

## JESÚS SANTAMARÍA ANTONIO

Doctor in Chemistry with honors (1974) at the Complutense University of Madrid, Fulbright postdoctoral at UC Irvine (1975-77) and NATO fellow at Cornell University (1984). Associate Professor (1978-82), and since 1983 Professor of Physical Chemistry at the Complutense U.

Starting in 1977 he built up a research group on Theoretical and Computational Methods on Chemical Dynamics, applying simulation techniques to study chemical reactions (by quasiclassical trajectories) and molecular liquid structures (by Monte Carlo and Molecular Dynamics). He has maintained long collaborations and protracted stays, with research groups at the Universities of Cornell (1980-87), UC London (1989-90), Irvine (1990-92), and Florence (2003-11). Those activities have been funded by Spanish Ministry of Education (since 1982 uninterrupted), NSF-USA (1980-84), Joint USA-Spain Committee (1985-88), Acciones Integradas (1989-96), and European Science Foundation Networks (2003-2011). He has been Advisor of more than ten Ph.D. Thesis and many Master Thesis. His results have been published in leading journals of the field (*J. Chem. Phys.*, *J. Phys. Chem.*, *Phys. Rev. Lett.*). He has written several books, monographs and chapters on Simulation Methods, Femtochemistry and Spectroscopy of Atmospheres.

His research interest has evolved from classical simulation methods, including nonlinear dynamics for overtone Spectroscopy, and atmospheric studies on pollution, to quantum dynamical ones (wavepacket propagation) to study coherent ultrafast processes (Femto and Attochemistry) and quantum control in chemical reactivity and spectroscopy. He has organized several International Congresses (Femto5 in Toledo, 2005 and Femto10 in Madrid, 2010), symposia and summer courses.

He has been involved in other activities: General Secretary of Spanish Society of Chemistry (1983-86), Dean of the Complutense Faculty of Chemistry (1998-2006), Member of the Directive Council of Florence LENS lab (2004-11), Professor within the European Doctorate on Spectroscopy of Florence (2008-10). Coordinator of ASC Master Mundus on Advanced Spectroscopy (2006-2014), General Secretary of the Royal Spanish Academy of Science (since 2014).