



Roberto de Aguiar Peixoto

Personal Information

Date and place of birth: 06 November 1953, São Paulo SP Brazil

Nationality: Brazilian

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Education

Naval Engineer (University of São Paulo)

Master in Engineering (University of São Paulo)

Ph.D. Mechanical Engineering (University of São Paulo)

Present Affiliation and Appointment

Maua Institute of Technology (IMT), S.Caetano do Sul SP, Brazil: Professor of Mechanical Engineering; Energy and Environment.

Summary of Main Professional Activities

Presently, at Maua Institute of Technology (IMT), teaching courses on refrigeration and air conditioning, thermal sciences, and energy conversion systems. Development of studies and R&D projects in the field of refrigeration and air conditioning, ozone layer protection and climate change, energy efficiency of refrigeration and air conditioning equipment, GHG emissions.

Technical consultant to Montreal Protocol implementing agencies (UNDP, UNIDO) in the refrigeration and air conditioning areas. Acting in the development of industrial conversion projects, Refrigerant Management Plans, National Cooling Plans, and training courses in Brazil, Latin American and Caribbean Countries.

Researcher at São Paulo Institute for Technological Research –IPT, from 1981 to 1995, involved in the coordination and execution of research and development projects as well as technical and technological services and studies for government agencies and industry in the air conditioning and thermal engineering area.

Technical advisor, from 1995 to 2004, to the Brazilian Industry Association of Refrigeration and Air Conditioning for issues related to Montreal Protocol implementation and new refrigerant fluids.

Consultant Engineer to refrigeration and air conditioning industries and engineering companies from 1997 to 2002.

Consultant to the Brazilian Ministry of Science and Technology for the development of the Brazilian Inventories of Greenhouse Gases Emissions, responsible for the HFC emissions inventory.

Consultant to Sao Paulo State Environmental Agency (Cetesb) for the development of the Inventory of Greenhouse Gases Emissions in the State of Sao Paulo, responsible for the HFC inventory.

Summary of Other Activities

Visiting Professor at London South Bank University, London UK (August 2016-July 2017) teaching and participating in research projects related to sustainable refrigeration air conditioning and heat pump applications.

Visiting scholar and researcher engineer, in 1992 and 1993, at the Air Conditioning and Refrigeration Center, University of Illinois at Urbana Champaign, USA, conducting research on the use of alternative refrigerants in refrigeration systems.

Lead Author of the *2006 IPCC Guidelines for National Greenhouse Gas Inventories*, participating in the Industrial Processes and Product Use volume chapter 7 *Emissions of Fluorinated Substitutes for Ozone Depleting Substances*. (2004-2005).

Former member of the Editorial Board of the Emission Factor Data Base - EFDB/IPCC

Coordinating Lead Author of the IPCC/TEAP Special Report On Safeguarding the Ozone Layer and the Global Climate System. (2003-2005).

Co-chair of the UNEP (United Nations Environment Program) Refrigeration Air Conditioning and Heat Pumps Technical Options Committee (since 2011).

Member of the HFC and PFC Task Force, a group created by TEAP UNEP to study and prepare a report in 1999 on the implications to the Montreal Protocol of the inclusion of HFCs and PFCs in the Kyoto Protocol.

Member of the Scientific and Organizing Committee of the Brazilian Congress on Refrigeration and Air Conditioning - Conbrava, held every two years in São Paulo, Brazil.

Publication of more than 80 papers in Brazilian and International Conferences and journals.

Languages

Fluent in Portuguese (mother tongue), English, and Spanish. Some knowledge of French

Awards

Contributor to the Nobel Peace Prize for 2007 to IPCC.

U.S. Environmental Protection Agency Stratospheric Ozone Protection Award in the year 2000.

Best paper in the "II Spanish and Inter-American Air Conditioning and Refrigeration Congress, Madrid", 1993.

Pirelli Award, Energy Conservation in Air Conditioning Systems, 1989.