

SPEAKER'S BIOGRAPHY

Jean-Claude Worms (France)



Current Position

Head of unit for space sciences – Executive Scientific Secretary of the European Space Sciences Committee (ESSC), ESF's Strategic Board on space research. ESSC advises ESA, Ministers of ESA Member States and various bodies of the European Union by publishing reports, position papers and recommendations on space policy and related research.

Tasks and responsibilities: management and strategic planning, programme evaluation and reviewing, space-related intelligence monitoring, external relations and communication, report drafting and publication, fund raising and budget management, staff supervision

Achievements: constitution of a world-wide network of contacts and liaisons among executives in space research; establishment of a successful working interface with the European Commission DG Enterprise; securing of an observer status in ESA's Ministerial Conferences and EC's FP7 Space Advisory Group;

setting-up of trustworthy relationships with sister committees in the USA, Japan and China, and with other inter-governmental bodies (OECD, UN-OOSA); expansion of the ESSC's visibility and remit

Education

PhD in Physics (astronomy & space science), Université Paris 6, April 1993

M.Sc. in Applied Physics (Université Paris 6) in 1988

French Baccalauréat (Maths & Physics) in 1976

U.S. High School Graduation Diploma (Louisville, KY) in 1975

Languages

French and English: fluent. German: basic (spoken); fair (written). Mandarin Chinese & Italian: beginner

Academia & Research

Research areas: radiative transfer in granular media (application to solar system dust); pre-planetary aggregation processes; space debris. Associate Researcher to the French Laboratoire de Physique et Chimie de l'Atmosphère (Orléans), Laboratoire des Sciences de l'Image et de la Télédétection and Laboratoire des Systèmes Photoniques (Illkirch), and Service d'Aéronomie (Verrières-le-Buisson).

PI or Co-PI of various solar system dust-related experiments and proposals (PROGRA2, CODAG-SRE, LIBRIS, DUNE), including an international research programme to build an ESA dust and plasma facility on the International Space Station (IMPACT, ICAPS, IPE).

INTERNATIONAL SPACE
EXPLORATION CONFERENCE
BERLIN 8-9 NOVEMBER 2007

Member of the Editorial Board of the International Journal on Nanotechnologies (2003-).
Main Scientific Organizer of sessions on solar system small bodies during the COSPAR General Assemblies in 1998 (Nagoya) and 2002 (2nd World Space Congress, Houston). Deputy Organizer during the COSPAR Assemblies in 2000 (Warsaw) and 2004 (Paris). Scientific Organising Committee member during the COSPAR Assemblies in 2006 (Beijing) and 2008 (Montreal).
Main Scientific Organizer of a session on solar system exploration during the EGU 2007 General Assembly.

Science Editor of special issues of the journal "Advances in Space Research" (1999, 2003 and 2005).
Reviewed several papers in this field since 1996 for various international refereed journals.
Assistant Professor in physics and astronomy, Univ. Paris 6 and Versailles-Saint Quentin (1989-1992).
Conferences (physical sciences in space), ISU Master and Summer Programmes (2002, 2003, 2005).

Industry & Miscellaneous

Public Relations Scientist, ICAPS programme (2002-2007).
Outreach activities with several secondary education establishments in France; science animation during science festivals and theatre productions in Strasbourg; educational movie; public conferences.
President (2000-01) and VP Academic Affairs (2002-2003), Branch of Alsace of AAAF (Association Aéronautique et Astronautique de France).
Consultant DASSAULT Aviation: report on the state-of-the-art French civilian research in Infrared and SAR imaging (1994); FUTURASPACE (2003-2005).

Membership

COSPAR Associate since 1996
EUROSCIENCE since 1998
ELGRA (European Low-Gravity Association) 1994-2003; 2006-2007