

April 11-13, Budapest, Hungary
<http://ssasyposium.org>

Version April 5, 2018

In the program, the affiliation of the speaker is used.

The detailed affiliation of the authors can be found in the "Book of abstract" (issued for the symposium) and in the "Proceedings of symposium" (issued few weeks after the symposium).

April 11, Wednesday

08:30-10:00	Registration	Registration desk is open 8:30-12:00 in building K (first floor), and 13:15-17:00 in building I (ground floor)				Building K, first floor
10:00-10:30	Opening ceremony		Master of the ceremony: László Baczárdi			Building K, first floor main room
10:30-11:15	Keynote lecture	Kai-Uwe Schroggl	ESA's Education Programme: From inspiration to hands-on experiences	European Space Agency	France	
11:15-12:00	Plenary lecture 1 - Astronaut talk	Reinhold Ewald	ISS - A laboratory in Space	European Space Agency	Germany	
12:00-12:45	Lunch break					K foyler
12:45-13:30	Walk from building K to building I					
13:30-14:45	Session 1		Session chair: Piero Galeone			I.B.028
		Katharina Schüttauf and Alexander Schmidt	The educational programmes with involvement of DLR'S Mobile Rocket Base	German Aerospace Center (DLR)	Germany	
		Armelle Frenea-Schmidt, Bertrand Bocquet, Baptiste Barre and Francois Andrusyszyn	MATRIOCHKA, Adventure and Achievement of a two-stages rocket made by French students from ESTACA	Estaca Space Odyssey	France	
		Paolo Marzioli, Alice Pellegrino, Lorenzo Frezza, Federico Curianò, Federica Angeletti, Andrea Gianfermo, Fabrizio Piergentili and Fabio Santoni	Lessons learned from STRATONAV on BEXUS 22: Educational activities on stratospheric balloon experiment development	Sapienza University of Rome	Italy	
		Gints Dreifogels, Endija Briede and Jānis Šate	Educational Value and Lessons Learned From the Student High Altitude Balloon Programme IRBE	Ventspils University College	Latvia	
		Christoffer Stausland, Alexander Kinnaird, Jøran Grande and Alexander Alexander Biebricher	The Norwegian-ESA Student Program Fly a Rocket! - Pilot Cycle Report	NAROM AS	Norway	
14:45-15:15	Coffee break					I floyler
15:15-15:45	Plenary lecture 2	Levente Dudás	Educational and research opportunities of picosatellites : the Hungarian SMOG-1 and ATL-1	Budapest University of Technology and Economics	Hungary	I.B.028
15:45-17:00	Session 2		Session chair: László Csurgai-Horváth			I.B.028
		Thorben Könemann	Microgravity Research on Earth - The Bremen Drop Tower	ZARM	Germany	
		Gilberto Grassi, Alessia Gloder, Leonardo Pellegrina, Mattia Pezzato, Alvise Rossi, Riccardo Mantellato, Lorenzo Olivieri, Matteo Duzzi, Francesco Sansone, Francesco Branz, Enrico C. Lorenzini and Alessandro Francesconi	STAR: an University Students Drop Tower Experiment	European Space Agency	Netherlands	
		Matteo Duzzi, Mattia Mazzucato, Riccardo Casagrande, Luca Moro, Filippo Trevisi, Fabrizio Vitellino, Matteo Vitturi, Angelo Cenedese, Enrico C. Lorenzini and Alessandro Francesconi	PACMAN experiment: a Parabolic Flight Campaign student experience	University of Padova - CISAS G. Colombo	Italy	
		Simon Mawn	Rocket and Balloon Experiments for Students – Project Milestones	ZARM Drop Tower Operation and Service Company	Germany	
		Manel Caballero, Victor Ubieto and Guillem Castro	Sounding Rockets to Reignite Passion for Space Exploration	Cosmic Research - ESEIAAT UPC	Spain	
17:00-17:05	Wrap of the day					
18:00-21:00	Welcome reception	Welcome reception is included in the registration fee. It will be a buffet style dinner with unlimited drinks (non-alcoholic and alcoholic drinks).				Trófea Grill Restaurant

April 13, Friday

09:00-09:30	Registration	Registration desk is open 9:00-12:00				I floyer
09:30-10:00	Plenary lecture 5	Antonio De Luca	The ESEO Project: history and educational legacy	European Space Agency	Netherlands	I.B.026
10:00-11:00	Session 6/A		Session chair: Antonio De Luca			I.B.026
		Nicola Melega, Alberto Corbelli, Valentino Fabbri, Davide Cinarelli, Alessandro Tambini, Alessandro Avanzi and Roberto Cocomazzi	Assembly Integration and Testing of the ESEO Proto Flight Model	SITAEI	Italy	
		Alberto Lucci, Alfredo Locarini, Dario Modenini and Paolo Tortora	Ground Segment Solutions for the ESA ESEO Educational Mission	University of Bologna	Italy	
		Jenny Kingston, Chiara Palla and Stephen Hobbs	Educational Activities in Development and Testing of the Cranfield De-orbit Mechanism for the ESEO Satellite	Cranfield University	United Kingdom	
		Indrek Sünter, Henri Kuuste, Johan Kütt, Tõnis Eenmäe and Ilmar Ansko	Optical Characterisation of the ESEO Optical Payload	University of Tartu	Estonia	
10:00-11:00	Session 6/B		Session chair: János Lichtenberger			I.B.027
		Belén López Martí and On Behalf Of The Esasky And Cesar Teams	Teaching Astronomy with ESASKY	ESA/ESAC	Spain	
		Lorenzo Olivieri, Matteo Duzzi, Gilberto Grassi, Riccardo Mantellato, Francesco Sansone and Alessandro Francesconi	Conjugating educational activities and technology development: the example of TED project	University of Padova	Italy	
		Lucy Berthoud and Andrew Glester	Space Universities Network - supporting the Space Science and Engineering Higher Education Community in the UK	Cranfield University	United Kingdom	
		Marek Chodnicki, Edmund Wittbrodt and Adam Dąbrowski	"Space&Satellite Technologies" Intercollegiate Master-degree Courses of Study in Tri-city (Poland)	Gdansk University of Technology	Poland	
11:00-11:20	Coffee break					I floyer
11:20-12:40	Session 7/A		Session chair: Antonio De Luca			I.B.026
		Alfredo Locarini, Dario Modenini and Paolo Tortora	GPS-based Navigation Solution for the ESA ESEO Educational Mission	University of Bologna	Italy	
		Márton Borsi, Dániel Skriba, Antal Bánfalvi, László Csurgai-Horváth, József János Szabó and Zsolt Váradi	The ESEO Power Distribution Unit	Budapest University of Technology and Economics	Hungary	
		Christopher Bridges, Peter Bartram, Jonas Holtstiege, Graham Shirvile and David Bowman	Lean Qualification of the AMSAT-UK Software Radio Payload	Surrey Space Centre	United Kingdom	
		Viktor Qiao, Tamás König, Antal Bánfalvi, József Szabó, Árpád Kis and Zsolt Váradi	The Langmuir Probe experiment (ESEO-LMP)	Budapest University of Technology and Economics	Hungary	
		Balázs Zábóri, Attila Hirn, András Gerecs and Tamás Hurtony	ESEO-TRITEL experiment to measure the cosmic radiation	MTA Centre for Energy Research	Hungary	
11:20-12:40	Session 7/B		Session chair: Lorenzo Olivieri			I.B.027
		Nicole Viola, Stéphanie Lizy-Destrez, Nigel Bannister, Richard Ambrosi, Hugo Williams, Benedicte Escudier, Emmanuel Zenou, Giorgio Saccoccia and Eugenio Gargioli	The SEEDS International Post-Graduate Master Program for Space Exploration: Education and Training for Europe's Future in Space	University of Leicester	United Kingdom	
		András Ordasi	Scientific dissemination through an astronomer's eyes	MTA CSFK Konkoly Observatory	Hungary	
		Tym Pakulski and Alex Linossier	Design of a Cost-Effective Robotic Manipulator for an Educational Mars-Analogue Rover	TU Berlin	Germany	
		Luigi Gennaro Izzo and Giovanna Aronne	MULTITROP: an educational project on root tropism interactions	University of Naples	Italy	
		Nigel Bannister	Active Learning in Space Science, Physics, Astronomy and Engineering with NASA's General Mission Analysis Tool	University of Leicester	United Kingdom	
12:40-13:45	Lunch break					I floyer
13:45-14:15	Plenary lecture 6	Titia Skevofilax	Be a star in ESA's Universe	European Space Agency	Netherlands	Building Q, Simonyi room
14:15-15:30	Session 8		Session chair: Kálmán Kovács			
		Renato Amorim, Rohan Chotalal, Katarzyna Ciechowska, Adam Dabrowski, William Ferguson, Thomas van 't Klooster, Verena Kunberger, Darian van Paridon, Sean Pepper, Jakub Porębski, Marius Schwinning, Yuchen Shang, Kelsey Doerksen and Maxime Valençon	Student Perspectives on the 2017 ESA Concurrent Engineering Challenge	Delft University of Technology	Netherlands	
		Robert Garner and Joseph Dudley	Removing Roadblocks from the UK space skills pipeline: A student and young professional perspective	UK Students for the Exploration and Development of Space	United Kingdom	
		Dorottya Milánkovich, István Arnócz and László Baczárdi	A strategy to support new careers in space sector	Space Generation Advisory Council	Austria	

		Loris Franchi, Daniele Calvi and Sabrina Corpino	Concurrent design approach in academic environment: activities and lessons learned	Politenico di Torino	Italy	
		Claudia Lindner, Henryk Hodam, Annette Ortwein, Johannes Schultz, Fabian Selg and Andreas Rienow	Towards a new Horizon for Planetary Observation in Education	Ruhr-University Bochum	Germany	
15:30-16:00	Closing ceremony		<i>Master of the ceremony: Kálmán Kovács</i>			
18:00-21:00	Gala dinner	<i>Gala dinner is included in your registration fee. It will be a 3-hour-long dinner on a ship with an unforgettable cruise on River Danube.</i>				Europa ship

April 14, Saturday

European Student Forum 2018, organized by the Space Generation Advisory Council (separate registration is needed)

Poster presentations (displayed during all three days, dedicated poster session on April 12 afternoon)

Daire Sherwin, Joseph Thompson, Victor Ubada, William O'Connor and David McKeown	Wave-based attitude control of EIRSAT-1, 2U cubesat	University College Dublin	Ireland
Victorio Ubada, Daire Sherwin, Joseph Thompson, David McKeown and William O'Connor	Modelling EIRSAT-1 dynamics & actuation to validate & test a novel attitude control system	Universidad de Castilla - La Mancha	Spain
Timon Schild, Joseph Thompson, Daire Sherwin, William O'Connor and David McKeown	Design of an Attitude Control Testbed for a CubeSat with Flexible Appendages	Trinity College Dublin	Ireland
Joseph Thompson, David Murphy and William O'Connor	Double-dipole antenna deployment system for EIRSAT-1, 2U cubesat	University College Dublin	Ireland
Kira Grunwald, Manfred Ehresmann and Georg Herdrich	PAPELL: Student team lead tenets and challenges in an international project	Small Satellite Student Society University of Stuttgart / KSat e.V.	Germany
Ricardo Gomes, Cass Hussmann and Afzal Suleman	Development of a reliable and low cost miniaturized Reaction Wheel System for CubeSat applications	Universidade de Lisboa - Instituto Superior Técnico	Portugal
Yun-Hang Cho and Viktor Fedun	Sheffield University Solar Balloon Lifted Telescope (SunByte - BEBUS 25)	University of Sheffield	United Kingdom
Alex Sullivan, Sebastian Grau, Ferdinand Fürstenau, Brian Treacy, Tym Pakulski, Tim Gräfe, Jens Großhans, Martin Buscher and Cem Avsar	Verification of 3-axis control for a pico satellite using fluid dynamic actuators	TU Berlin	Germany
Florian Wolz, Marion Engert, Tobias Wahl and Tobias Zaenker	Results of the Rate Control System RaCoS on REXUS 22 and Suggestions for Further Developments	RaCoS, University of Würzburg	Germany
Andreas Bauernfeind	SPROLESS Recovery System	TU Wien Space Team	Austria
Adrian Buzdugan	WOLF REXUS experiment	KTH Royal Institute of Technology	Romania
Cristian Ambrosini, Alessandra Bellina, Loris Bogo, Stefano Di Marco, Filippo Marconi, Vittorio Netti, Denis Soso and Giorgio Tesser	SPRING DRIVEN EXPANDABLE REFLECTOR FOR DEPLOYABLE ANTENNAS	University of Padova	Italy
Patrick Burkhardt, Martin Kossagk, Benjamin Legrady, Philipp Lukas, Sven Schönfeld, Stefan Schreiber, Christian Schunk and Jan Walter	LOTUS-D LIGHT OPTICAL TRANSMISSION-EXPERIMENT OF UNIVERSITY STUDENTS	TU Dresden	Germany
Adam Dabrowski, Karol Pelzner, Jacek Goczkowski, Agnieszka Elwertowska and Szymon Krawczuk	HIGH-QUALITY EXPERIMENT DEDICATED TO MICROGRAVITY EXPLORATION, HEAT FLOW AND OSCILLATION MEASUREMENT FROM GDAŃSK	Gdansk University of Technology	Poland
Ralf Engelhardt, Jonathan Oelhafen, Stefan Ehard, Andreas Kollmannsberger and Klaus Drechsler	Manufacturing, Testing and Flight of a Carbon Fiber Reinforced Plastic Rocket Module with Integrated Fiber Optical Temperature Sensors	Technical University of Munich, Chair of Carbon Composites	Germany
Lena Bötsch and Maximilian von Arnim	ROACH-RX – EXPERIMENT ON ADHESION AND LOCOMOTION TECHNOLOGIES ABOARD REXUS	KSat e.V.	Germany
Ihsan Kaplan, Johann Lange and Fabian Laukotka	COLLECTING MICROMETEORIDS AND OTHER COSMIC-DUST-PARTICLES	Hamburg University of Technology	Germany
Bence Góczán, Márk Németh and Levente Pápay	TESTING FOR HIGH ALTITUDE BALLOON MISSIONS	Simonyi Károly College for Advanced Studies	Hungary
Christian Bach, Jan Sieder-Katzmann and Martin Tajmar	Designing and Testing of a Bi-liquid Rocket Engine with Graduate Students	TU Dresden	Germany
Daniel Maciá, Hugo Carreno-Luengo, Manel Soria, Joan Adrià Ruiz de Azúa, David González and Daniel García-Almiñana	PROOF-OF-CONCEPT OF THE "GNSS Direct & Reflected Combination Tester" (G-DIRECT) PAYLOAD FROM A STRATOSPHERIC SOUNDING BALLOON EXPERIMENT OVER LAND SURFACES	UPC	Spain

Jedzej Gorski and Romuald Redzicki	Freon Decay Experiment on Board of BEXUS-21 Flight	Wroclaw University of Science and Technology	Poland
Tony Hogan, Benedict Taylor, Marina Shcherbakova, Benjamin Olsen, Naomi Dobson, Sophie Clarke and Samuel Croote	Development of a Wildlife Tracking Satellite for International Space Station Deployment	The University of Warwick	United Kingdom
Anastasia Kokori and Angelos Tsiaras	Increasing public participation in exoplanetary research through Citizen Science and user-friendly tools	Aristotle University of Thessaloniki	Greece
Agustin Sanchez-Lavega, Teresa Del Rio-Gaztelurrutia, Santiago Perez-Hoyos, Ricardo Hueso, Jose F. Rojas and M. Asuncion Illarramendi	Astronomy and Planetary Science educational activities using small telescopes at the Aula Espazio Gela of the University of the Basque Country	Universidad Pais Vasco UPV/EHU	Spain
Martin Reiswich and Fabian Baader	VIPER – Student research on extraterrestrial ice penetration technology	FH Aachen UAS	Germany
Clemens Riegler	Project Daedalus, reentry inspired by nature	Daedalus	Austria
Rob Lemmens, Martin Schouwenburg, Bas Retsios and Chris Mannaerts	Using ILWIS Software for teaching Core Operations in Earth Observation	University of Twente, Faculty of Geo-Information Science and Earth	Netherlands
Rob Lemmens, Ellen-Wien Augustijn, Marie-Jose Verkoost and Stanislav Ronzhin	Space Education with The Living Textbook, A web-based tool using a Concept Browser	University of Twente, Faculty of Geo-Information Science and Earth	Netherlands
David Gonzalez, Daniel Garcia-Almiñana, Manel Soria and Miquel Sureda	THE ROLE OF HIGHER EDUCATION INSTITUTIONS IN THE PROMOTION OF SPACE-ORIENTED ACTIVITIES. THE ESEIAAT- BarcelonaTECH EXAMPLE	Universitat Politècnica de Catalunya	Spain
Dániel Szendrei, Andrea Strádi, Nóra Szabadi and István Arnócz	Spacepaprika – a workshop based educational program	MANT	Hungary
Carlla Martins, Eduardo Guimarães and Ingrid Silva	THE IMPROVEMENT OF SCIENCE LEARNING THROUGH ASTRONOMY	Federal University of Amazonas	Brazil
István Sárhegyi, Balázs Rábelyi, Kornél Szabó and Domonkos Surman	Spin-offs of the International Space University's Space Studies Program	New Space Consulting Kft.	Hungary
Nikolaos Sarantinos, Panagiotis Longinos, Panagiotis Charlaftis, Alexios Argyropoulos, Adrianos Filinis and Vassilis Kostopoulos	Behaviour of Polymers in Microgravity	Applied Mechanics Laboratory, University of Patras, Greece	Greece
Virgiliu Pop and Cristina Stancu	Exo-Ro: Involving High-schoolers in Robotics and Astrobiology by Means of a Rover Competition	Romanian Space Agency	Romania
Benoit Sauty, Coentín Bisot, Clement Blaudeau, Lucas Chaumeny, Thomas Starck, Elliott Benisty, Gaspard Beugnot, Olivier Guaitella and Vasco Guerra	About in situ resource utilisation for oxygen production on Mars using non-thermal CO2 plasmas.	Polytechnique - Centre Spatial Etudiant	France
Álvaro Romero Calvo, Lidia Parrilla Benítez, Tim H.J. Hermans, Miguel Ángel Herrada Gutiérrez and Elena De Castro Hernández	Ferrofluid Dynamics in Microgravity Conditions	Área de Mecánica de Fluidos, Departamento de Ingeniería Aeroespacial	Spain
Florine Enengl, Moinak Banerjee, Nandan Dutta Chaudhury, Anton Franzén, Anton Kåbjörn, Alberto Alonso Pinar, Federico Rorro, Chaitanya Prasad Sishtla and Mykola Ivchenko	Plasma measurements with Micro Experiment - PRIME	KTH Royal Institute of Technology	Sweden