Francisco R. Gálvez Díaz-Rubio

Aeronautical Engineer, Universidad Politécnica de Madrid (1995)
Phd. Universidad Politécnica de Madrid (1999)
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Catedrático de Universidad / Full Professor,
Departamento de Ciencia de Materiales / Department of Materials Science
Escuela Tecnica Superior de Ingenieros de Caminos Canales y Puertos, / Civil Engineer School
Universidad Politécnica de Madrid (UPM), Spain

Scientific index

- sexenios (4 de Investigation + 1 de trasferencia)
- quinquenios docentes
- h-index: 24 (Google Scholar).
- i10 index: 47 (Google Scholar).
- 2328 Citation index:
- Supervisor of 7 Phd. /(6 finalizadas + 1 en curso)

Management

- Secretary of Department, UPM (2009-2016)
- Director of Studies. Master and bachelor of Materials Science (2016-2019)
- Director of Department, UPM (2018-today)

RESUMEN LIBRE DEL CURRÍCULUM

Teaching and research activity has always been carried out in the Department of Materials Science since 1997, initially with an FPI scholarship (1997-2000), and later with different teaching contracts. The doctoral thesis was awarded as the best thesis of the Polytechnic University of Madrid in the school of Aeronautical Engineering in 1999. Enjoyed a 4 month stay abroad at SwRI Texas while completing my PhD thesis in 1998. Teaching contracts starts in 2000 with assistant professor. Became permanent Professor in 2003 and full permanent professor in 2020.
During this period I have been teaching mainly on Physics and Mechanics of Materials in the degree of Civil Engineer, and the Materials Engineering degree. The main activity had been focused on the subjects Instrumentation Applied to Engineering Measurements, Plastic Behavior of Materials and Dynamic Behavior of Materials, as well as Mechanics of Materials III (taught in English). In the master's degree in Materials Engineering, in Mechanical Behavior of Materials and Dynamic Behavior and Impact (both taught in English).
The research activity has focused on the study of the behaviour of materials at deformation speed. The main lines of research are the study of materials in severe conditions, under impact and explosions, as well as the response of structures and impact resistance. As research results, there is participation in 20 competitive research projects (8 international and 12 national), and more than 50 research projects funded by companies. Publication figures are around 50 indexed and around 50 non-indexed SCI publications, and has more than 90 conference contributions. One teaching book published: F. Galvez *Plastic Behaviour of Materials*. Ed. García Maroto Editores (2017) ISBN: 978-84-16806-41-6

Supervised Phd Thesis

- *Nathamar Valenthina Dudamell Caballero. High Strain-Rate Behavior of Magnesium Alloys. UCM. December 2012.*
- *Borja Erice Echávarri. Flow and Fracture Behaviour of High Performance Alloys. UPM. December 2012.*

- *María Jesús Pérez Martín. Dynamic Fracture of High-Strength Metallic Alloys: Experiments and Modelling. UPM. July 2017.*
- *Rafael Casas Ferreras. Design of high temperature cobalt-based alloys processed by powder metallurgy route. October 2018,*
- *Víctor Rey de Pedraza Ruiz, Mechanical Characterization of Tensile Behaviour of Concrete Under High Strain Rates. March 2019.*
- *Rafael Sancho Cadenas. Mechanical Behaviour and Simulation of Alloys Used in Jet Engines November 2020.*
- *Andrea Cardeña Diaz. High strain rate behaviour of Ti Lattice structures printed in 3D. Ongoing Phd.*

Bachelors and Mater Thesis

Director of 70 bachelors thesis in the degree of Bachelor in Materials Science (UPM)
Director of 18 master thesis in the degree of Master in Materials Science (UPM)

Other merits

- *Member of the Board of the International Ballistics Comitee (2007-2011).*
- *Founding Member of the International Ballistics Society (2011-today).*
- *Chairman of the Student Comitee de la International Ballistics Society (2013-2020).*
- *Member of the Governing Board de la European association for the promotion of research into the dynamic behaviour of materials and its applications DYMAT (2012-today).*
- *Member y and Treasurer de la Sociedad Española de Integridad Estructural, Grupo español de fractura GEF (2015-2019).*
- *President of the Sociedad Española de Integridad Estructural, Grupo Español de Fractura GEF (2019-actualidad).*
- *Vice President of the European association for the promotion of research into the dynamic behaviour of materials and its applications DYMAT (2018-2021).*
- *President of the European association for the promotion of research into the dynamic behaviour of materials and its applications DYMAT (2021-today).*

Organizer of conferences:

- *51th Aeroballistic Range Association, Madrid, 17-21 September 2000, Madrid*
- *23rd International Symposium on Ballistics, April 2007. Tarragona.*
- *25 Encuentro del Grupo Español de Fractura, 5-7 march 2008, Sigüenza, Guadalajara.*
- *67th Aeroballistic Range Association, 3-6 October 2016. Toledo, Spain*
- *37 Congreso del Grupo Español de Fractura, 7-8 June 2021, Conference online.*
- *13th International Conference on Mechanical and Physical Behaviour of Materials under Dynamic Loading, DYMAT2021, 20-24 September, 2021. Madrid, Spain*
- *2nd Mediterranean Conference on Fracture and Structural Integrity, MedFract2, February 14-16, 2022, Catania (Italy) & Web*