

## **CURRICULUM VITAE : ELVIRA MASCOLO-2015**

Graduated in Mathematics *summa cum laude* in June 24, 1976 at the University of Naples.

### **Academic positions**

- C.N.R. fellowship (1977-1978) at the University of Salerno.
- Lecturer (1979-1981) at the University of Calabria.
- Assistant Professor (1980-1985) and Associate Professor (1985 -1988) at the University of Salerno.
- Associate Professor (1988-2001) at the University of Firenze.
- Actually Full Professor of Mathematical Analysis (MAT /05) at the University of Firenze, Department of Mathematics "Ulisse Dini".

### **Teaching experiences**

- Mathematical Analysis, Function Theory, Functional Analysis and Calculus of Variations, Master in Mathematics.
- Calculus, Master in Biological Sciences.
- Supervisor of numerous Master dissertations and some PhD thesis.
- PhD courses, also abroad, of Calculus of Variations and Partial Differential Equations.

### **Research interests**

Author of 48 articles, including articles in international journals and in Proceedings of Congresses, concerning many aspects and problems in Partial Differential Equations and Systems and Calculus of Variations and in particular:

- Regularity questions of solutions with anisotropic,  $p$ - $q$  and general growth condition.
- Topics of research concerned the semicontinuity for quasiconvex and polyconvex functionals.
- Existence of solutions for non convex and non polyconvex functionals.

### **Scientific collaborations with foreign institutions**

Visiting professor at School of Mathematics, Minneapolis (USA), Universidad

National, Tucuman,(AR) Universidad Austral, Rosario (AR), Universidad, San Luis and Mendoza (AR). Correspondent of the IMA (Istituto Matematico Argentino) Buenos Aires (AR).

Administrative and organization appointments

-Since February 2002, Scientific Secretary of the CIME-Roberto Conti Foundation, (International Mathematical Summer Center).

Since January 2015 Director of the CIME-Roberto Conti Foundation,

-Since 2002 to 2003 Scientific Coordinator of the project "Mathematical Modeling, Elliptic and Parabolic Equations, Problems with Free Boundary, Integral Functionals" for the development of the cooperation in high scientific and technological formation with Argentina (Italian Minister for the Foreign Affairs).

-Since November 2010 to March 2013, Vice Dean of the Mathematical, Physical and Natural Sciences Faculty of Florence University.

### **Projects for teaching support and popularizing mathematics**

-Since 2002 to 2011 Member of the Committee of OpenLab, structure of the University of Florence, addressed to organize activities for the diffusion of the scientific culture.

-Since November 2001, Collaborator of the "Giardino di Archimede-Un Museo per la Matematica.

### **Conference organization**

Organizer of many Summer Schools and International Conferences such as

-Padova 2014 Workshop on Calculus of Variations and Partial Differential Equations , November 13-14, 2014

Recent invited conferences

INdAM Workshop "Vector-valued mappings and systems of PDE's", Roma May 17-21, 2010.

-INdAM Workshop " Vector-valued mappings and systems of PDE's, Roma, 17-21 Maggio, 2010.

-XXI Convegno Nazionale di calcolo delle Variazioni, Levico 6-11 Febbraio 2011.

-Optimization Days, Università Politecnica delle Marche, Ancona, 6-8 Giugno, 2011

-VII ITLA 2012- VII Congreso Italo-Latinoamericano de Matemática Aplicada e Industrial, Rosario (Argentina), December 17-21, 2012

- Second Workshop on Trends in Nonlinear Analysis, Cagliari, September 24-26, 2015