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## Publications

### *Advances in Space Research: Top Reviewers of 2012*

As with any established scientific journal, *Advances in Space Research (ASR)* insists on a rigorous peer review process to maintain the integrity and quality of published papers. An essential part of this process is the reviewer, spending his or her valuable time and using unique expertise to evaluate the scientific quality of a manuscript and help the Editor make a correct decision.

To further highlight the crucial importance of reviewers to the quality of *ASR*, the Editors have selected their 10 top reviewers for the year 2012, looking at criteria such as the number and the quality of the referee reports. By publishing the names and short biographies of these selected reviewers in this issue of *Space Research Today*, we acknowledge their valuable efforts.

At the same time we feel deeply obliged to *all ASR* reviewers who have contributed this past year who are not mentioned here, and we sincerely thank all of them for bringing the journal up to its current high standard.

Jan Laštovička  
*ASR* Editor-in-Chief

José Stoop  
Publisher, *Advances in Space Research*

## Maxim V. Klimenko



Maxim V. Klimenko was born in Kaliningrad, Russia on 4 April 1982. He received a B.S. in Physics in 2004 and a Ph.D. Numerical Modelling in 2008 at Kaliningrad State University. Now he is a Scientific Researcher at the West Department of Pushkov Institute of Terrestrial Magnetism, Ionosphere and Radio Wave Propagation (WD IZMIRAN) RAS, Kaliningrad.

His primary research has been in the field of ionospheric electrodynamics and upper atmospheric dynamics. He studied the ionospheric effects of magnetospheric substorms, storms, solar eclipses, solar flares, sudden stratospheric warming, earthquakes, and the behaviour of equatorial, mid- and high-latitude thermosphere-ionosphere-plasmasphere-electrodynamics system. He has over 30 papers in refereed journals (80% first author) and more than 30 papers in conference proceedings. He was an invited speaker in several international meetings and school on the upper atmosphere. He is a member of AGU, URSI and AOGS.

## Shuanggen Jin



Shuanggen Jin is Professor at the Shanghai Astronomical Observatory, Chinese Academy of Sciences. His main research areas include Satellite Navigation & GNSS Sensing, Remote Sensing & Climate Change, and Space/Planetary Sensing & Dynamics, etc. He has over 80 peer-reviewed journal papers in JGR, EPSL, GJI, IEEE, J. Geodesy etc., 5 books or monographs, 12 chapters/volumes and more than 100 proceeding papers.

He has been Vice-President of the International Association of Planetary Sciences (IAPS) (2011-2015), President of IAG Sub-Commission 2.6 (2011-2015), Editor-in-Chief of the *International Journal of Geosciences* (2010- ), Editor of *Journal Geodetic Science* (2010- ), Guest Editor of *Advances in Space Research* (2009- ), Guest Editor of *Journal of Geodynamics* (2012- ), member of many international programme committees and convener/chair of many international conferences and sessions.

He has received several awards including Special Prize of Korea Astronomy and Space Science Institute (2006), 100-Talent Program of Chinese Academy of Sciences (2010), Fellow of International Association of Geodesy (IAG) (2011), Shanghai Pujiang Talent Program (2011) and Fu Chengyi Award of Chinese Geophysical Society (2012).

## Rolf Bütikofer



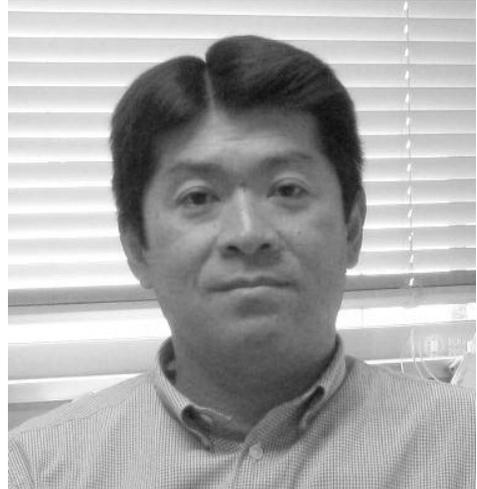
Rolf Bütikofer is affiliated with the University of Bern, where he got his Master and PhD degree and has been working as a senior cosmic ray scientist in the space research and planetary sciences research division.

His professional expertise includes analysis of cosmic ray events (Forbush decreases, solar cosmic ray ground level events), development of computer programmes to simulate the propagation of cosmic ray particles in the Earth's magnetic field.

He has vast experience in the operation of ground-based cosmic ray detectors. In the framework of the European FP7 project "NMDB" Rolf Bütikofer developed a software suite to determine the ionization rate and the radiation dose rate in the Earth's atmosphere based on the cosmic ray flux near Earth.

Rolf Bütikofer is responsible for the Swiss neutron monitors (two mountain stations--18-IGY and 3-NM64--at Jungfrauoch, and a special neutron monitor in Bern) and for the Solar Neutron Telescope at Gornergrat. Rolf Bütikofer also works for the High Altitude Research Stations Jungfrauoch and Gornergrat.

## Keiji Suzuki



Keiji Suzuki is currently an Associated Professor of the Department of Radiation Medical Sciences at Nagasaki University Graduate School of Biomedical Sciences. Dr. Suzuki has multidisciplinary research programmes that focus on basic mechanisms of cancer induced by ionizing radiation.

He and his group have identified that large deletions, expanding over several mega-bases, are the cause of chromatin structural changes, which could be involved in perpetuation and execution of radiation-induced genomic instability. He also identified DNA damage amplification, which is essential for proper execution of ATM-dependent DNA damage signalling. Dr. Suzuki has led another research group pursuing the molecular mechanism of thyroid follicular carcinogenesis induced by ionizing radiation.

## Paulo R. Fagundes



Paulo Fagundes was born in Brazil where he studied Physics at the Universidade Federal de Sao Carlos (UFSCAR), and received his PhD in 1993 from the National Institute for Space Research (INPE). In 1998, he moved to the Universidade do Vale do Paraiba (UNIVAP), where he founded the Physics & Astronomy Laboratory and an ionospheric observatory network, which is located from the equatorial to low latitude region.

His current research interests include the physics of the ionosphere and upper atmosphere, Sun-Earth relationship during geomagnetic quiet and disturbed conditions, large-scale and mesoscale equatorial F-region plasma irregularities, electrodynamics of the equatorial ionization anomaly (EIA) region, and thermosphere-ionosphere coupling via gravity waves and planetary waves.

## Jack Miller



Jack Miller received a Ph.D. in experimental relativistic heavy ion physics from the Lawrence Berkeley National Laboratory Bevalac. Research interests have included: interactions of galactic cosmic radiation and solar particles in matter and biological organisms, with applications to effects on humans in space; experimental tests of nuclear fragmentation and transport models; development of spacecraft and habitat radiation shielding; and development of radiation instrumentation for use in human space flight. This has involved experiments at accelerators at Berkeley, Brookhaven, the National Institute for Radiological Sciences, Chiba, Japan and Loma Linda University.

Recent research interests include astrobiology, and in particular what life in extreme environments on Earth can teach us about the possibilities for life elsewhere; and hadron therapy for cancer. He helped develop a beam line for radiation biology at the Brookhaven National Laboratory Alternating Gradient Synchrotron, which led to the construction of the NASA Space Radiation Laboratory at Brookhaven.

He is deeply engaged in international collaborations in space radiation research with scientists at NASA, DLR, ESA, JAXA, IMBP and other organizations worldwide.

## Pieter Visser



Pieter Visser is Associate Professor at the section Astrodynamics and Space Missions, Faculty of Aerospace Engineering, Delft University of Technology (TU Delft). His major research area is precise orbit determination for Earth orbiting satellites aiming at observing sea level and ice sheet elevation changes, the gravity and magnetic fields, and the atmosphere and thermosphere.

He received his Ph.D. degree in 1992 at TU Delft. He spent one year as an exchange visitor at the Center for Space Research, University of Texas at Austin. Since then, he has held several postdoc and faculty positions at TU Delft.

He has been member of science and mission advisory groups for the European Space Agency. In addition, he has been active in several commissions, panels and study groups of the International Association of Geodesy (IAG) and the Committee on Space Research (COSPAR).

## Stanimir M. Stankov



Stanimir Stankov is a Research Scientist at the Royal Meteorological Institute (RMI), Belgium, having previously worked at German Aerospace Center (DLR), Compagnie Generale de Geophysique (CGG), and Bulgarian Academy of Sciences (BAS). He holds a M.Sc. (Mathematics) from University of Sofia and a Ph.D. (Space Physics) degree from Bulgarian Academy of Sciences.

During his more than twenty years of professional experience, he has been directly involved in numerous research projects pertaining to advanced mathematical applications to ionospheric research and modelling, ionospheric storm studies, real-time geomagnetic and ionospheric specification, ionospheric effects on GNSS-based positioning and navigation, etc.

Dr. Stankov has authored many publications in international journals and conference proceedings, as well as a pending patent on the determination of an atmospheric state. He has won several awards for his research, most recently – the best paper award at the 13th International Ionospheric Effects Symposium 2011, held in Alexandria, USA.

**John C. Ries**



John Ries is a senior research scientist at the Center for Space Research at the University of Texas at Austin. His research interests include orbit mechanics, geodesy, relativity, and the application of computers and computational techniques to the solution of problems in those areas.

He has worked with laser range, altimeter, and Doppler data from numerous satellites, including LAGEOS-1/-2, Starlette, Stella, Ajisai, SeaSat, ERS-1/-2, SPOT-2, TOPEX/POSEIDON, and Jason-1. His current research efforts are focused on improving gravity model determination for the Gravity Recovery and Climate Experiment (GRACE) and reference frame determination from laser ranging data.

**John W. Mitchell**



John Mitchell is Head of the High Energy Cosmic Radiations group in the Astrophysics Science Division (ASD) at NASA Goddard Space Flight Center. He is the NASA PI for BESS, GSFC PI for Super-TIGER, CREAM, and CALET-US, Deputy Project Scientist for the NASA Scientific Balloon Program and has been ASD Chief Technologist.

His research interests include experimental high-energy cosmic-ray and gamma-ray astrophysics, nuclear and particle physics, and development of advanced detectors.

He has investigated the origins of cosmic-ray antiprotons and searched for anti-nuclei using balloon-borne superconducting magnet spectrometers, establishing the secondary origin of low-energy antiprotons and setting stringent upper limits on primordial antihelium. He has also probed cosmic-ray origins and transport with balloon instruments. He is an expert in detectors, electronics, and experiment design and has designed and built high-performance experiment systems for cosmic ray instruments (SMILI, MASS2, TS93, CAPRICE94/98, IMAX, ISOMAX, BESS-Polar I/II, and Super-TIGER) and for high-energy nuclear and particle physics experiments at Lawrence Berkeley National Laboratory and Brookhaven National Laboratory. He has led NASA and JAXA test programmes at the CERN SPS.