

CURRICULUM VITAE - Prof. Giampiero Maracchi

Nationality: Italian
Date of birth: 30.5.1943
Military Service: Tenente dei Carabinieri
Languages: French, English - fluently
German, Spanish - slight
Education: Classical secondary school
MSc in Agronomic Sciences

- Full Professor of Agrometeorology and Climatology – Florence University
- President of Accademia dei Georgofili – Florence
- Vice President of UEAA (Union of European Academies for Sciences applied to Agriculture, Food and Nature)
- Vice Presidente of Osservatorio dei Mestieri d'Arte delle Fondazioni Bancarie italiane (OMA).
- President of Fondazione TEMA - Tecnologie per i beni culturali e l'artigianato, promoted by Ente Cassa di Risparmio di Firenze.
- President of Laboratorio di Monitoraggio e Modellistica Ambientale per lo sviluppo sostenibile – LaMMA.
- Vice President of Fondazione per il Clima e la Sostenibilità (FCS).

1968 – 1970

- Fellowship in the Agronomy Faculty for a study on "Effect of the hydro-agricultural management over the Arno river flood regime" in the framework of the De Marchi Commission.

1970-1975

- Research activities in the micrometeorology sector applied to the energy balance with particular reference to the evapotranspiration, to mathematical models of crops and to the climatology applied to hydrology
- Two fellowships for periods of research at:
 - The Institut de Bioclimatologie de l'INRA - Versailles (P. Chartier)
 - The Department of Theoretical Production Ecology of the Wageningen University (C. De Wit)
- Assistant Professor of Meteorology and Climatology – Florence University
- Associate Professor of Meteorology and Climatology – Florence University
- Visiting Professor in the Nottingham and Aberdeen Universities - U.K.
- National Secretary of the National Committee for University

1975-1980

As a member of the Phenology Group of the Italian Botanical Society, carries out research activities in the agroclimatological sector, continues his collaborations with the Wageningen University on

the crop models, begins a experimental activity in the framework of elaboration of satellite data for the inventory of crops and land analysis;

- Associate Professor of Agrometeorology – Florence University

Member of the National Committee for the Agronomic Sciences of the CNR and then Scientific Secretary until 1986

- Propose to the CNR the constitution of the Institute for Agrometeorology and Remote Sensing in Florence
- Academician of the Accademia dei Georgofili of Florence and the Accademia di Scienze Forestali
- Appointed as member of the Administration Board of the Florence University
- Co-ordinator of the National Space Plan project concerning the measure of the energy, water and heat exchanges between forest vegetation and atmosphere
- Nominated as member of the Scientific Committee of the National Space Plan and of the Italian commission for the International Institute of Applied Systems Analysis of Laxembourg – Vienna

1980 – 1985

- Promotes and co-ordinates research in the sector of remote sensing by satellite applied to agriculture, environmental analysis and computer science in agronomy
- Period as Visiting Professor at the I.I.A.S.A - Laxembourg- Vienna in the framework of agroclimatic models of land productivity
- Full professor of Agrometeorology and Climatology in Florence University
- Director of the Istituto di Agrometeorologia ed Analisi Ambientale of C.N.R. in Florence
- Academician of the Accademia Nazionale della vite e del Vino
- Participates as FAO expert in the organisation of the Agrometeorological Services in Benin, Madagascar , Uganda
- Principal investigator of a research project of the EU on the "Impact of climatic changes over the agriculture and the environment"
- Consultant of DG XII for the preparation of the III F. P. on Climate Changes
- Promotes within the Accademia dei Georgofili the constitution of Ce.S.I.A (Centre for the Application of Computer Science in Agriculture) – Florence
- Member of the Scientific Council of:
- Istituto per l'Irrigazione – CNR- Napoli
- Istituto di radioecofisiologia – CNR- Roma

1985-1990

- Promotes and co-ordinates research in Geographical Information Systems applied to climatology, agriculture and territory
- Co-ordinates a project with the World Meteorological Organisation in the Agrhymet Regional Centre of Niamey in collaboration with the Meteorological Service of Niger for the elaboration of an early warning system for the agrometeorological monitoring of the agricultural campaign
- Member of the Scientific Council of the Agrhymet Regional Centre - Niger
- Appointed as Italian delegate in the Agrometeorological Commission of the World Meteorological Organisation - Geneva
- Director of Ce.S.I.A - Accademia dei Georgofili

Designated by the Ministry of Research as Italian representative for the Programmes of DG XII – EU on “Climatology and Environment” (till 1998) and for the Programmes of the DG XII – EU “Science and technology for development”

- Director of the Summer School of EU on the "Impacts of Climate Changes"
- Participates as national delegate to the second World Climatic Conference of WMO in Geneva
- Member of the Scientific Council of the Centre for the Defence against the atmospheric adversities of the Catholic University of Piacenza

1990-1995

- Promotes and co-ordinates research activities in the sector of meteorology and climatology applied to land and agriculture with particular reference to the phyto-pathological defence of crops the agroclimatic classification of land potential, spatial and temporal interpolation methods of meteo data, the estimation of missing data, the assimilation of data meteorological models and early warning systems in the developing world
- Member of the Advisory Board of the Agrometeorology Commission of WMO - Geneva
- Promotes – in the framework of Gruppo Finmeccanica in collaboration with the Universities and CNR – the constitution of FMA - Fondazione per la Meteorologia Applicata, of which he was appointed President
- Member of the Scientific Council of ENRICH of the EU
- Member of the Advisory Board - SUGRAM – Support Group for Agrometeorology of the JRC of UE - Ispra
- Italian delegate in the Climatology Commission of the World Meteorological Organisation - Geneva
- Member of the Scientific Council of the Observatoire du Sahara et du Sahel - Paris
- Academician of the Accademia Nazionale di Agricoltura of Bologna
- Italian delegate in India and Madagascar to the regional meetings of ENRICH
- Scientific co-ordinator of the Workshop of WMO about "Water and climate Change" – Casablanca – Morocco
- Invited Lecturer to the Wageningen University for the commemoration of the foundation of the above mentioned University on the theme of "Space and Time in Applied Climatology".

1995-2005

- Promotes and co-ordinates the research in the sector of climatological analysis, data spatialisation methods utilisation of R..S. and Meteo data available on Internet.
- President of INAPA - Istituto nazionale per l'analisi e la protezione degli Agroecosistemi of the CNR.
- In charge by the Tuscany Region as President of FMA to constitute the Laboratorio per la Meteorologia e Modellistica ambientale - LAMMA
- Chairman of the COST 79 Action - Applications in Agroclimatology of the EU.
- Promotes the Centro Interuniversitario di Agronomia Ambientale e Agroclimatologia between the Florence and Pisa Universities
- Participates as member in the Italian delegation to the General Assembly of WMO
- Member of the Scientific Secretariat of the President of CNR
- Delegate for the Convention between CNR and Ufficio Generale per la Meteorologia della Aeronautica Militare

- Promote COST action on the applications of Meteorology to Agriculture in the environment and at the moment of its constitution (COST 718) he is appointed chairman
- Scientific co-ordinator of the AP3A project of WMO in the Sahel Countries
- Receives at the Accademia dei Georgofili the Marchi 2000 award for the activities in the sector of research promotion of applied climatology and meteorology
- Lecturer invited by the European Agency EUMETSAT in Brussels and Kampala for the preparation of the PUMA project of the EU concerning the installation of Meteosat Second Generation in the African countries
- Scientific co-ordinator of a WMO Seminar in Kuala Lumpur for the V Region about the "Applications of GIS to applied climatology"
- Director of the Regional Meteorological Training Centre established by WMO in Florence concerning "GIS and RS applications in climatology and agrometeorology"
- Co-ordinator in the EU project "Constitution of the Agrometeorological Service of Morocco"
- Promotes the Interdepartmental Centre of Biometeorology of the University of Florence
- Member of the Steering Committee of the Satellite Application Facility - Land Surface of EUMETSAT
- Co-ordinator of the CLIMAG project of EU DG XII – ENRICH
- Chairman of the Open Programme Area Group (OPAG) on Support Systems for Agrometeorological Services established by the Commission of Agricultural Meteorology (CAgM) of WMO on 2002
- Director of IBIMET- CNR – Institute of Biometeorology – National Research Council
- Member of Directors Executive Committee National Research Council
- Project Leader : CNR-Ibimet –La.M.M.A-Regione Toscana
- Member Academic Council of Accademia dei Georgofili
- Member of Science Academy of XL
- Member of COST domain Committee Earth System Science and environmental Management

In the period between 1987 and 2000, he organised the following national and international meetings:

1987

- "Models in Agriculture and Forest Research" - San Miniato (Pisa), 31.5 - 3.6 1987 - Centro Studi "I Cappuccini". P.F. Incremento Produttività Risorse Agricole, CNR-IATA.
- Workshop "Climate impact on vegetation and water resources: direct effects of CO₂ on plants" - Firenze, 30-31.5.1987 - Accademia dei Georgofili.
- Workshop on "Instruments and observation Techniques in Agrometeorology" - Firenze, 28.10 - 11.11.1987 - Facoltà di Agraria dell'Università di Firenze. OMM, CNR-IATA, CeSIA - Accademia dei Georgofili.

1988

- Commissione di Meteorologia dell'O.M.M.: "Monitoring, Assessment and combat of drought and desertification" - Firenze, 5-9.4.1988. OMM, CNR-IATA, Università di Firenze.
- Convegno "Informatica e Agricoltura" - Firenze, Accademia dei Georgofili, 2-3.6.1988. CNR-IATA, CeSIA - Accademia dei Georgofili.

- European School of Climatology and Natural Hazards. Course on "Climatic change and Impacts: a general introduction" - Firenze, 11-18-9-1988 - Accademia dei Georgofili. CNR-IATA, CeSIA - Accademia dei Georgofili.

1989

- "I Programmi della E.U. sulla Ricerca Agraria" - Firenze, 13.2.1989 - Accademia dei Georgofili. CNR-IATA, CeSIA - Accademia dei Georgofili.
- Convegno: "Agrometeorologia, Agricoltura e Ambiente" - Firenze, 21-22.11.1989 - Palazzo dei Congressi. CNR-IATA, CeSIA - Accademia dei Georgofili.

1990

- Methodologies to assess the impact of climatic changes on vegetation. "Analysis of water transport in plants and cavitation of xylem conduits" - Vallombrosa (Firenze), 29-31.5.1990 - Abbazia di Vallombrosa.
- "Effect of climatic change on agricultural and natural Ecosystems" - San Miniato (Pisa), 3-5.9.1990 - Centro Studi "I Cappuccini".
- "Practical applications of Agrometeorology in Plant Protection" - Firenze, 4-7.12.1990 - Accademia dei Georgofili. WMO, EPPO, NAPPO.

1991

- "Monitorare l'Ambiente agrario e forestale" - Porto Conte, Alghero (Sassari), 4-6.6.1991 - Hotel "Baia di Conte".
- "Aspetti Ambientali e Socio-economici della desertificazione nell'Europa Mediterranea". "Environmental and Socio-economic aspects of desertification in Mediterranean Europe" - Firenze, 24-26.6.1991 - Accademia dei Georgofili.
- International Workshop on "Field Instrumentation for environmental Physiology" - San Miniato (Pisa), 16-21.9.1991 - Centro Studi "I Cappuccini". In collaborazione con CNR, SEB, BES, FESPP, CeSIA - Accademia dei Georgofili, P.F. RAISA.
- "L'Agrometeorologia del Vigneto" - Greve in Chianti (Firenze), 13.9.1991 - Castello da Verrazzano.
- Il Programma della C.E.E.: "Scienze e Tcnologie della Vita per i Paesi in via di sviluppo" Programma E.U. - STD3 - Firenze, 12.11.1991 - Accademia dei Georgofili. CNR-IATA, CeSIA - Accademia dei Georgofili, APRE-MURST.
- CAGM "Commission for Agricultural Meteorology" Tenth Session - WMO - Firenze, 2-13.12.1991 - Istituto degli Innocenti. CNR-IATA, CeSIA - Accademia dei Georgofili, MAF, ITAV.

1992

- Workshop on "Effects of Climatic Changes on Agricultural and Horticultural potential in the E.U." - Firenze, 5-7.3.1992 - Accademia dei Georgofili.
- Workshop "Working Group on Mediterranean Desertification" - Firenze, 22.6.1992 - Accademia dei Georgofili.
- "Seminar on Agrometeorological Strategies" - Firenze, 7-10.7.1992 - Sede IATA. CNR-IATA, CeSIA - Accademia dei Georgofili, CILSS, OMM, Programma Agrhymet, Cooperation Italienne (MAE).

- II Convegno Nazionale "Informatica e Agricoltura" - Firenze, 17-18.12.1992 - Accademia dei Georgofili. CNR-IATA, Accademia dei Georgofili, INEA, AIGR.

1993

- II Séminaire sur les strategies agrométéorologiques pour les pays sahéliens" - Niamey (Niger), 1-5.3.1993. CILSS, MAE, Agrhymet, CeSIA - Accademia dei Georgofili, CNR-IATA.
- Riunione Gruppo G.I.E.V. - Gruppo Italiano di Ecofisiologia Vegetale - Firenze, 3-4.5.1993 - Accademia dei Georgofili.

1994

- Joint Research Centre (J.R.C.) Meeting "SUGRAM II Support Group for Agrometeorology" - Firenze, 27-29.4.1994. JRC, SARL, CNR-IATA, CeSIA - Accademia dei Georgofili.
- Workshop on: "Weather Generators and data Spatialization for Climate Variability Modelling" - Firenze, 26-28.7.1994. E.U. - Climatology Unit, FMA, CeSIA - Accademia dei Georgofili, CNR-IATA.
- Conference Internationale: "Alerte précoce et suivi de l'Environnement" - Niamey (Niger), 7-9.11.1994. MAE - Cooperazione Italiana, CILSS, OMM, CeSIA - Accademia dei Georgofili, CNR-IATA.
- European Union: Actions in Agrometeorology: COST 77, 79, 711 - Firenze, 28.11 - 2.12.1994.

1995

- Network on Global Change and Impact on Ecosystems Réseau sur les changements globaux et leur impact sur les Ecosystemes - Firenze, 23-24.1.1995.
- Séminaire National de Formation sur le Suivi des Cultures et l'Alerte précoce - Niamey (Niger), Maggio 1995. DMN, Cooperation Italienne, OMM, CILSS, Programme Agrhymet, CeSIA - Accademia dei Georgofili -. CNR-IATA.
- Seminario su "Convenzione Internazionale sulla Desertificazione" - Roma, Istituto Italo-Africano, 11.5.1995.
- International Workshop in Field Techniques for Ecophysiology"- Rapolano Terme (SI), 17-22.9.1995. SEB, BES, FESSPP, CNR-IATA, FMA, CeSIA - Accademia dei Georgofili.
- Workshop: "Metodi e applicazioni in Agrometeorologia e Climatologia" - Teolo (PD), 15-19.11.1995 - CSIM. CNR-IATA, FMA, CSIM, CeSIA - Accademia dei Georgofili.

1996

- European School of Climatology and Natural Hazards - "A course on Climate Change Impact on Agriculture and Forestry" - Volterra (PI), 16-23.3.1996. E.U.- D.G. XII, CNR-IATA, FMA.
- World Food Summit - Analisi Territoriale e Sviluppo - Firenze, 5.6.1996. CNR-IATA, FMA, FAO, MAE.

1997

- Summer School: Seminar on data Spatial Distribution in Meteorology and Climatology - Volterra, Centro Studi S. Maria Maddalena, 28 settembre –3 ottobre 1997. E.U. –COST, WMO, World Meteorological Organization. CNR – IATA –WMO Regional Meteorological Training Center, FMA – Applied Meteorological Foundation.

1998

- Forum Ricerca e Sviluppo “Ricerca scientifica e trasferimento dei risultati: il ruolo dello Stato e delle Regioni” - Firenze, Palazzo dei Congressi, 9 febbraio 1998. Regione Toscana , CNR – IATA
- 7th ICCTA International Congress for Computer Technology in Agriculture: “*Computer Technology in Agricultural Management and Risk Prevention*” - Florence . Palazzo degli affari , 15th – 18th November 1998. Ce.S.I.A. – Accademia dei Georgofili, CNR – IATA , FMA, DLG, SAF. RASE, ANA.

1999

- “ Meteorologia e Climatologia : Opportunità per lo sviluppo industriale e l’occupazione. Firenze, 6 marzo scuola di Guerra Aerea. Fondazione e Circolo Fratelli Rosselli, Fondazione per la Meteorologia Applicata, CNR- IATA
- Course on “ Methodologies for Remote Sensing and Conventional Data Merging” - Florence, CNR – IATA , 8 –18 March 1999. CNR – IATA – Regional Meteorological Training Centre of World Meteorological Organization, Italian Met Service

2000

- Meeting del progetto: “Elaborazione e Sperimentazione di Modelli di Orientamento per favorire l’occupazione nelle Aree Appenniniche”. CNR – IATA Ministero del Lavoro e della Previdenza Sociale, Comunità Montana Mugello, Comunità Montana Serinese- Solofrana - Firenze, 30 Giugno 1999
- ECAC 2000 3rd European Conference on Applied Climatology “*Tools for the Environment and man of the year 2000*”- Pisa, 16- 20 October 2000. CNR – IATA, FMA, EUMETSAT, International Society of Biometeorology

2001-2005

- Member of Directors Executive Committee National Research Council
- Director of CNR- IBIMET – Biometeorology Institute
- Project Leader : CNR-Ibimet –La.M.M.A-Regione Toscana
- Member Academic Council of Accademia dei Georgofili
- Member of Science Academy of XL
- Member of COST domain Committee Earth System Science and environmental Management

Author of more than 450 scientific papers including several books