

First Announcement



World Space Environment Forum

(WSEF 2007)

20 to 25 October 2007

Bibliotheca Alexandrina, Alexandria, Egypt

<http://www.bibalex.org>

Conveners (confirmed):

- M. Shaltout (National Research Institute of Astronomy and Geophysics-NRIAG, Egypt) [mosalamshaltout@hotmail.com]
- A. Chian (National Institute for Space Research, Brazil) [achian@dge.inpe.br]
- H. El-Mikaty (Bibliotheca Alexandrina, Egypt)
- X. Moussas (University of Athens, Greece) [xmoussas@phys.uoa.gr]

Local Organizing Committee:

- H. El-Mikaty (Bibliotheca Alexandrina, **Egypt**)
- M. Shaltout (NRIAG, **Egypt**) [mosalamshaltout@hotmail.com]: Chair
- O. Fikry (Bibliotheca Alexandrina, **Egypt**) [Omar.Fikry@bibalex.org]: Co-Chair
- M. El-Sayed (Bibliotheca Alexandrina, **Egypt**)
- M. Yousef (NRIAG, **Egypt**)
- M. Azab (Bibliotheca Alexandrina, **Egypt**)
- R.Amin (Bibliotheca Alexandrina, **Egypt**)

International Program Committee (to be confirmed):

- A. Chian (National Institute for Space Research, Brazil) [achian@dge.inpe.br]: Chair
- X. Moussas (University of Athens, Greece) [smoussas@phys.uoa.gr]: Co-Chair
- M. Argon (Head of Egyptian Space Program, Egypt)
- J. Ballester (University of Balearic Islands, Spain) [dfsjlb0@uib.es]
- A. Balogh (International Space Science Institute, Switzerland) [balogh@issi.unibe.ch]
- D. Cole (IPS Radio and Space Services, Australia) [david@ips.gov.au]
- M. Goldstein (NASA/GSFC, USA) [melvyn.goldstein@gssc.nasa.gov]
- H. El-Naimiy (El-Emirates University, UAE and President of the Arab Union of Space Science and Technology AUASS-Jordan)
- L. Lee (National Central University, Taiwan) [loulee@cc.ncu.edu.tw]
- W. Liu (Canadian Space Agency, Canada) [william.liu@space.gc.ca]
- S. Machida (Kyoto University, Japan) [machida@kugi.kyoto-u.ac.jp]
- M. Potgieter (North-West University, South Africa) [fskmsp@puk.ac.za]
- M. Shaltout (NRIAG, Egypt) [mosalamshaltout@hotmail.com]
- N. Srivastava (Udaipur Solar Observatory, India) [n.srivastava@prl.res.in]
- R. Turkmani (Imperial College, UK) [r.turkmani@ic.ac.uk]
- J. Valdivia (University of Chile, Chile) [alejo@fisica.ciencias.uchile.cl]
- U. Villante (University of L'Aquila, Italy) [umberto.villante@aquila.infn.it]
- N. Vilmer (Meudon Observatory, France) [nicole.vilmer@obspm.fr]
- F. Wei (Center for Space Science and Applied Research, China) [fswei@spaceweather.ac.cn]
- L. Zelenyi (Space Research Institute, Russia) [lzelenyi@iki.rssi.ru]

Aims:

Bibliotheca Alexandrina and World Institute will organize this meeting jointly for Space Environment Research (WISER). Bibliotheca Alexandrina (<http://www.bibalex.org/English/index.aspx>), the New Library of Alexandria, is dedicated to recapture the spirit of the original Alexandria Library. It aspires to be the World's window on Egypt; Egypt's window on the world; a leading institution of the digital age; and above all a center for learning, tolerance, dialogue and understanding. World Institute for Space Environment Research (<http://www.cea.inpe.br/wiser>) is an international network of centers of excellence dedicated to promote collaboration in research and training in earth-ocean-space environment, focusing on the study of the impact of space weather and space climate on the earth's climate, environment and technology, as well as the prevention of natural disasters such as storms and earthquakes, with emphasis on theory, computer modeling, data analysis, and prediction. The mission of WISER is to linking nations for the peaceful use of the earth-ocean-space environment. Hundreds of space and earth scientists from leading academic and research institutions from over 30 countries are taking part in WISER activities. The aim of this meeting is to review the state-of-the-art of the earth-ocean-space environment research and identify the key problems in Sun-Earth relation and Earth observation to be addressed by the international solar-terrestrial science community in the coming years. WSEF 2007 will provide a forum for elaborating international collaboration programs on research and training on the earth-ocean-space environment.

This meeting is the third of the WISER series of World Space Environment Forum (WSEF). The University of Adelaide hosted the first WSEF in 2002 in Adelaide, Australia. Space Research Institute of Austrian Academy of Sciences hosted the second WSEF in 2005 in Schloss Seggau, Austria. The proceedings of WSEF 2007 will be published as a special issue of Space Science Reviews by Springer (to be confirmed), following the tradition of WSEF 2002 (SSRv 107, 1-504, 2003) and WSEF 2005 (SSRv 122, 1-337, 2006).

WSEF2007 will devote first 4 days, 20-23 October 2007, for scientific discussions consisting of invited talks and panel discussions. On 24-25 October 2007, WSEF2007 will organize a number of public lectures to present an overview of space science and earth observation activities worldwide, in commemoration of the fiftieth anniversary of space exploration and the fiftieth anniversary of International Geophysical Year (IGY).

Participation in WSEF2007 is by invitation only. Those interested in attending this meeting please contact the conveners.

Number of participants: 50~60

Deadline for acceptance of invitation: 31 March 2007

Deadline for registration and submission of abstract: 31 July 2007

Deadline for submission of manuscript for the proceedings: 31 December 2007

Registration fees:

The registrations will be in the form in two types:

1-Up to 31 July 2007:

Registration fees: 300 USD will cover 1 copy of conference book, coffee/tea > breaks, lunches, welcome reception, conference dinner, conference excursion).

2- Registration on site:

Registration fees: 400 USD will cover 1 copy of conference book, coffee/tea > breaks, lunches, welcome reception, conference dinner, conference excursion).

List of Invited Speakers (to be confirmed):

- M. Ashour-Abdalla (University of California in Los Angeles, USA): Computer simulation of wave-particle processes in the Earth's magnetosphere [mabdalla@igpp.ucla.edu]
- J. Ballester (University of Balearic Islands, Spain): Seismology of solar prominence [dfsjlb0@uib.es]
- A. Balogh (International Space Science Institute, Switzerland): Observation of magnetic field fluctuations in the heliosphere [balogh@issi.unibe.ch]
- L. Bankov (Space Research Institute, Bulgaria): Observation of the ionospheric effects associated with earthquakes [lbankov@bas.bg]

- W. Baumjohann (Space Research Institute, Austria): Bursty bulk flows in the magnetosphere [baumjohann@oeaw.ac.at]
- G. Camara (National Institute for Space Research, Brazil): Earth observations [Gilberto.camara@inpe.br]
- F. Cheng (National Cheng Kung University, Taiwan): Theory of substorms [frankcheng@pssc.ncku.edu.tw]
- D. Cole (IPS Radio and Space Services, Australia): Space weather forecasting [david@ips.gov.au]
- E. Dal Pino (University of São Paulo, Brazil): Astrophysical jets [dalpino@astro.iag.usp.br]
- S. El-Labany (Mansoura University, Egypt): Solitary waves in dusty plasmas [eltaibany@hotmail.com]
- M. El -Nawawy (Cairo University, Egypt): Space chemistry
- O. Fikry (Bibliotheca Alexandrina, Egypt): Solar filaments
- M. Gedalin (Ben-Gurion University, Israel): Saturn's ring systems [gedalin@bgu.ac.il]
- K. Glassmeier (Technical University of Braunschweig, Germany): Cassini magnetometer observation of Saturn [kh.glassmeier@tu-bs.de]
- M. Goldstein (NASA/GSFC, USA): Solar wind turbulence [melvyn.goldstein@gsfc.nasa.gov]
- W. Gonzalez (National Institute for Space Research, Brazil): High-intensity long-duration continuous auroral activities [gonzalez@dge.inpe.br]
- N. Gopalswamy (NASA/GSFC, USA): Coronal mass ejections and interplanetary shocks [gopals@fugee.gsfc.nasa.gov]
- M. Hayakawa (University of Electrocommunication, Japan): Monitoring ionospheric disturbances prior to the earthquakes using low-frequency electromagnetic waves [hayakawa@whistler.ee.uec.ac.jp]
- A. Ibrahim (Cairo University, Egypt): Gamma-ray bursts and magnetars [alaa@milkyway.gsfc.nasa.gov]
- P. Janhunen (Finnish Meteorological Institute, Finland): Auroral electron acceleration [pekka.janhunen@fmi.fi]
- V. Jatenco-Pereira (University of São Paulo, Brazil): Alfvén wave phenomena in astrophysical plasmas [jatenco@astro.iag.usp.br]
- V. Jordanova (Los Alamos National Laboratory, USA): Ring current and relativistic electrons [???
- M. Karlicky (Astronomical Institute Ondrejov, Czech Republic): Radio signatures of solar flare reconnection [karlicky@asu.cas.cz]
- Y. Kawata (Kyoto University, Japan): Prevention of natural disasters [kawata@drs.dpri.kyoto-u.ac.jp]
- A. Khater (Cairo University, Egypt): Nonlinear wave solutions in magnetohydrodynamic flows [khater_ah@yahoo.com]
- M. King (NASA/GSFC, USA): Observation of natural hazards [michael.d.king@nasa.gov]
- L. Lee (National Central University, Taiwan): Observations of COSMIC [loulee@cc.ncu.edu.tw]

- M. Leubner (Innsbruck University, Austria): Nonextensive entropy approach to solar wind intermittency [manfred.leubner@oeaw.ac.at]
- W. Liu (Canadian Space Agency, Canada): Observation of substorms [William.Liu@space.gc.ca]
- R. Mace (University Kwakulu Natal, South Africa): Waves in a plasma with kappa velocity distribution [macer@nu.ac.za]
- W. Macek (Space Research Centre, Poland): Chaos and multifractals in the solar wind [macek@cbk.waw.pl]
- S. Machida (Kyoto University, Japan): Geotail observations of magnetic field reconnections [machida@kugi.kyoto-u.ac.jp]
- L. Mugaard (University of Hawaii, USA): Global climate change [lorenz@hawaii.edu]
- A. Mahrous (Helwan University, Egypt): CME-flare relationship
- C. Mandrini (University of Buenos Aires, Argentina): Observation of interplanetary magnetic helicity [mandrini@iafe.uba.ar]
- G. Marklund (Royal Institute of Technology, Sweden): Alfvén waves in auroral plasmas [goran.marklund@alfvenlab.kth.se]
- P. Martinez (South African Astronomical Observatory, South Africa): Stellar seismology [peter@sao.ac.za]
- X. Moussas (University of Athens, Greece): Solar cycles [xmoussas@phys.uoa.gr]
- R. Nakamura (Space Research Institute, Austria): Cluster observations of magnetic field reconnections [rumi.nakamura@oeaw.ac.at]
- R. Opher (University of São Paulo, Brazil): Magnetic field evolution in the early universe [opher@astro.iag.usp.br]
- S. Oughton (University of Waikato, New Zealand): Nonlinear evolution of MHD turbulence in the solar atmosphere [s.oughton@math.waikato.ac.nz]
- M. Parrot (LPCE/CNRS, France): Detection of electromagnetic emissions transmitted from earthquake regions [mparrot@cns-orleans.fr]
- H. Politano (Cote D'Azur Observatory, France): MHD turbulence [politano@obs-nice.fr]
- M. Potgieter (North-West University, South Africa): Modulation of cosmic rays in the heliosphere [fskmsp@puk.ac.za]
- A. Pouquet (NCAR, USA): Solar dynamo [pouquet@ucar.edu]
- C. Ryu (Pohang University of Science and Technology, South Korea): Nonlinear beam-plasma interaction [yru201@postech.ac.kr]
- R. Shirkhodai (Pacific Disaster Center, USA): Warning of natural disasters [rshirkhodai@pdc.org]
- C. Shu (Shanghai Normal University, China): Dynamics and structures of galaxies [chenggang.shu@hotmail.com]
- R. Singh (Indian Institute of Technology, India): Monitoring ocean anomalies prior to the earthquakes using satellites [rsing3@gmu.edu]
- K. Sreenivasan (International Centre for Theoretical Physics, Italy): Fluid turbulence [director@ictp.br]
- N. Srivastava (Udaipur Solar Observatory, India): Prediction of major geomagnetic storms [n.srivastava@prl.res.in]
- K. Stasiewicz (Swedish Institute of Space Physics, Sweden): Coherent structures in space plasmas [k.stasiewicz@irfu.se]

- R. Turkmani (Imperial College, UK): Particle acceleration in flaring solar corona [r.turkmani@ic.ac.uk]
- J. Valdivia (University of Chile, Chile): Self-organization in the plasma sheet [alejo@fisica.ciencias.uchile.cl]
- U. Villante (University of L'Aquila, Italy): ULF waves in the magnetosphere and upstream bow shock [umberto.villante@aquila.infn.it]
- N. Vilmer (Meudon Observatory, France): X-ray solar flares [nicole.vilmer@obspm.fr]
- Y. Voitenko (Catholic University Leuven, Belgium): Solar corona heating by kinetic Alfvén waves [Yuriy.Voitenko@wis.kuleuven.ac.be]
- F. Wei (Center for Space Science and Applied Research, China): Magnetic reconnection in the interplanetary medium [fswei@spaceweather.ac.cn]
- G. Zank (University of California at Riverside, USA): Structure and dynamics of the heliosphere [zank@ucr.edu]
- L. Zelenyi (Space Research Institute, Russia): Complex phenomena in the magnetosphere [lzelenyi@iki.rssi.ru]

Fiftieth Anniversary of Space Exploration:

On 24-25 October 2007, WSEF 2007 will dedicate its activities to commemorate the fiftieth anniversary of the launch of Sputnik and the fiftieth anniversary of the International Geophysical Year (IGY). The following public lectures (to be confirmed) will be presented to an estimated public of 300 persons:

- D. Allemand (Scientific Director of Monaco Scientific Centre, Monaco): Activities of marine ecosystem and global climate change at Monaco Scientific Centre [allemande@centrescientifique.mc]
- M. Argon (Head of Egyptian Space Program, Egypt): Egyptian space program
- A. Assis (Director of National Nuclear Energy Commission, Brazil): Activities of environmental protection in Brazil [asassis@cnen.gov.br]
- A. Balogh (Director of International Space Science Institute, Switzerland): Activities of International Space Science Institute [balogh@issi.unibe.ch]
- M. Barbosa (Deputy Director General of UNESCO, UN): Space science and earth observation activities of UNESCO [m.barbosa@unesco.org]
- W. Baumjohann (Director of Space Research Institute, Austria): Austrian Space Program [baumjohann@oeaw.ac.at]
- P. Bellaire (National Science Foundation, USA): NSF solar-terrestrial physics program [pbellair@nsf.gov]
- G. Camara (Director General of National Institute for Space Research, Brazil): Brazilian space program [gilberto.camara@inpe.br]
- A. Chian (National Institute for Space Research, Brazil): Activities of World Institute for Space Environment Research [achian@dge.inpe.br]
- D. Cole (Director of IPS Radio and Space Services, Australia): Australian space program [david@ips.gov.au]
- M. El-Baradei (Director General of International Atomic Energy Agency, UN): Activities of environmental protection of IAEA [m.elbaradei@iaea.org]

- H. El-Naimiy (El-Emirates University, UAE and Head of the Arab Union of Space Science and Technology-Jordan): Space science activities in the Arab world
- M. El-Zaky (King Abd-Alziz City for Science and Technology, Saudi Arabia): Saudi Arabia's space program
- K. Glassmeier (Technical University of Braunschweig, Germany): German space program [kh.glassmeier@tu-bs.de]
- M. Goldstein (NASA/GSFC, USA): US space program [melvyn.goldstein@gsfc.nasa.gov]
- N. Gopalswamy (NASA/GSFC, USA): Activities of International Heliophysical Year [gopals@fugee.gsfc.nasa.gov]
- P. Janhunen (Finnish Meteorological Institute, Finland): Finnish space program [pekka.janhunen@fmi.fi]
- Y. Kawata (Director of Disaster Prevention Research Institute, Kyoto University, Japan): Activities of Disaster Prevention Research Institute [kawata@drs.dpri.kyoto-u.ac.jp]
- M. King (NASA/GSFC, USA): Activities of Earth Observatory [michael.d.king@nasa.gov]
- L. Lee (President of National Central University, Taiwan): Taiwanese space program [loulee@cc.ncu.edu.tw]
- W. Liu (Canadian Space Agency): Canadian space program [William.Liu@space.gc.ca]
- S. Machida (Kyoto University, Japan): Japanese space program [machida@kugi.kyoto-u.ac.jp]
- L. Maggaard (Director of International Center for Climate and Society, University of Hawaii, USA): Activities of International Center for Climate and Society [lorenz@hawaii.edu]
- F. Mantoura (Director of IAEA Marine Environment Laboratory, UN): Activities of marine and terrestrial environment at IAEA Marine Environment Laboratory [f.mantoura@iaea.org]
- P. Martinez (South African Astronomical Observatory, South Africa): Space science activities in Africa [peter@sao.ac.za]
- G. Mimouni (National Authority for Space Science and Technology, Alger): Algerian space program
- X. Moussas (University of Athens, Greece): Greek space program [xmoussas@phys.uoa.gr]
- M. Potgieter (North-West University, South Africa): South African space program [fskmsp@puk.ac.za]
- C. Ryu (Pohang University of Science and Technology, South Korea): South Korean space program [ryu201@postech.ac.kr]
- M. Shaltout (NRIAG, Egypt): Space and desert environment research in Egypt [mosalamshaltout@hotmail.com]
- R. Shirkhodai (Executive Director of Pacific Disaster Center, USA): Activities of Pacific Disaster Center [rshirkhodai@pdc.org]
- K. Sreenivasan (Director of International Centre for Theoretical Physics, Italy): Activities of International Centre for Theoretical Physics [director@ictp.br]
- N. Srivastava (Udaipur Solar Observatory, India): Indian space program [n.srivastava@prl.res.in]
- H. van Ginkel (Rector of United Nations University, UN): Activities of United Nations University [rector@hq.unu.edu]
- U. Villante (University of L'Aquila, Italy): Italian space program [umberto.villante@aquila.infn.it]
- N. Vilmer (Meudon Observatory, France): French space program [nicole.vilmer@obspm.fr]

- F. Wei (Center for Space Science and Applied Research, China) [fsw@spaceweather.ac.cn]: Chinese space program
- L. Zelenyi (Director of Space Research Institute, Russia): Russian space program [lzelenyi@iki.rssi.ru]