



**CUURRICULUM VITAE OF  
Dr. JORGE ALBERTO PEREZ Y PERAZA  
ABSTRACT**

## **I. ACADEMIC BACKGROUND**

- Bachelor in Physics and Mathematics from the High School of Physics and Mathematics of the National Polytechnic Institute, México (1964-1968).  
Specialty: Astrophysics of Stellar Interiors
- MSc in Physics, Faculty of Sciences, University of Paris, France (1969-1970).  
Specialty: Nuclear Astrophysics (Núcleosynthesis from Spallation reactions).
- PhD in Physics, Faculty of Sciences, University of Paris, France (1970-1972).  
Specialty: Plasma Physics, Space Physics and Cosmic Ray Physics.
- Postdoctoral : Laboratoire de Physique Cosmique of the CNRS, France, 1973.  
Specialty: , Solar Flare, Solar Activity and Solar Particle Physics.

## **II. SCIENTIFIC AND TECHNOLOGICAL PRODUCTION**

- 192 Articles in International Scientific Reviews (including 8 Invited Review Papers)
- 3 PATENTS.
- 22 Technical Reports.
- 20 Popularizing articles.
- 13 Books
- 35 Chapters in books
- 106 International and National Congresses (with 1 to 6 contributions).
- Theses Direction:
  - . 3 of PhD.
  - . 3 of MSc.
  - . 10 Bachelor in Physics
  - . Coordinator of two Postdoctoral
  - . Coordinator of one Patrimonial Professorship (Chair from the CONACyT)
- Citations to works: > 300 (excluding when I am author or co-author).

## **III. RESEARCH FIELDS:**

- Plasma Physics and MHD (Confinement , Transformation and Liberation Of magnetic energy in the phenomenon of Solar Flares).
- Atomic Physics (Interaction of accelerated particles with plasmas and EM fields).
- High Energy Physics (Hadronic Interactions at very high energies).
- Solar Particle Physics (Acceleration, Transport and Charge State).
- Cosmic Ray Physics (Modulation)
- Physics of the Solar-Terrestrial Relationships (Solar Activity Influence on the earth environment).
- Physics-Chemistry of thermostable polymers (synthesis and polymerization of optical-ophthalmic monomers).

## **IV. PROFESSIONAL EXPERIENCE**

- Teacher of High School General Physics (National Polytechnic Institute) (IPN), MEXICO, 1966-1968.
- Postdoctoral Boursier, Lab. de Physique Cosmique de Verrière le Buisson, Of the CNRS, FRANCE, 1973.
- Tenure Investigator on Cosmic Rays and Solar Physics, Institute of Astronomy, UNAM, 1973-1981.
- Professor of Plasma Physics, MHD, Cosmic Rays and Solar Physics at the Faculty of Sciences, UNAM (since 1973) and in the Postgraduate School of Earth Sciences at the IGUNAM (since 1990).
- Invited Professor, TATA Institute of Fundamental Research, Bombay, INDIA, 1979-1980.

- Invited Investigator, Centre d'énergie Atomique, Saclay, FRANCE, 1980-1981.
- Senior Investigator, IGUNAM, since 1981.
- Vice Director of INAOE, Tonantzintla, Puebla, MEXICO, 1985-1987
- Coordinator of the Astronomical Observatory of INAOE, Cananea, Sonora, MEXICO, 1985-1987.
- Coordinator del Astrophysics Section of INAOE, 1985-1987.
- Coordinator of the Macromolecules Laboratory, INAOE, 1987-1991.
- PRESIDENT OF THE ENTERPRISE "INDUSTRIAS PERLAV, S.A.", 1987-1993.
- General Coordinator of Academic Cooperation of the IPN, 1999-2001.

#### **V. FORMATION OF RESEARCH GROUPS**

- Formation of a Solar Physics Group in the Institute of Astronomy, National Autonomous University of Mexico (UNAM) (1973-81), MEXICO.
- Formation of a Solar Physics Group in the Institute of Geophysics, UNAM (1982-85), MEXICO.
- Formation of a Solar Physics Group in the INAOE (National Institute for Astrophysics, Optics and Electronics) (1985-1989) Tonantzintla, Puebla, MEXICO.
- Formation of a Macromolecules Laboratory and Research Group in the INAOE (National Institute for Astrophysics, Optics and Electronics) (1985-1991), Tonantzintla, Puebla, MEXICO.
- Mexican responsible of a bilateral group of Cosmophysics and Solar-Terrestrial Relationships between the Institute of Geophysics of UNAM (IGUNAM) and the IZMIRAN of the Academy of Sciences of Russia (1986-up to present).
- Mexican responsible of group of Solar Particles, between IGUNAM and the University of Alcalá de Henares, Madrid, SPAIN (since 1995) and the Polar Geophysical Institute of Apatity, Murmansk, RUSSIA (since 1990).
- Mexican responsible of a bilateral group of High Energy Physics, between IGUNAM and Dept. of physics of the University Valencia, SPAIN (since 1997).

#### **VI. ADITIONAL INFORMATION**

- Elected Member of several International and National Scientific Academies.
- Reviewer and Referee of several Scientific Reviews and International Organizations.

#### **VI. DISTINCTIONS.**

Several Distinctions National and Internationals among which:

- Elected to dictate Invited Talks in several International Scientific Events.
- Rewarded by the President of the Mexican Republic with the NATIONAL PRIZE "PRESEA LAZARO CARDENAS" in official ceremony at the Presidential House "Los Pinos", on May 27, 1992.