

# Curriculum Vitae

## Personal data

### Sandro Fuzzi

Address (work)	Istituto di Scienze dell'Atmosfera e del Clima – Consiglio Nazionale delle Ricerche (ISAC-CNR) Via Gobetti 101, 40129 Bologna
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Citizenship	Italian
Birth date	1 March, 1951

## Research positions

2006 - 2011	Coordinator, Global Change Project – Department Earth and Environment of the National Research Council
1999 - present	Research Director, Institute of Atmospheric Sciences and Climate of CNR, Bologna
1988 - 1999	Senior Researcher, Institute of Physics and Chemistry of the High and Lower Atmosphere of CNR, Bologna
1982 - 1983	Visiting scientist, Atmospheric Sciences Research Center, State University of New York at Albany (USA)
1976 - 1988	Researcher, Microphysics Branch, Institute of Atmospheric Physics of CNR, Bologna
1973 - 1976	Research Fellow, Microphysics Branch, Institute of Atmospheric Physics of CNR, Bologna

## Education

1974	Doctoral Degree in Chemistry – University of Bologna
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## Research and Research Management

Main field of research are the physical and chemical processes in the atmosphere and their effects on global change, climate, ecosystems and human health.

Actively participates in the international efforts to transfer the research results to the policy makers responsible of the environmental management.

Since the mid 80's has contributed to the establishment of a new science field concerning the physical and chemical processes involving atmospheric aerosol and clouds, which has produced important advancements in the research on global change and climate. In these fields has a strong international reputation, testified by several appointments in key national and international research bodies.

Has coordinated several national, European and international research projects. The last large coordinated project within FP6 is the European Network of Excellence ACCENT (Atmospheric Composition Change: the European Network) which includes all major European Institutions and Universities operating within the field of global change research. The Network has operated over a six year period to promote the future research agenda on atmospheric sustainability, to facilitate collaboration within the European and international science community and to optimise a two-way interaction between the science community and the policy makers responsible of the environmental management.

Within FP7, the Network ACCENT has been received further support by the European Commission in form of a Coordinated Action (ACCENT-Plus) aimed at further enhancing the capabilities of the European science community in the field of atmospheric composition change to transfer research results to policy makers,

Has an advanced knowledge of the Italian, European and international research systems and of their management procedures, having coordinated several projects financed by the European Commission and the Italian Ministries of Research and Environment.

Has been a member of several European (UE-DG Research) and international (IGBP, UNEP, WMO, ICSU) Working Groups and Task Forces for the strategy planning of interdisciplinary science efforts in the field of global environmental changes.

At the national level, was a member (2001-2002) of the ad-hoc team appointed by the Ministry of Environment to prepare the "National Research Program on Climate" and has recently been a member of the writing team for the thematic section "Environment: Terrestrial and Marine Systems and Climate" of the Italian National Research Program 2011-2013.

Is presently President of the public-private SME PROAMBIENTE, which operates in the field of innovation and technological transfer for environmental surveillance, protection and remediation.

## Honors and awards

- 2007 Official recognition by the Italian Prime Minister for the contribution to the 4th Assessment Report IPCC
- 2014 Highly Cited Researchers, ranked by Thomson Reuters among the top 1% most cited scientists in Geosciences - Earning the mark of exceptional impact in the field.
- 2014 Recipient of the Haagen-Smit Prize, awarded annually to an outstanding paper published in Atmospheric Environment, as co-author of the paper: Putaud, J.-P. et al., A European aerosol phenomenology—2: chemical characteristics of particulate matter at kerbside, urban, rural and background sites in Europe, Atmos. Environ., 38, 2579-2595, 2004.

## Membership of International Committees and Panels

- Commission on Atmospheric Chemistry and Global Pollution, CACGP (1990-1994)
- Science Panel of the European Commission on Atmospheric Composition Change (1992-2004)
- Scientific Steering Committee of the EUREKA project EUROTRAC-1 (1992-1995)
- EU-DG Research Panel for the strategy document "Chemistry in the Atmosphere: A strategy for European Research into Global Environmental Issues" (2003)
- International Commission on Clouds and Precipitation, ICCP (1996-2004)
- EU-DG Research Panel for the strategy document "A Global Strategy for European Atmospheric Interdisciplinary Research" (1997)
- Scientific Steering Committee of the EUREKA project EUROTRAC-2 (1998-2000)
- Scientific Steering Committee of the International Global Atmospheric Chemistry Project, IGAC (2000-2006)
- Co-chair of IGAC (2003-2006)
- Steering Committee of the International Geosphere-Biosphere Program, IGBP (2003-2006)
- Managing Committee of the COST Action 633 "Particulate matter: Properties related to health effects" (2003-2009)
- EU-DG Research Panel for the strategy document "Atmospheric Change and Earth System Science" (2005)
- ESFRI (European Strategy Forum on Research Infrastructures) expert-group on Environmental Monitoring (2005-2006)
- Steering Committee of the UNEP Project ABC (Atmospheric Brown Cloud) (2007-present)
- Ad-hoc ICSU Panel for the strategy document "The Belmont Challenge: Regional Environmental Change: Human Action and Adaptation (2009-2010)
- Lead Author of the policy document commissioned by the European Commission "Research findings in support of the EU Air Quality Review Process" (2011-2013)
- Member of the Inter-Commission Coordination Group on the WMO Integrated Global Observing System (2012)

Has been a Contributing Author for the 4th Assessment Report IPCC (Intergovernmental Panel on Climate Change) Climate Change - The Physical Science Basis. The Report was published in 2007; in that year IPCC was awarded the Nobel Prize for Peace.

Has been engaged as Review Editor for the 5th Assessment Report IPCC (Intergovernmental Panel on Climate Change) Climate Change - The Physical Science Basis. The Report has been completed at the end of 2013.

## **Evaluation of Science**

Has a long experience in the international scientific evaluation for several Organizations, among which:

European Commission – Directorate General Research

European Research Council (ERC)

US National Science Foundation (NSF)

US National Oceanic and Atmospheric Administration (NOAA)

UK National Environment Research Council (NERC)

German Ministry of Scientific Research and Technology (BMBF)

Swiss National Fund for Scientific Research

## **Teaching**

Contract Professor of the course on Global Change at the Departments of Environmental Sciences of the Universities of Bologna and Urbino.

Has been the Tutor of several graduation and doctoral theses at the above Universities.

Several of his former students now hold research positions at Italian and European research Institutions.

## **Language skills**

Italian: mother tongue

English: advanced user in reading, writing, listening and speaking

## **Editorial activity**

Associate Editor, Journal of Geophysical Research-Atmospheres

Associate Editor, Tellus

Editor of 12 books and special journal issues

Has reviewed for the most prestigious international journals in the field of atmospheric sciences and global environmental change

## **Bibliometric data**

Author of > 200 papers in international journals and books, including contributions to Nature, Science and PNAS, and of > 250 presentations (several invited) at national and international Symposia.

According to the ISI Science Citation Database, the number of citations exceeds 9000, with a h-factor of 50.