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EDUCATION

- Doctorat d'Etat (Ph.D Thesis) in Geophysics - *University of Toulouse, 1975*

PROFESSIONAL EXPERIENCE

- Senior Scientist at the '*Laboratoire d'Etudes en Géophysique et Océanographie Spatiale*' (LEGOS), *Centre National d'Etudes Spatiales (CNES)*, Toulouse, France.
- Presently, head of group '*Géophysique, Océanographie et Hydrologie Spatiale*' at LEGOS.
- Deputy Director of LEGOS since 1996
- Member of several national and international committees for research assessment :
 - Scientific Council of the 'Office Parlementaire d'Evaluation des Choix Scientifiques et Technologiques' of the French Parlement (1998-)
 - Scientific Council of the City of Paris (2003-)
 - Haut Conseil of the Observatoire de Paris (2006-)
 - Committee of the "Blaise Pascal" international chairs of the region Ile de France (2005-2006)
 - National Committee for scientific research assessment (Comité National d'Evaluation de la Recherche -CNER-) (1999-2005)
 - National Scientific Council of the French Ministry of Research (1998-2002)
 - Coordinating Committee for Earth sciences and Environment of the 'Direction de la Recherche' at the French Ministry of Research (1999-2002)
 - Whitten Medal Committee of the American Geophysical Union (AGU) (2000- 2002)
 - Earth Sciences Committee (Earth, Oceans, Atmosphere, Biosphere) of the 'Centre National d'Etudes Spatiales' (CNES) (1994- 2003)
 - 'Union Fellow' Committee of the Americal Geophysical Union (AGU) (1998-2000)
 - European Space Science Committee of European Space Foundation (ESF) (1998- 2000)
 - Scientific council of the '*Institut National des Sciences de l'Univers*' (Centre National de la Recherche Scientifique -CNRS-) (1996- 1999)
 - 'Comité de Perfectionnement' of the French '*Institut Océanographique*' (1996-2000)
 - 'Macelwane Award' Committee of the American Geophysical Union (AGU) (1992-1996)

- National Committee of CNRS for research assessment (1983-1987, 1991-1995)
- Earth Sciences Committee of the Bureau de Recherches Géologiques et Minières (1994-1997)
- Study Group ‘*Temporal variations of the Geopotential*’ of the International Association of Geodesy (IAG) (Chair person, 1995-1998)
- Council of the ‘*Société Française de Physique*’ (1985-1989)
- Solar System Working Group of the European Space Agency (ESA) (1979-1982)

INTERNATIONAL RESPONSABILITIES ; present and recent

- International Secretary of the American Geophysical Union (AGU) (2002-2006)
- Lead Author of the IPCC (Intergovernmental Panel on Climate Change) Working Group I for ‘Ocean climate and sea level’ (2004-2007)
- Member of the “Water Cycle” panel of the NRC (National Research Council) Decadal Survey (2005-2006)
- President of the Geodesy section of the European Geosciences Union (EGU) (1999-2004)

RESEARCH INTEREST

Application of Satellite Geodesy to Earth Physics :

- Satellite Geodesy : techniques and methods
- Gravity field and marine geoid determination by space techniques (in particular satellite altimetry) and interpretation in terms of mantle dynamics (lithosphere structure ; hotspot dynamics ; mantle convection). Seafloor topography determination by satellite altimetry.
- Earth rotation and polar motion: measurement by space techniques ; geophysical causes of observed irregularities.
- Tides: solid Earth and ocean tides ; inference on the Earth-Moon system evolution.
- Positioning with space geodesy techniques: tectonic motions, vertical motions, geocenter motions.
- Mean sea level variations at regional and global scales from satellite altimetry and tide gauges: observations and climatic causes
- Temporal changes of the Earth gravity field: measurement by space techniques and applications to continental hydrology and oceanography
- Global couplings between the solid Earth, atmosphere, oceans, continental waters and ice sheets in relation with the global change.
- Large-scale land hydrology from space

Publications:

- >130 articles in refereed international journals
- Several Monograph chapters
- Editor of 5 books, among them : ‘Satellite Altimetry and Earth Sciences. A handbook of Techniques and Application, Lee-L. Fu & A. Cazenave Editors, Academic Press, International Geophysics Series, Vol. 69, San Diego, USA, 463 pages, 2001’.
- Co-Author of 2 popular books: ‘*Formes et Mouvements de la Terre*’, Belin Editions, Paris, 1994 (with Kurt Feigl) and ‘*La Terre vue de l’espace*’, A. Cazenave et D. Massonnet, Bibliothèque Pour la Science, Belin Editions, Paris, 2004.

OTHERS

- Scientific advisor of 23 PhD theses.
- P.I. of several space missions:
ERS-1 (ESA), TOPEX-POSEIDON (NASA-CNES), LAGEOS-2 (NASA), DORIS project (CNES), JASON-1 (CNES-NASA), ENVISAT (ESA).
- Editor in Chief of the journal ‘Earth and Planetary Science Letters’, EPSL, (1997-2002)
- Co-editor of PAGEOPH (1989-1994) and of Journal of Geodynamics (1994-1997)
- Teaching: ‘Satellite Geodesy’ in DEA classes at Toulouse University

HONORS AND AWARDS

- Member of the *French Academy of Sciences* (since 2004; formerly corresponding member since 1994)
- Fellow of the *American Geophysical Union* (since 1996)
- Member of the *Academia Europaea* (since 1990)
- Member of the *Académie Nationale de l’Air et de l’Espace* (since 1986)
- Bronze Medal of CNRS (1980)
- Prize Doisteau-Blutet of the *French Academy of Sciences* (1979; 1990), Prize Kodak-Pathé-Landucci of the *French Academy of Sciences* (1996)
- Vening-Meinesz Medal of the *European Geophysical Society* (1999)
- Arthur Homes Medal of the *European Geosciences Union* (2005)
- Ordre National du Merite, Officer (1997)
- Legion d’Honneur (Legion of Honour), Chevalier (2000)