

## ***CURRICULUM VITAE OF GAETANO ZIPOLI***

Name: Gaetano Zipoli

Date of Birth: 3rd April 1950

Place of Birth: Calenzano (Florence), Italy

Country of Citizenship: Italy

Marital status: married, with two children

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Education: University of Florence, Agricultural Science Faculty, degree in Agrometeorology, 1980

Present position: Research Director at the Institute of Biometeorology of the National Research Council (CNR)  
Researcher with CNR since from 1983

Director of the Laboratory for Meteorology and Environmental Analysis (LaMMA) of Regional Council of Tuscany from 1998

Languages: English, good written and spoken  
French, sufficient spoken

Member of societies: Americal Society of Agronomy  
European Society of Agronomy  
International society of Agrometeorology  
International Society of Biometeorology

## **ACADEMIC EXPERIENCE:**

- 1988 Invited Professor at the European Post-doctoral School of Climatology and Natural Hazards held in Florence during the month of September
- 1988-89 Invited Professor of Agrometeorology and Agroclimatology for the post-graduate course on “Tropical and Sub-tropical Agriculture” at the University of Florence.
- 1989 Contract Professor for a series of seminars on “Use of Remote Sensing for irrigation management” in the course of Irrigation techniques in Arid and semi-arid regions, University of Florence.
- 1989-94 Invited professor of Agroclimatology at the Istituto Agronomico per l’Oltremare (Dept. of Foreign Affairs)
- 1998-99 Scientific coordinator of the WMO Commission of Agricultural Meteorology 1<sup>st</sup> course on “Methodologies for remote sensing and conventional data merging” Florence, march 1999
- 2002-2003 and 2004-2005 Professor of biometeorology at the Master on Applied Meteorology held by the University of Florence.

## **RESEARCH EXPERIENCE:**

- 1977-1978 Tell-Us Project: research assistant in field measurement campaigns for measuring Evapotranspiration in combination with satellite observations.
- 1980-83 Microwave (MW) radiometry and agrometeorology: responsible for the soil moisture project. Use of several types of soil moisture measuring techniques in agricultural fields for correlation with agricultural targets characteristics and MW passive and active detection
- 1984-1988 Crop Energy Balance Approach. During this period I learned the basics of Energy Balance Physics of agricultural targets and how this is related to its water status and, consequently, with its capacity to provide yield. In particular I focused my activity on the relationship between crop energy balance and its water status with the aim of pointing out methods of remote sensing for scheduling irrigation. These projects were performed both in Italy and abroad, in particular during a one year stage at the Water Conservation Laboratory (USDA-ARS) in Phoenix, Arizona, USA.
- 1988-1992 During this period I gained the scientific responsibility of the agrometeorological research projects performed at IATA ranging from irrigation modelling and yield forecast to pest and diseases models for crop protection
- 1992-1996 UV-B Stress. I designed a field apparatus for supplementation of UV-B radiation in order to study in field conditions (mainly in a natural radiative environment) the effects on natural

vegetation as well as on field crops of the depletion of the protecting ozone layer of the stratosphere. Actually the UV-B research team consists of six persons including two technicians.

1994-1996 Coordinator of the Agrometeorological section of the CeSIA-Accademia dei Georgofili Project PEICRE (on behalf of Dept of Foreign Affairs) for the scientific evaluation of the FAO-PIK (Projet Integre Keita) project, Niger

1997-2001 Director of the Laboratory for meteorology and environmental modelling.

2001-2004 Leader of the project “Future Climate scenarios at high spatial and temporal resolution for the assessment of their impact on agriculture” of the Italian Ministry of Agriculture and Forestry.

2004 Invited speaker at the international Congress on Optometry held in Madrid on the item “Solar Ultraviolet radiation and possible risks for the vision”

2005-2007 Active in the field of UV climatology: scientific leader of research projects aimed to characterize the UV radiative regime in various environment (snow, grass, beach)

### **EXPERIENCE IN RESEARCH MANAGEMENT:**

1992-1996 Scientific coordinator of the research area “Monitoring natural resources and functioning of agricultural ecosystems” in the National Special Projects RAISA of CNR.

1993-94 Board of Referee for the CEE Environment Projects on Applied Climatology and Natural Hazards, in Brussels

1991 Delegate at the X Commission of Agricultural Meteorology of WMO, Florence, Italy

1994 National Delegate at the EU Action COST 711 on “Operational applications of Meteorology to Agriculture, including Horticulture” with responsibility of a study contract on “Agrometeorology for pest and diseases modelling of wine and apple”

1995 Principal National Delegate at the Commission of Agrometeorology of WMO. At the Havana (Cuba) meeting I was entrusted as joint rapporteur on “Effects of climate change and climate variability on agriculture and forestry”.

1996 National delegate at the EU Action COST 713 “UV-B Forecasting”

1996-97 Scientific responsible of the Project of Regione Toscana/CNR LaMMA (Laboratory for Meteorology and Environmental Modelling).

1998 Research Director of the Laboratory for Meteorology and Environmental Modelling in the frame of the cooperation between National Research Council and Tuscany Region Government.

1998 Invited expert for WMO in the working group "Agricultural Meteorology" (resolution 8, XII-AR VI) Geneva, 1998

1999 Principal National Delegate at the Commission of Agrometeorology of WMO. At Accra (Ghana) meeting I was encharged as chairman of a working group on "Agroclimatological models"

1999 Project Leader for the project "Evaluation of Meris and Asar imagery for land and sea surface minitoring in the Mediterranean areas" of the ENVISAT/ESA program

1996-2001 National delegate at the EU COST Action 713 "UV-B Forecasting"

2004-2007 National delegate at the EU COST Action 726 "UV climatology"

Research Learder of the IBIMET applied meteorology and climatology group

Scientific director of the Laboratory for meteorology and environmental modelling

Member of the Scientific Board of :

- Institute for Agrometeorology and Environmental Analysis, Florence
- Institute for irrigation, Naples
- Institute for ecophysiology of fruit crops, Bologna
- Institute of Atmospheric Physics, Rome

Author of more than 150 pubblications in english and italian scientific journals and co-author of a book ("Agrometeorologia", Patron ed.)