

## MARIE-LOUISE SABOUNGI

### SPECIALIZATION

Condensed Matter Physics / Materials Physics / Nanosciences

### EMPLOYMENT

Researcher at the IMPMC, Université Pierre et Marie Curie, Paris, France	2011-present
Distinguished Professor, Physics, University of Orléans, France	2001-present
Director, Centre de Recherche sur la Matière Divisée, CNRS, Orléans, France	2001-2011
Program Officer, Agence Nationale de la Recherche, Paris, France	2007-2011
Senior Scientist, Argonne National Laboratory, Argonne, IL USA	1973-2002

### EDUCATION

Université Aix-Marseille, France: Doctorat d'Etat Es-Sciences, Physics	1973
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### SERVICE

Associate Editor, Applied Physics Letters	2015-present
NSF Review of Centre High Resolution Neutron Scattering, NIST, USA	2015
Advisory Board of The European Council of FET-Horizon 2020	2014-present
Leader, <i>Materials, Energy, Geosciences</i> Thrust Area, University of Orléans	2008-2011
Scientific Council, University of Orléans	2008-2011
U.S. DOE Panel on <i>Energy Frontier Research Centers</i>	2009
Executive Committee, Forum on International Physics, American Physical Society	2008-2011
French Ministry of Research and Higher Education Working Group on <i>Major Facilities for Materials and Engineering</i>	2007-2008
U.S. DOE Panel on <i>Basic Research for Solar Energy Utilization</i>	2007
U.S. DOE Panel on <i>Basic Research for the Hydrogen Economy</i>	2007
Editorial Advisory Board: Journal of Experimental Nanoscience	2007-present
Director, French Collaborative Access Team for Région Centre/SOLEIL	2005-2007
Co-Chair, <i>Innovative Nanoscale Approach to Dynamic Studies of Materials</i> , Okinawa, Japan	2006
U.S. National Nanotechnology Initiative Workshop: <i>X-rays and Neutrons: Essential Tools for Nanoscience Research</i>	2005
U.S. DOE Panel on <i>Hydrogen Fuel Initiative</i>	2005
French National Committee for the Promotion of Professors	2004-2008
Review Committee for CNRS Research Laboratories	2004
Joint DCMP/DMP Focused Session on Multiscale dynamics, relaxation and charge transport in polymers, APS Meeting, Seattle, WA	2001
Conference <i>Structure, Dynamics and Charge Transport in Polymers</i> ANL	2000
Chair, Max Bredig Award Committee, The Electrochemical Society	1998
NSF Advisory Panel for Materials Research Science and Engineering Centers	1995-1996
President, Chicago Chapter, Association of Women in Science	1991-1992
Gordon Research Conference, Liquid Metals and Molten Salts, Wolfeboro, New Hampshire, (Chair and Vice-chairman)	1989, 1987
Editorial Advisory Board CALPHAD	1982-1994

### HONORS

Visiting Distinguished Professor, Soochow University, China	2014-present
Fellow Japanese Society for the Promotion of Science, Japan	2000, 2014
Fellow, Alexander von Humboldt Foundation, Germany	2007
Visiting Professor, University Chicago, The James Franck Institute	2003
Award for Leadership in the Professions, YWCA of Metropolitan Chicago	1991
Fellow, American Physical Society	1988
Fellow, American Association for the Advancement of Science	1987

## PATENTS

*Nouveaux matériaux à propriétés bactériostatiques*, R. Benoit, M-L Saboungi, & F. Brulé, France No. 0800570, issued April 2, 2007

*Matériau composite constitué par une matrice poreuse et des nanoparticules de métal ou d'oxyde de métal*, R. Benoit, M. Tréguer-Delapierre, M-L Saboungi, International n° 0501879, issued February 1, 2006

*Method for synthesizing extremely high-temperature melting materials*, M-L Saboungi, B. Glorieux, US 6,967,011B1, issued November 22, 2005

*Large magnetoresistance in non-magnetic silver chalcogenides and new class of magnetoresistive compounds*, M-L Saboungi, D. L. Price, T. F. Rosenbaum, R. Xu, A. Husmann, US 6,316,131B1, issued November 13, 2001

## SUMMARY OF RESEARCH ACTIVITIES

Marie-Louise Saboungi is Distinguished Professor of Physics of the French Universities and shares her research in condensed matter physics between the University of Orleans, the CNRS and the Pierre et Marie Curie University in Paris. She served as Director of a research institute under the auspices of the CNRS and the University of Orleans for 10 years, as Co-Director of the Materials, Energy and Geosciences Thrust Area at University of Orleans for five years and as a Research and Education Minister nominee of the National Committee for the promotion of the Associate and Assistant Professors of the French Universities. Prior to that she was a Senior Scientist at Argonne National Laboratory, where she established close collaborations with the University of Chicago's James Franck Institute and with Cornell University's Food Sciences Department. She has over 270 publications, 5 patents and directed the work of 14 PhD candidates. She is a Fellow of the American Association for the Advancement of Science, the American Physical Society and the Alexander von Humboldt Foundation, from which she received the Helmholtz-Humboldt Prize in 2008. She has served on international advisory committees as well as national committees in the U.S. for the Department of Energy and the National Science Foundation, in France for the CNRS, ANR and AERES, and in the European Community where she is a member of the Advisory Board of the FET-Horizon 2020.

She has organized and chaired over fifty international conferences and workshops including two Gordon Research Conferences in the U.S. She participated in the Association of Women in Science and received an Award for Leadership in the Professions from the YWCA of Metropolitan Chicago.

She is a Distinguished Visiting Professor in Soochow University, has twice been recipient of senior fellowships from the Japan Society for the Promotion of Science and a research fellowship from the Ikerbasque Foundation in Spain. She has served on the Executive Committee of the Forum for International Physics of the American Physical Society, the European Physical Society and has collaboration with scientists in China, Germany, Greece, Romania, Serbia, Spain and the U.K. She is a member of the governing board of a Franco-Peruvian association, Puya de Raimondi, and has lectured and served as a mentor in several Latin American countries.

At present she is involved in investigating complex soft materials with a special interest in the thermal, magnetic and biomedical properties of functionalized nano-materials with a view to applications in energy and biotechnology.