



## 6<sup>th</sup> IAA Conference on Space Systems as Critical Infrastructure

### Disruptive innovation and critical space infrastructure

3-4 August 2017

Poseidon B Hall, 1st floor, Hotel Zenith Conference, Mamaia, Romania

Draft agenda (v. 02 August 2017)

#### **Thursday 03.08.2017**

09:00 - 09:30            *Registration*

09:30 - 10:00        Welcoming remarks Mr. Marius-loan Piso, ROSA

**10:00 - 13:00        Session 1: Space Systems as Critical Infrastructure**

***Moderator: Mr. Adrian Gheorghe, Old Dominion University, USA***

IAA Study Group 5.13

Status Report

Adrian GHEORGHE et al

Internet of Space: Issues for a System of Systems Engineering Approach

Marius-Eugen OPRAN

Space Communications and Cyber Security. A new category of threats: Directed Energy Systems

13:00-14:30            *Working Lunch – Restaurant H. Zenith*

**14:30-16:00        Session 2: Mega-constellations, Nano-satellites, Nano-launchers**

***Moderator: Mr. Marius-loan Piso, ROSA***

Silvana Radu

In Orbit Demonstration Satellite Program

Mihai GANCIU

Lasers for radiation hardness evaluation – applications for nano-satellites

Bogdan MIHALCEA et al	Nano-satellites for space, quantum science and national security. Optical Atomic Clocks
Roberto SCAGNOLI	The impact of planned mega-constellations on traditional satellite communication systems
Alexandru BADEA, Ion NEDELUCU	Nano-satellites for the exploitation of natural and man-made ecosystems for food security and environment (TBC)
Adrian GHEORGHE et al	The sand & the space critical infrastructure

**16:00-17:30**

**Session 3: Persistent communication and surveillance systems, orbital bodies removal**

***Moderator: Mr. Marius Eugen Opran, ROSA***

Mihai DATCU	RADAR systems for space debris monitoring: overview and perspectives
Mircea CERNAT, Ulpia BOTEZATU	Upcoming European programs on communication satellites and space situational awareness
Claudiu TEODORESCU (Deimos)	Improved NEO data processing Capabilities for the ESA SSA-NEO software system
Alexandru GEORGESCU	The Space Vulnerability Cadaster
Calin POPOVICI	Healthcare situations and critical space infrastructures

19:00

*Dinner – Restaurant H. Zenith*

**Friday 04.08.2017**

**09:30- 12:00**

**Round Table**

Panelists: Marius-Ioan Piso, Adrian Gheorghe, Marius Eugen Opran, Alexandru Badea