H-SPACE 2024, April 25-26 - PROGRAM, as of April 17, 2024

https://space.bme.hu

Day 1, April 25 (hybrid: presenters in person in Budapest, participants in person and online)

13:00	Onsite registration is open			
14:00	Opening	*Session chair: László Bacsárdi*		
		Hassan Charaf, dean, BME Faculty of Electrical Engineering and Informatics		
		Orsolya Ferencz, Ministerial Commissioner for Space Research, Ministry of Foreign Affairs and Trade		
		Kálmán Kovács, President, Hungarian Astronautical Society		
14:15	Keynote 1	*tbc*		
14:40	Keynote 2	Small satellites - Finnish road from education to science and business		
		Jaan Praks, Aalto University, Finland		
15:05	Keynote 3	PocketQubes: A New Frontier in Space Education		
		Caius Reza, Alba Orbital, Glasgow, United Kingdom		
15:30	Poster highlight talks			
16:00	Coffee break and poster session			
16:45	Session Science and Technology 1			12 min talk + 3 min Q&A
	Session Char:	*Lóránt Földváry, Budapest University of Technology and Economics*		
	Talk 1	53	Péter Vári	The future of satellite frequency usage satellite agenda items for WRC-23 and WRC-27
	Talk 2	3	Ákos Kereszturi	Hungarian participation in the Comet Interceptor mission
	Talk 3	4	Judit Fogasy	Radio interferometric observations of the JUICE spacecraft en route to Jupite
	Talk 4	10	Sara Sanchis Climent	SPECTRE, a self-deploying bi-stable composite tape-spring mechanism for future nanosatellite missions
	Talk 5	32	Laura Bettiol	FOTEC's Testing and Qualification Capabilities for Small Satellites
	Talk 6	43	Zoltán Tóth	Thermal performance characterization of battery insulation on ATL-1 picosatellite mission
	Talk 7	44	András Pál	Fast and flexible developments of digital logics: applications in the first Hungarian astrophysical satellite, GRBAlpha
	Talk 8	30	Máté Galambos	Testing remote clock synchronization with GPSDO-s and a free space laser communication system
18:45	Wrap up of the first day - by László Bacsárdi			

Day 2, April 26 (full online, via Microsoft Teams)

9:00	Welcome of the second day			
9:05	Highlight talk	28	Pál Gábor Vizi	Hungarian participation in the European Space Agency's JUICE (Jupiter Icy Moons Explorer) mission
9:30	Session Science and Technology 2			12 min talk + 3 min Q&A
	Talk 1	57	Árpád Kis	The Space Weather Monitoring and Data Service at HUN-REN Institute of Earth Physics and Space Science (EPSS
	Talk 2	54	Péter Pataki	Reproduction of the Lunar Radar experiment failure and success during implementation
	Talk 3	15	Joel Eldo	Review of Lagrangian Points and Scope of Stationary Satellites
	Talk 4	29	Mohammed Vaseeq	Space Debris: Overview and Mitigation Strategies
	Talk 5	37	Vince Molnár	The Expected Impact of SysML v2 to Cooperation in the Space Sector
	Talk 6	47	Tibor Hegedüs	EON: The first year of the re-started optical tracking of artificial satellites at Baja
	Talk 7	48	Rhea Ranjit Mulki	Study of Microwave Electrothermal Propulsion System
	Talk 8	8	András Illyés	Aether S, a Student-Developed Supersonic Sounding Rocket as a Carrier for Scientific Payloads
	Talk 9	2	Péter Farkas	Assessing Natural and Anthropogenic Ground Deformation Using Sentinel-1 PSI in the Region of Cluj-Napoca, Romania
12:00	Lunch break			
13:15	Opening of the afternoon session			
13:20	Invited talk	Educational and incubation practices in the emerging space - an association perspective		

István Arnócz, Hungarian Astronautical Society

13:40	Session Education and Outreach			12 min talk + 3 min Q&A
	Talk 1	27	Don Koulaouzos	Assessment of Cooperation in the Space Sector
	Talk 2	14	Jasminka Matevska	Engineering and Management of Space Systems (EMSS) - an International Joint Master's Double-Degree Programme
	Talk 3	42	Annamária Komáror	Space Science in the Classroom
	Talk 4	41	Bence Csaba Kováts	The educational and awareness-raising activities of BME Suborbitals
	Talk 5	55	Szilárd Takács	Introduction of space science in higher education: space science in BSc engineering
15:00	Closing of the conference			

Poster presentations

Poster 1	6	Panta Sasikanth	Probing Low Mass Neutrinos in Gravitational Wave Environments: A Novel Approach with Feynman Diagrams & Applications In Space Science
Poster 2	7	András Mihály	Fast Routing in Entanglement-based Satellite Networks
Poster 3	9	Orsolya Meier	Circular food production in space environment – Insect protein production by supplementing green biomass in fee
Poster 4	11	Anna Fehér	Thermal properties of heterogeneous materials using extended heat equation
Poster 5	12	Ákos Kereszturi	Spectral instrument optimization for asteroid missions by space weathering simulation
Poster 6	13	Bence Takács	RTK GNSS monitoring under high ionospheric activity
Poster 7	16	Máté Kreizinger	High-redshift radio quasars from ground and space
Poster 8	17	Kinga Tamási	Investigation of Glass-foam systems as Insulation materials for Space application
Poster 9	18	Gergő Mezőhegyi	MAUVE – UV-Vis Spectroscopy of Stars by a 16U CubeSat
Poster 10	19	Kitti A. Berényi	Comprehensive analysis of the ionospheric response to the largest geomagnetic storms from solar cycle 24 over Europ
Poster 11	20	Hanga Katreiner	Proposal Of A Hybrid CSNN-PSO Algorithm For Improving Space Debris Identification And Classification
Poster 12	21	Pál Gábor Vizi	Transparent Planetary Polished Thin Section Rock Sample Maker for Hungarian Hunveyor Educational Space Probe
Poster 13	22	János Gaskó	Remote sensing of hydrological parameters by GNSS reflectometry
Poster 14	23	Richárd Krisztián Tor	Development of GIS software based spatial ejecta estimation algorithm to support the NASA-ESA Artemis program
Poster 15	24	Péter Püspöki	Distributed Intelligence and Sensor Network in the Power Systems of MRC-100 Satellite
Poster 16	25	Kitti A. Berényi	The Hungarian contribution to the T-FORS Horizon Europe project
Poster 17	26	László Csurgai-Horvá	Application of Rain Sensor Device in Reliable Attenuation Statistics Calculations on Satellite and Terrestrial Radio Connection
Poster 18	31	Máté Szarka	Simulating Solar Particle Events: New advances in Proton irradiation techniques for biological samples at ATOMK
Poster 19	33	Bence Csaba Kováts	Radiation characteristics measurement on a sounding rocket near the Kármán line
Poster 20	34	Bernhard Seifert	CubeSim - A Simulation Framework for small Satellites
Poster 21	36	Vilmos Steinmann	An event-based hydrological model for arid/hyper-arid and Martian environments
Poster 22	38	Kitti Oláh	The role of entanglement in the development of satellite-based quantum interne
Poster 23	39	Ádám Dobay	Preliminary design of payload for sounding rockets
Poster 24	40	Gergely Márk Tölgye	Fuel consumption optimization for suborbital solid fuelled rocket engines
Poster 25	45	Márton Kulcsár	Numerical investigation of the spanwise mean velocity gradient method for transition dela
Poster 26	46	Katherine Cazco	Radiocommunications with the International Space Station (ISS)
Poster 27	49	Anna Pántya	Class-Space: From the classroom to space!
Poster 28	50	Bence Kertész	The perspective of launch capacity and strategic sovereignty of European space activity
Poster 29	51	Tibor Hegedüs	Space Awareness: latest fireball events and the independent allsky7/8 network of Hungary
Poster 30	52	Benedikta Rédling	Data processing from weather satellites
Poster 31	56	Barnabás Zoltán Bar	The first module in space by SZESAT
Poster 32	58	Dóra Borbála Kovács	Daytime Optical Background Radiation