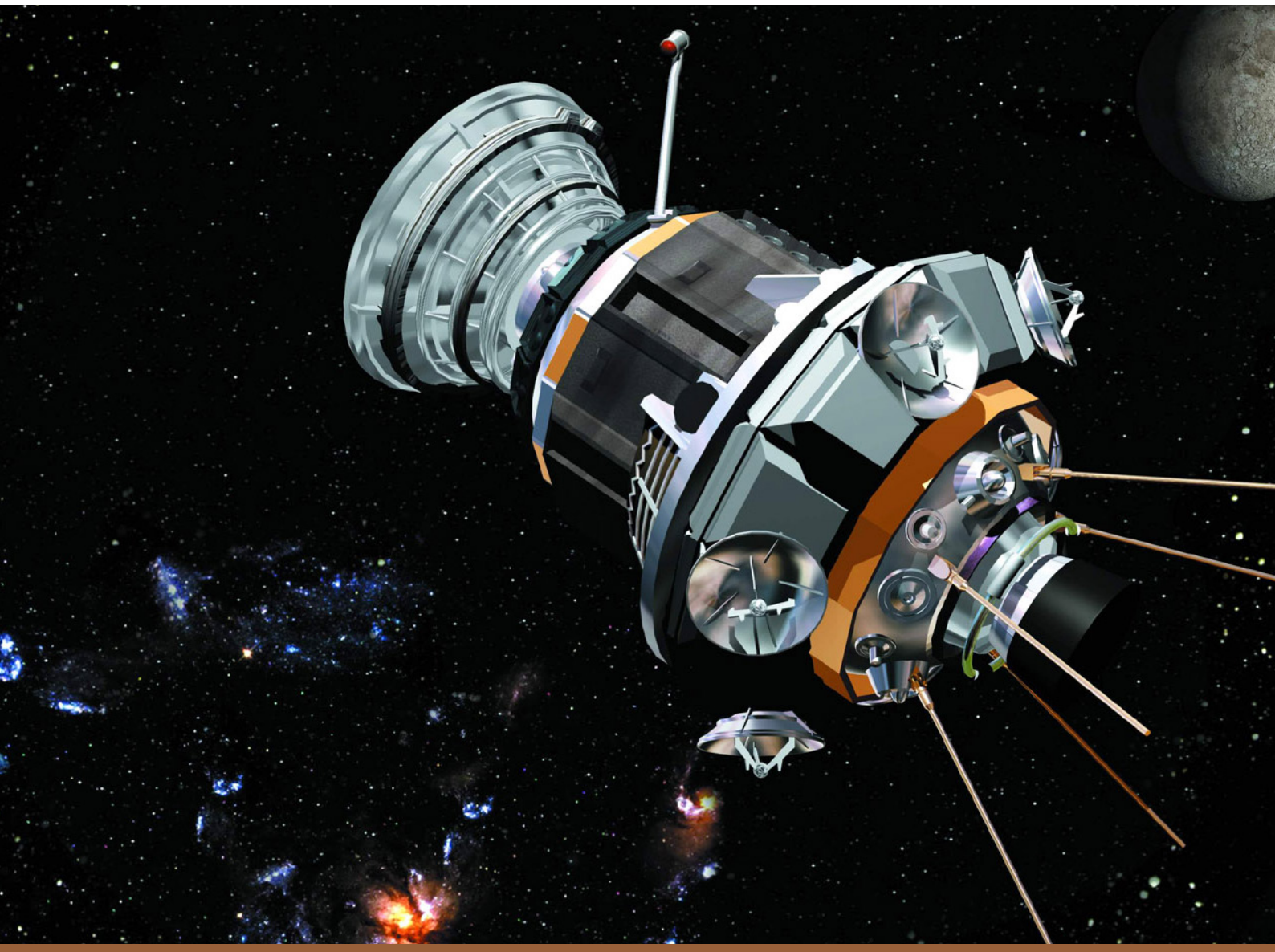
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Scientific Program

3rd International Conference and Exhibition on

Satellite & Space Missions

May 11-13, 2017 Barcelona, Spain



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Day 1 May 11, 2017

08:00-08:30 Registrations

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conferenceseries.com 08:30-09:00 **Opening Ceremony**

Keynote Forum

09:00-09:05	**Introduction**
09:05-09:45	**Title: A new era of planetary exploration with small satellite platforms** **Benjamin K Malphrus,** Morehead State University, USA
09:45-10:25	**Title: Space research at AFOSR** **Kent Miller,** Air Force Office of Scientific Research, USA
10:25-11:05	**Title: Post-ISS concept for 2025 and beyond** **Oliver Romberg,** German Aerospace Center, Germany

Networking & Refreshments 11:05-11:25 @ Meeting Halls

Group Photo

Sessions: Space Missions | Space exploration | Earth Observation Satellites | Satellite Orbits: Models, Methods, and Applications | Weather Satellites | Satellite Navigation and Communication | Mobile Satellite Communication Networks | Space Weather | Earth Science

Session Chair: Nicolas H Younan, Mississippi State University, USA
Session Co-chair: Joseph Seckbach, The Hebrew University of Jerusalem, Israel

Session Introduction

11:25-11:45	**Title: Lunar IceCube: Pioneering technologies for interplanetary small satellite exploration** **Benjamin K Malphrus,** Morehead State University, USA
11:45-12:05	**Title: Electron photoavalanche diode arrays: A new technology for noiseless high speed near infrared sensors** **Gert Finger,** European Southern Observatory, Germany
12:05-12:25	**Title: Nanosatellites, the tool for a new economy of space: Opening space frontiers to a wider audience** **Gloria Garcia Cuadrado,** Celestia Aerospace, Spain
12:25-12:45	**Title: Research methodology in mechanical systems and bionics from Plato to contemporary science** **Simona-Mariana Cretu,** University of Craiova, Romania
12:45-13:05	**Title: SUCHAI 2 and 3: Scientific grounds and challenges of the new space mission of the University of Chile** **Marcos A Diaz,** University of Chile, Chile

Lunch Break 13:05-13:45 @ Mediteraneo

13:45-14:05	**Title: Proposals on multi-channel methods for the simultaneous remote sensing of [$O(^3P)$], [O_3] and [CO_2] altitude profiles in the mesosphere and lower thermosphere in daytime** **Valentine A Yankovsky,** St. Petersburg State University, Russia
14:05-14-25	**Title: Single-satellite global positioning system** **Alexander V Bagrov,** Institute of Astronomy of the Russian Academy of Sciences (INASAN), Russia
14:25-14:45	**Title: Optimal detection of changes in real-time data: Applications in satellites** **Peter Johnson,** University of Manchester, UK
14:45-15:05	**Title: Using Object Based Image Analysis to monitor soil aggregate breakdown under natural conditions** **Irena Ymeti,** University of Twente, Netherlands

15:05-15:25	**Title: Space exploration: A matter for governments or for private operators** **Giancarlo Genta,** Polytechnic University of Turin, Italy
15:25-15:55	**Title: Hypothetical discovery of life on Venus** **Leonid V Ksanfomality,** Space Research Institute, Russia
	Networking & Refreshments 15:55-16:15 @ Meeting Halls
16:15-16:35	**Title: AURORA project: A challenge for synergistic exploitation of Sentinel-4/-5 ozone operational products** **Ugo Cortesi,** Institute for Applied Physics "Nello Carrara" (IFAC-CNR), Italy
16:35-16:55	**Title: Micro-Satellite hosted laser-gated system for space debris tracking, forest fires and plants' health monitoring and underground facilities' location** **Yavor Yossifov Shopov,** Sofia University, Bulgaria
16:55-17:15	**Title: Necklaces theory applied to satellite constellation design** **Eva Tresaco,** University of Zaragoza, Spain
17:15-17:35	**Title: Spatial technology: Hydrological perspectives** **Imran Ahmad,** Debre Tabor University, Ethiopia
17:35-17:55	**Title: Future intelligent earth observing satellites** **George Zhou,** Guilin University of Technology, China
	Panel Discussion

Day 2 May 12, 2017

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Keynote Forum

09:00-09:05	**Introduction**
09:05-09:45	**Title: High resolution satellite precipitation estimation based on cloud classification** **Nicolas H Younan,** Mississippi State University, USA
09:45-10:25	**Title: Visual analysis on multidimensional massive data** **Dorian Gorgan,** Technical University of Cluj-Napoca, Romania
10:25-11:05	**Title: Unified satellite image fusion for sustainable urban environment** **Bo Huang,** Chinese University of Hong Kong, Hong Kong
	Networking & Refreshments 11:05-11:25 @ Meeting Halls
11:25-12:05	**Title: Fundamental principles of gyroscope theory** **Ryspek Usubamatov,** Kyrgyz State Technical University, Kyrgyzstan

Sessions: Remote Sensing Satellites and GIS | Aerospace and Mechanical Engineering | Asteroid Impact Mission (AIM) | Earthquake and Structural Dynamics | Space Weather | Military Satellites | Orbital Mechanics | Materials Science in Space

Session Chair: Gloria Garcia-Cuadrado, Celestia Aerospace, Spain
Session Co-chair: Dorian Gorgan, Technical University of Cluj-Napoca, Romania

	Session Introduction
12:05-12:25	**Title: Engaging the user community in developing Earth observing remote sensing data products** **Vanessa M Escobar,** NASA Goddard Space Flight Center, USA
12:25-12:45	**Title: Is there life on planets and satellites? Examples from extremophilic candidates on earth** **Joseph Seckbach,** Hebrew University of Jerusalem, Israel
12:45-13:05	**Title: Modeling the space environment and its effects on spacecraft and astronauts using SPENVIS** **Stijn Calders,** Royal Belgian Institute for Space Aeronomy, Belgium
	Lunch Break 13:05-13:45 @ Mediteraneo
13:45-14:05	**Title: New technologies applied to environmental remote sensing** **Emilio Ramírez-Juidías,** University of Seville, Spain

14:05-14:25	**Title: Mars the harbinger of human survival** **Donald C Barker,** MAXD Inc., USA
14:25-14:45	**Title: Application of remote sensing in mapping potential gold mineralization in Muteh gold mining area, Iran** **Hooshang Asadi Haroni,** The University of Western Australia, Australia
14:45-15:05	**Title: The panorama of European launchers and their evolution** **Jean-Marc Astorg,** National Center for Space Studies (CNES), France
15:05-15:25	**Title: An online batch-based fusion filter for navigation in Mars final approach phase** **Zhengshi Yu,** Beijing Institute of Technology, China
Networking & Refreshments+ Poster Presentations 15:25-15:55 @ Meeting Halls	
REC 01	**Title: Current status of development of solar coronagraph system** **Jihun Kim,** Korea Astronomy & Space Science Institute, South Korea
REC 02	**Title: Hamiltonian model of formation flying satellites in the critical circular orbits** **Shaheera A Altalhi,** King Abdul-Aziz University, KSA
REC 03	**Title: The combined Kepler 3rd law with universal stellar law: Derivation and application to extra solar systems investigation** **Alexander M Krot,** United Institute of Informatics Problems-NAS, Belarus
REC 04	**Title: Non-rocket launch from Mars** **Vladislav A Leonov,** Institute of Astronomy of the Russian Academy of Sciences (INASAN), Russia
REC 05	**Title: Solar 3-D printer for lunar construction** **Valentin K Sysoev,** Lavochkin Association, Russia
Session Continues…	
15:55-16:15	**Title: Sequential quadratic programming and metaheuristic methods applied to low-thrust interplanetary transfers** **Porzia Federica Maffione,** Polytechnic University of Turin, Italy
16:15-16:35	**Title: Using of thermal vision cameras for remote location of caves on Mars for immediate shelters for astronauts and storage chambers** **Yavor Yossifov Shopov,** Sofia University, Bulgaria
16:35-16:55	**Title: Flying Vehicles (FV) for air and space medium, which reactive force is generated by acceleration of electrically charged particles in a constant electric field implemented both inside and outside of the FV** **Gennady Semenovich Luk'yanchikov,** Prokhorov General Physics Institute-RAS, Russia
16:55-17:15	**Title: The evolvement of the university orbital constellation of small satellites series AIST for scientific, educational and applied tasks in the field of remote sensing** **Ivan S Tkachenko,** Samara University, Russia
17:15-17:35	**Title: Forcing of sunspot number oscillations on North Atlantic oscillations** **Shahinaz Yousef,** Cairo University, Egypt
17:35-17:55	**Title: Evolution of mission, design and utilization trends of small and miniaturized satellites in developing countries** **Mohamed B Argoun,** Cairo University, Egypt
Day 3 May 13, 2017	
Extended Networking Session	
Award & Closing Ceremony	

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