

Announcement & Acknowledgement in UNISEC-Global Community

December 17, 2022

New POC for Paraguay

Dr. Jorge Kurita

- Dr. Jorge Kurita attended Universidad Nacional de Asuncion in Paraguay, where he got his BS in Electromechanical Engineering. After graduation, he spent some time in academia working as faculty. During this tenure, he taught courses on heat transfer, fluid mechanics, and physics. In 2004 Dr. Kurita was granted the Fulbright scholarship to attend a graduate program in Mechanical Engineering at Michigan Technological University. He has finished his MS and then continued with a doctorate program. NASA and the NSF funded his doctorate research. Dr. Kurita's contribution to his field was well-published in several papers from high-impact journals. Since 2011 Dr. Kurita worked as a development engineer II in the competitive automotive industry, Filtran LLC, located in Des Plaines, Illinois. As an experimental researcher, his experience helped Filtran develop special testing techniques never implemented before on filtration systems. In addition, Dr. Kurita worked in the CAE group, contributing to developing simulation techniques to help build state-of-the-art filtration systems. Dr. Kurita participated in developing OEM filters; some of them obtained awards from Jatco and GM. From 2016 Dr. Kurita is back to his alma mater as an assistant professor in Universidad Nacional de Asuncion. Later the same year, he is appointed to lead the research department of the School of Engineering. In 2017 he was appointed to be the Mechanical Engineering Department head at Universidad Nacional de Asuncion. In August of the same year, Dr. Kurita is awarded the "Distinguished Citizen by the City Council of Asunción" for his contributions to education in Paraguay's space sector. And in December of the same year, he was mentioned as the "Outstanding Protagonist of 2017" by the newspaper Ultima Hora. Currently, in addition to his activities in academia, Dr. Kurita is working as the General Director of Planning and Management at the Paraguay Space Agency.



New POC for Vietnam

Nguyen Tien Su

- Nguyen Tien Su holds a Bachelor of Engineering degree in Mechatronics and a Master of Engineering degree in Space Engineering. He is currently a researcher at Vietnam National Space Center.
- His research interests include Electrical Power System development and Thermal design, analysis and testing for small satellite. He is a visiting lecturer of several universities, which provide project-based learning subjects related to space engineering.



New POC for Uganda Bonny Omara and Edgar Mujuni



Bonny Omara is one of the three cohort engineers who designed, built, and tested Uganda's first satellite. Bonny works for the Government of the Republic of Uganda under Science, Technology, and Innovation. He obtained a Master of Science in Space Engineering International Course from Kyushu Institute of Technology, a Bachelor Degree in Computer Engineering from Busitema University, a Post Graduate Diploma in Information System Management from the Uganda Management Institute, and an Advanced Certificate in Spatial Information Technology for Urban Planning and Management from Chennai, India.

Bonny's work focuses on the application of remote sensing in addressing the challenges of the citizenry, and he published a paper entitled "Utilization of Uganda's First Satellite in Addressing Its Challenges" that was presented in October 2022 in Istanbul, Turkey, at the 11th Nano Satellite Symposium.

Edgar Mujuni is one of the three Ugandan Engineers that designed, built, tested and launched the country's first ever satellite (PearlAfricaSat-1). He is currently working with Science, Technology and Innovation, Office of the President.

Edgar holds a master's degree in Space Systems Engineering from Kyushu Institute of Technology in Japan, where he graduated in 2022. He also holds a first Class Degree in Telecommunications Engineering from Kyambogo University in Uganda where he developed the best individual project in his final year in 2015. Edgar did a CISCO Certified Network Associate (CCNA) course from Makerere University in Uganda in 2017.

Edgar is a developer of Edu-Sat, an educational satellite that uses Lora Communication system with a 3D printed structure, which he is spearheading towards creating awareness about space science and engineering among Ugandan young engineers. His research interests are satellite Communications systems and ground station Networks for auto operation of satellites.

New POC- Romania

Bianca Szasz

- Dr. Bianca Szasz holds a PhD degree in Space Systems Engineering from Kyushu Institute of Technology (Kyutech) in Japan. Prior degrees, Master of Science and Bachelor Degrees in Aerospace Engineering, were earned from the Polytechnic University of Bucharest, Romania. She has done her Diploma Engineer thesis with Erasmus Program, in Germany, at the Hamburg University of Applied Sciences (HAW Hamburg) and she worked for 8 months as a Guest Scientist at the German Aerospace Center (DLR).
- The main experience in space engineering she gained during the 5 years when she studied and worked in Japan. She was the leader for the thermal subsystem of the Shinen2 university space mission, launched to space in 2014 with Hayabusa 2, she studied about ablative materials for reentry probes and was the leader of several high enthalpy heating tests at JAXA Sagami-hara campus and, later, she worked for Ten-Koh 1 space mission. After leaving Kyushu Institute of Technology, she was employed as a Special Assistant Professor at Nagoya University, being a mentor in the program "Leadership Development Program for Space Exploration and Research", mentoring graduate students in microsatellite design. Currently, back in Europe, she works for European space projects at a space company, Omnidea.



New POC for Bosnia and Herzegovina

Kerim Hadzic

Kerim holds degrees from University SA and Beijing Institute of Technology, fluent in English, Chinese and German. For bachelor studies he studied process engineering, and for masters he studied turbomachinery (turbochargers). He has a specific interest for fluid mechanics and non-linear eigenvalue problems. Co-owner of two companies registered in Bosnia&Herzegovina, Derubis Caravans and Melius Cras.

Currently serving as chief development officer in Derubis Caravans, an automotive company in Europe. Also, Kerim is the president of table tennis club Bosna, Sarajevo. Besides, pursues his interests in space education and space engineering. Because of this interest, he completed CLTP-11 course in August of 2022.



Launch opportunities (ISS deployment)

- J-CUBE
 - Special (discounted) launch opportunities (1U-3U)
 - Need to collaborate with UNISEC-Japan's university
 - Matching application deadline: Dec 28, 2022

<http://unisec.jp/serviceen/j-cube>



Next (29th) Virtual Meeting

- Date: January 21, 2023 10:00 pm - 0:00 am (JST)
- Theme: Space Weather Research Using Nano satellites (TBC)
- Program (TBC)
 - Brief introduction on the importance of space weather research with CubeSat (Kentaro Kitamura Kyutech)
 - Geomagnetic Observation by Yotsuba-KUlover (Dr. Shuji Abe Kyushu Univ.)
 - High-energy Electron Observation by PINO/Birds5 (Prof. Iku Shinohara ISAS/JAXA)
 - Ionospheric TEC observation by KITSUNE (Dr. Necmi Örgen Kytech)
 - Amateur Radio Satellite Communication competition - A global competition with BIRDS-X Project (Prof. Meng Cho Kyutech)
- HOST: UNISEC-Japan Space Weather Research Using Nano Satellites

- Virtual UNISEC-Global Meetings take place on the Third Saturday almost every month in 2023.
- Feb 18, 2022 – Hosted by UNISEC-Colombia
- We are seeking the host local chapter for March, April, May....

UNISEC-Global Social network accounts



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