



6th 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. 01 August 2017)

Thursday 03.08.2017

09:00 - 09:30 *Registration*

09:30 - 10:00 Welcoming remarks Mr. Marius-Ioan 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-Ioan 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 NEDELCU	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