

# 1<sup>st</sup> Conference on Space Science and Technology in Serbia

## Programme May 12 – 15, 2026

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### **Tuesday, May 12**

12:00 – 14:00 - Arrival and registration

14:00 – 14:30 - Opening ceremony

### **Chair: L. Č. Popović**

14:30 – 15:00 - Tian Tan: *STRATEGIC COOPERATION BETWEEN SERBIA AND CHINA IN SPACE DEVELOPMENT*

15:00 – 15:30 - Milan Stojanović: *MOSAIC – THE FIRST SCIENTIFIC SERBIAN SATELLITE: STATUS UPDATE*

15:30 – 16:00 - Milan Randelović: *FROM REGIONAL INNOVATION HUB TO SPACE – READY ECOSYSTEM: BUILDING VIRTUAL CENTERS OF EXCELLENCE FOR THE FUTURE OF SPACE RESEARCH*

16:00 – 16:30 - *Coffee break*

### **Chair: Jelena Svorcan**

16:30 – 17:00 - Ognjen Peković: *LEGACY AND THE FUTURE: THE EVOLUTION OF THE DEPARTMENT OF AEROSPACE ENGINEERING*

17:00 – 17:30 - Igor Stojković and Biljana Ilić: *SERBIA'S STRATEGIC PATH TO ESA COOPERATION: ENGINEERING OPPORTUNITIES, CASE STUDIES AND POLICY RECOMMENDATIONS*

17:30 – 18:00 - David Perillo, M. Tacconi, C. Bernal and G. Bagnai: *LAUNCHERSCANNER: A CURATED SPACE MARKETPLACE WITH TECHNICAL MATCHMAKING FOR MISSION SUPPORT*

18:00 – 18:30 - Dušan Marčeta: *AERODYNAMICS IN LOW EARTH ORBIT*

19:00 – 21:00 - *Welcome cocktail*

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### Wednesday, May 13

#### *Chair: Mila Popović*

09:00 – 09:30 - Rui Zhu, X. Wang, J. Zhao and I. Kovacic: *LOW-FREQUENCY BROADBAND VIBRATION ISOLATION OF AEROSPACE STRUCTURES BASED ON METASTRUCTURES*

09:30 – 10:00 - Zlatica Marinkovic, B. Stosic, M. Milijic, G. Tagliapietra and J. Iannacci: *AI-DRIVEN MODELING OF ULTRA-LOW POWER RF-MEMS SWITCHES FOR 6G AND FUTURE SPACE NETWORKS*

10:00 – 10:30 - Jelena Svorcan and M. Sakib Hasan: *MOST RECENT ADVANCES IN HALE AIR VEHICLES*

10:30 – 11:00 - *Coffee break*

#### *Chair: Rui Zhu*

12:00 – 12:20 - Wenqiang Du, H. Zhu and H. Teng: *NON-PREMIXED COMBUSTION AND SELF-SUSTAINING MECHANISM OF A RAMJET ROTATING DETONATION ENGINE*

12:20 – 12:40 - Saša Topić: *PHOTONIC SOLUTIONS FOR NEXT GENERATION GROUND BASED ASTRONOMICAL INSTRUMENTATION*

12:40 – 13:00 - Kristina Vukosavljević: *SPACE ROBOTICS FOR ORBITAL SUSTAINABILITY: ENABLING ACTIVE DEBRIS REMOVAL AND ON-ORBIT SERVICING*

13:00 – 13:20 - Mihai Boni, M. L. Pascu, M. Balan, et al.: *BINARY MILLIMETRIC DROPLET COALESCENCE UNDER MICROGRAVITY CONDITIONS ON ISS*

13:20 – 13:40 - Isidora Stanković, B. Simović, B. Ilić, M. Samardžić, G. Ocokoljić: *WIND TUNNEL STUDY OF SIDE JET TECHNOLOGY: IMPLICATIONS FOR REENTRY BODY CONTROL*

14:00 – 16:00 - *Lunch break time*

**16:00 – 19:00 - *Thematic excursion***

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### Thursday, May 14

#### **Chair: Zlatica Marinković**

09:00 – 09:30 – Marin Nedelchev: *SIGNAL INTEGRITY UNDER FIRE: RF IMPAIRMENTS IN HIGH-THROUGHPUT LEO SATELLITE LINKS*

09:30 – 10:00 – Vesna Blagojević: *BROADBAND SATELLITE SYSTEMS AND THEIR EVOLUTION TOWARD INTEGRATED TERRESTRIAL-SATELLITE NETWORK ARCHITECTURES*

10:00 – 10:30 - *Coffee break*

#### **Chair: Tian Tan**

10:30 – 11:00 - Artem Mokhnatkin: *TOWARD COOPERATIVE SPACE SAFETY BRIDGING DATA, INFRASTRUCTURE, AND TRUST*

11:00 – 11:30 - Zoran Tomić: *EMERGING SPACE ECONOMY IN SERBIA: POLICY GAPS, INSTITUTIONAL DESIGN, AND STRATEGIC PATHWAYS FOR INTEGRATION INTO THE GLOBAL SPACE SECTOR*

11:30 – 12:00 - Milan Bogosavljević: *FROM MISSIONS TO CAPABILITY: WHAT WE CAN LEARN FROM THE UNITED ARAB EMIRATES*

12:00 – 12:30 - *Coffee break*

#### **Chair: Milan Randelović**

12:30 – 13:00 - Anja Nakarada Pecujlic: *HOW TO MAKE A SPACE COMPANY IN THE BALKANS, CASE STUDY: ENDUROSAT*

13:00 – 13:30 - Milan M. Ćirković: *SPACE POLICY, NEWSPACE AND THE THREAT OF SPACE SKEPTICISM*

13:30 – 14:00 - Tamara Blagojević and Filip Jovičević: *A PATHWAY TO THE SPACE SECTOR – A COUNTRY BLUEPRINT*

14:00 – 15:30 - *Lunch break time*

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**Chair: Vesna Blagojević**

15:30 – 16:00 - Ivan Kokić: *SPACE COMMUNICATIONS – A HISTORICAL OVERVIEW AND CURRENT TRENDS*

16:00 – 16:30 - G. Gancio, G. E. Romero, H. Command, E. Fliger, F. Hauscarriaga, M. Salibe, P. Benaglia and L. Garcia: *LARA – DEVELOPMENT AND EARLY HARDWARE VALIDATION OF A LOW-FREQUENCY RADIO ASTRONOMY PAYLOAD FOR LUNAR ORBIT*

16:30 – 17:00 - *Coffee break*

**Chair: Toni Ivanov**

17:00 – 17:20 - Matteo Tacconi, M. Balan, A. Hulea et al.: *DROP COAL – ENGINEERING DESIGN AND ADAPTATION FOR ISS AND NYX MICROGRAVITY OPERATIONS*

17:20 – 17:40 - Nikola Zgonjanin and Nikola Tasic: *KOSMOPROJEKT D.O.O. – CUBESAT RESEARCH, DEVELOPMENT, AND AGRICULTURAL APPLICATIONS*

17:40 – 18:00 - Vladimir Gašić: *POLDIV – THE AURORA PROBE*

20:00 – *Conference Dinner*

### **Friday, May 15**

**Chair: Milan Stojanović**

09:00 – 09:30 - Ivaylo Nachev, I. Iliev, Y. Velchev, B. Bonev and P. Z. Petkov: *SPACE WEATHER RESEARCH FROM BULGARIAN ANTARCTIC BASE*

09:30 – 10:00 - Dajana Bjelajac, S. Samurović, R. Pavlović, B. Rovčanin, Z. Cvetković, D. Lukić, Z. Simić, G. Damljanović: *SPATIO-TEMPORAL ANALYSIS OF ARTIFICIAL LIGHTING AT NIGHT BASED ON ANNUAL VIIRS DATA: A CASE STUDY OF BELGRADE AND PROKUPLJE*

10:00 – 10:20 - Vuk Maksić: *BUILDING THE FUTURE OF SPACE EXPLORATION: HOW STUDENTS IN SERBIA ARE DEVELOPING SPACE SYSTEMS*

10:20 – 10:40 - *Coffee break*

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**Chair: Dajana Bjelajac**

10:40 – 11:00 - Zorana Z. Dančuo: *AN ALUMNI GUIDE TO THE IAF ESL GRANT WITH NASA TECHNICAL MENTORSHIP*

11:00 – 11:20 - Damnjan Milić and Igor Mandarić: *COMPARATIVE ANALYSIS OF DEEP LEARNING FOR PIXEL-LEVEL ILLEGAL DUMPSITE DETECTION USING SENTINEL-2*

11:20 – 11:40 - Milan Protić and Vladimir Parezanović: *PREDICTING THE THREE-DIMENSIONAL BLUFF BODY WAKE FLOWS USING PINN*

11:40 – 12:00 - *Coffee break*

**Chair: Vladimir Parezanović**

12:00 – 12:20 - Igor Planjanin, Milan Stojanović and Ivan Kokić: *TESTING OF X-RAY DETECTION IN TURBULENT FLOW FOR SPACE APPLICATIONS USING SILICON DRIFT DETECTOR*

12:20 – 12:40 - Mila Popović, Aleksandar Brkić and Ivan Kokić: *INTEGRATION OF A uCAM-III OPTICAL CAMERA IN THE MOSAIC CUBESAT: PROGRESS AND NEXT STEPS*

12:40 – 13:00 - Saša Topić: *SERBIA PHOTONICS: COMPANY OVERVIEW WITH EMPHASIS ON OPTICAL GROUND STATIONS*

13:00 – 13:15 - ***Closing ceremony***