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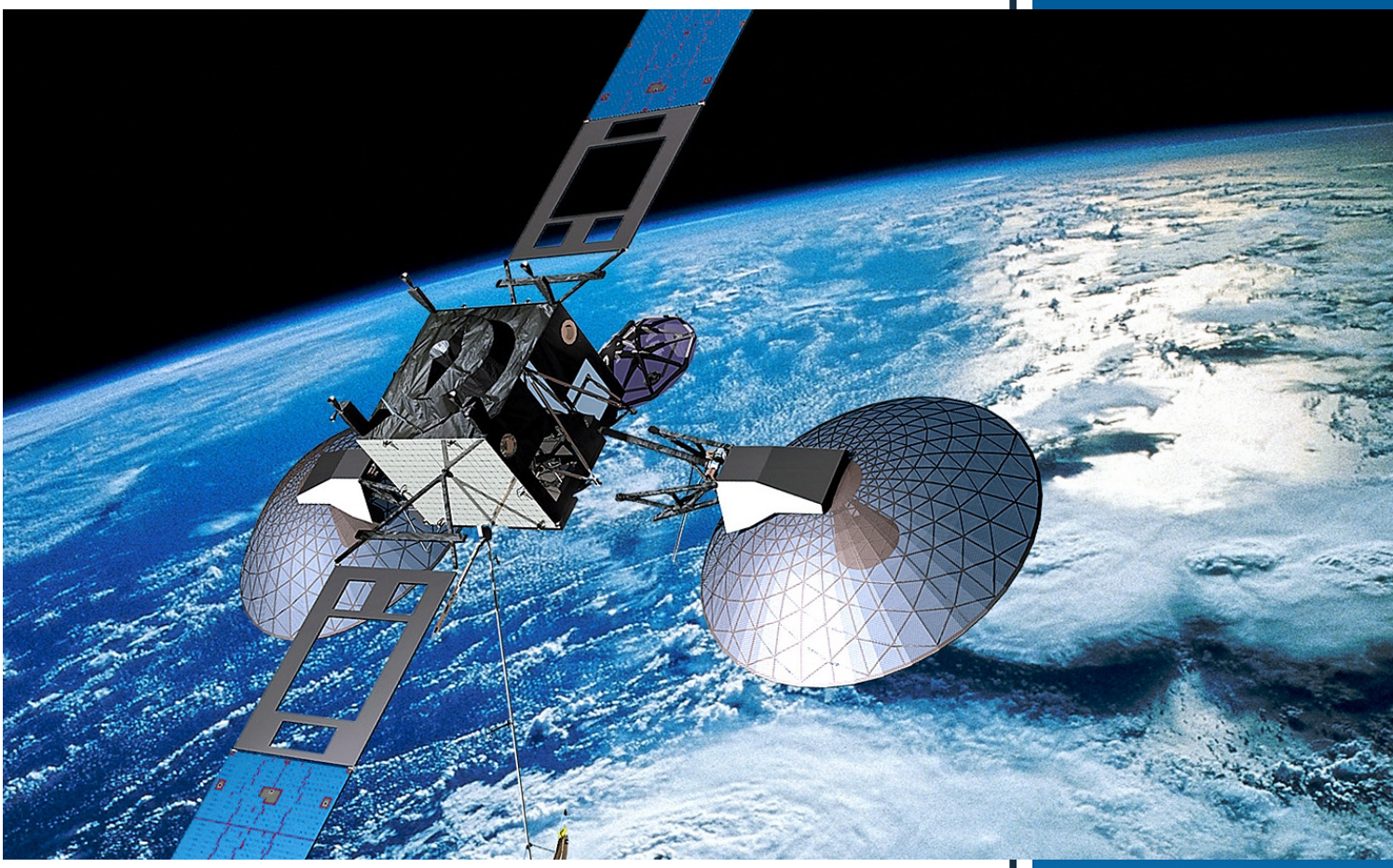
Scientific Program

International Conference and Exhibition on

Satellite

Houston, USA August 17-19, 2015

340th OMICS International Conference



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Proposals are invited for organizing Symposia/Workshops at OMICS International Conferences or OMICS Group will sponsor small events at your universities in related areas under the title of your own. These proposals can be sent to respective conference mail ids or to *symposia@omicsonline.org*

OMICS International Conferences

5716 Corsa Ave., Suite 110, Westlake Los Angeles, CA 91362-7354, USA

Phone: +1-650-268-9744, Fax: +1-650-618-1414, Toll free: +1-800-216-6499

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Day 1 August 17, 2015

08:00-09:00 **Registrations**

Windsor-II

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09:00-09:30 **Opening Ceremony**

Keynote Forum

09:30-09:35 **Introduction**

09:35-10:10 **Guoquan Wang**
University of Houston, USA

10:10-10:45 **Yi Lung Mo**
University of Houston, USA

Coffee Break 10:45-11:05 @ Gallery

11:05-11:40 **David Olowokere**
Texas Southern University, USA

Group Photo

Track 1: Satellite Engineering & Technology
Track 12: Integral Manoeuvres for the Future
Track 13: Vibration Design and Satellite Remote Sensing

Session Chair: Yi Lung Mo, University of Houston, USA
Session Co-Chair: Hyongki Lee, University of Houston, USA

Session Introduction

11:40-12:05 **Periodic material-based vibration isolation for satellites**
Yi Lung Mo, University of Houston, USA

12:05-12:30 **Applications of satellite remote sensing for hydrologic studies**
Hyongki Lee, University of Houston, USA

12:30-12:55 **Introduction to GPS geodesy infrastructure in the Houston metropolitan area for urban geological hazards study**
Guoquan Wang, University of Houston, USA

Lunch Break 12:55-13:45 @ Windsor-III

13:45-14:10 **Case study of satellite-based AIS system for continuous tracking at sea of global movement of Nigerian liquefied natural gas**
David Olowokere, Texas Southern University, USA

14:10-14:35 **Improving BIM as an architectural design tool towards sustainability through applying LEED categories on its database**
Wael Ahmed Abonema, Helwan University, Egypt

14:35-15:00 **Thermo-electrochemical testing and simulation of lithium-ion batteries operating in radiation driven space environments**
William Walker, National Aeronautics and Space Administration, USA

15:00-15:25 **Satellite launch and in-orbit insurance**
Robert P Whearty, Marsh Space Projects, USA

Coffee Break 15:25-15:45 @ Gallery

15:45-16:10 **India's first Moon and Mars missions orbit determination**
Narayanasetti Venkata Vighnesam, Visvesvaraya Technological University, India

16:10-16:35 **A time domain along-track SAR interferometry method**
Ning Cao, University of Houston, USA

16:35-17:00 **Diffusion modeling of water flow in the Congo floodplains using geodetic and remote sensing measurements**
Ting Yuan, University of Houston, USA

17:00-17:25 **Comparison analysis of global horizontal irradiance between Korea Institute of Energy Research and NASA**
Shin Young Kim, Korea University, Korea

Panel Discussion

Day 2 August 18, 2015

Windsor-II

Keynote Forum

09:30-09:35 **Introduction**

09:35-10:10 **Dimitar Ouzounov**
Chapman University, USA

10:10-10:45 **Dorian Gorgan**
Technical University of Cluj-Napoca, Romania

Coffee Break 10:45-11:05 @ Gallery

Track 2: Satellite Navigational Systems
Track 3: Types of Satellites & Applications
Track 4: Satellite Subsystems
Trcak 5: Space Missions
Track 6: Military and Non-Military Satellite Technology

Session Chair: Dorian Gorgan, Technical University of Cluj-Napoca, Romania
Session Co-Chair: Luiz Sampaio Athayde Junior, Federal University of Bahia, Brazil

Session Introduction

11:05-11:30 **Testing geospace technologies for alerting large earthquakes: An integrated approach of space and ground observations**
Dimitar Ouzounov, Chapman University, USA

11:30-11:55 **Geodetic imaging technologies for research and education**
Ramesh L Shrestha, University of Houston, USA

11:55-12:20 **Paradoxical variation of the solar day related to Kepler/ Newton system: The Solar Zenith Theory**
Luiz Sampaio Athayde Junior, Federal University of Bahia, Brazil

12:20-12:45 **Flexible and adaptive processing of Earth observation data over high performance computation architectures**
Dorian Gorgan, Technical University of Cluj-Napoca, Romania

Lunch Break 12:45-13:35 @ Windsor-III

13:35-14:00 **The conceptual project of the geophysical microsatellite**
Matviyenko Sergiy Anatoliyovich, State enterprise "Design office" Yuzhnoye "of M.K.Jangel", Ukraine

14:00-14:25 **ARD (Alpha-Ray Detector) on board SELENE : Design, in-orbit performance and scientific outcome**
Masayuki Itoh, Kobe University, Japan

14:25-14:50 **A GUI for optimization of low-thrust trajectories for nuclear and solar electric propulsion**
Porzia Federica Maffione, Polytechnic of Turin, Italy

14:50-15:15 **Optimized image collection planning for KOMPSAT**
Heejin Bae, KARI (Korea Aerospace Research Institute), Korea

Coffee Break 15:15-15:35 @ Gallery

15:35-16:00 **The use of satellites in the border security**
Ali Emre Destegul, Turkish Air War College, Turkey

16:00-16:25 **Will high-altitude long-endurance (HALE) UAVS replace satellites?**
Lt. Abdullah Kaya, Turkish Air War College, Turkey

Panel Discussion

Day 3 August 19, 2015

Churchill

Track 7: New Satellite Technologies for Cleaner Low Orbits
Track 10: Applications of Satellite Technology
Track 11: Satellite Challenges and Solutions

Session Chair: Ruisong Xu, Chinese Academy of Sciences, China

Session Co-Chair: Antonio G Accettura, OHB System AG, Germany

Session Introduction

10:00-10:25	**Algorithms for optimal scheduling of multiple spacecraft maneuvers** **Atri Dutta,** Wichita State University, USA
10:25-10:50	**Future telecomsats as a new paradigm for satellite industries and operators** **Antonio G Accettura,** OHB System AG, Germany

Coffee Break 10:50-11:10 @ Gallery

11:10-11:35	**Protected Antipode Circle (PAC) on the far side of the Moon** **Claudio Maccone,** International Academy of Astronautics(IAA), Italy
11:35-12:00	**Remote sensing monitoring and driving force analysis of urban expansion in Guangzhou City, China** **Ruisong Xu,** Chinese Academy of Sciences, China
12:00-12:25	**GNSS positioning availability control under space weather hazards** **Vladislav V Demyanov,** Irkutsk State Transport University, Russia
12:25-12:50	**Enhancing LEED as a sustainable rating system by applying its regional priority for all environmental regions** **Wael Ahmed Abonema,** Helwan University, Egypt

Lunch Break 12:50-13:40 @ Windsor-III

13:40-14:05	**Reliability and cost effectiveness of spacecraft attitude and orbit monitoring** **Tamer Mekky Ahmed Habib,** National Authority for Remote Sensing and Space Sciences, Egypt
14:05-14:30	**Mitigating the effects of rain-induced fading in Ka-band satellite video broadcast system using time diversity in concert with maximal ratio combining** **Leshan Uggalla,** University of South Wales, UK
14:30-14:55	**Estimating total suspended sediment (TSS) budget of a freshwater lake using remote sensing** **Essayas Kaba Ayana,** Columbia University, Columbia
14:55-15:20	**Conceptual design of manned space transportation vehicle using laser thruster in combination with H-II rocket** **Yoshinari Minami,** Advanced Science-Technology Research Organization, Japan
15:20-15:45	**Electrodynamics of new submillimeter transmission lines based on flat waveguide splitters** **Alexander G. Yushchenko,** National Technical University, Ukraine

Panel Discussion

Award Ceremony

Coffee Break 15:45-16:10 @ Gallery

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2nd International Conference and Exhibition on

Satellite & Space Missions

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OMICS Group Inc.
2360 Corporate Circle, Suite 400
Henderson, NV 89074-7722, USA
Ph: +1-888-843-8169
Fax: +1-650-618-1417
contact@omicsgroup.com

OMICS International
5716 Corsa Ave., Suite 110, Westlake
Los Angeles, CA 91362-7354, USA
Ph: +1-650-268-9744
Fax: +1-650-618-1414
contact.americas@omicsonline.org

OMICS Group
SEZ Unit, Building No. 20, 9th Floor
APIIC Layout, HITEC City
Hyderabad-500081, Telangana, INDIA
Ph: 040-40131823, 040-47482222
contact.asiapacific@omicsonline.org

Toll free
USA & Canada: +1-800-216-6499
Australia: +1-800-651-097
Europe: 0805-080048