do Porto Inovação, Porto (Portugal).
- **Combined methods in Rheology** , September 2013 (4h).
Iberian Meeting on Rheology, Málaga (Spain).
- **Colloidal Suspension Rheology**, August 2012 (16h).
XVIIth International Congress on Rheology, Lisbon (Portugal).
- **Non-linear viscoelastic measurements, LAOS and interfacial rheology**, September 2011 (4h).
Iberian Meeting on Rheology, Lisbon (Portugal).
- **12th European School on Rheology**, September 2009 (40h).
Katholieke Universiteit Leuven, Leuven (Belgium).
- **Curso Práctico de Reología**, October 2007 (20h).
University of Málaga, Málaga (Spain).
- **Course on emulsions and suspensions Rheology**, June 2007 (20h).
Nordic Rheology Conference, Stavanger (Norway).
- **Rheological modeling of structured liquids short course**, April 2007 (20h).
Annual European Rheology Conference, Naples (Italy).
- **Curso de Reología Práctica** (Course on Applied Rheology), July 2006 (20h).
University of Málaga, Málaga (Spain).
- **Viscoelasticidad y Reología aplicadas a la caracterización de materiales**, May 2005 (7h).
TA Instrument, Sevilla (Spain).

¹Short selection among more than 20 courses .

- **Introduction to Measurement Techniques**, October 2004 (30h).
Von Karman Institute for Fluid Dynamics, Brussels (Belgium).

ACADEMIC & PROFESSIONAL MEMBERSHIPS

- Member of the Organizing Committee of the 4th *Iberian Meeting on Rheology (IBEREO 2013)* to be held in Málaga, September 2013.
- Member of the *Real Sociedad Española de Física* since April 2013.
- Member of the *Grupo Español de Reologia* since April 2013.
- Member of the *Society of Rheology of the American Institute of Physics* since February 2012.
- Member of the Organizing Committee of the 2nd *National ANICT Symposium (ANICT 2011)* hold in Porto, September 2011.
- Member of the *Associação Nacional de Investigadores em Ciência e Tecnologia (ANICT)* since June 2011.
- Member of the *Colegio Oficial de Ingenieros Industriales de Andalucía Oriental* since September 2004.

PERSONAL SKILLS

- **Languages**
 - Spanish. *Mother tongue.*
 - English. *Fluency - C1.* Escuela Oficial de Idiomas (5 years).
 - Portuguese. *Fluency.* C1 - Diploma Avançado de Português Língua Estrangeira (Instituto Camões) & C2.2 Curso Anual de Português para Estrangeiros (60h - Faculdade de Letras da Universidade do Porto)
 - French. *Elementary - A1.*
- **Devices**
 - Rheometers: Anton Paar MCR301, Haake CaBER-1, Haake VT550, Haake RheoStress 600, Bohlin Gemini 150, ARES Strain and Stress Controlled Rheometers (ARES-G2, AR-2000Ex, AR-G2), Linkam, ExAVS310 Schott Gerate and Brookfield Digital Viscometer DV-II;
 - Surface tension: Kruss Interfacial Tensiometer and KSV Instruments Ltd. optical drop profiling for surface/interface analysis;
 - Optical equipments: Philips XL30 Field-emission scanning electron microscope (SEM), Zeiss Exciter Laser Scanning Confocal Microscope, Dantec Dynamics microfluidic Particle Image Velocimetry (μ PIV); ALV/CGS-3 Goniometer for Dynamic Light Scattering (DLS) and Turbiscan MA 2000 profilometer for multiple light scattering measurement.

- **Softwares**

- Operating systems: MacOS, Windows, Linux and MsDOS.
- CFD: Fluent, Fortran, OpenFoam, Gerris.
- Mathematics: Matlab, MathCad, Mathematica.
- Graphs and Design: OriginLab, TecPlot, AutoCad (2D & 3D), Corel Draw.
- Others: Latex, Microsoft Office (Word, Excel, Access, Front Page and Power Point), Microsoft Project.