

Student presentation

UNISEC-Bulgaria

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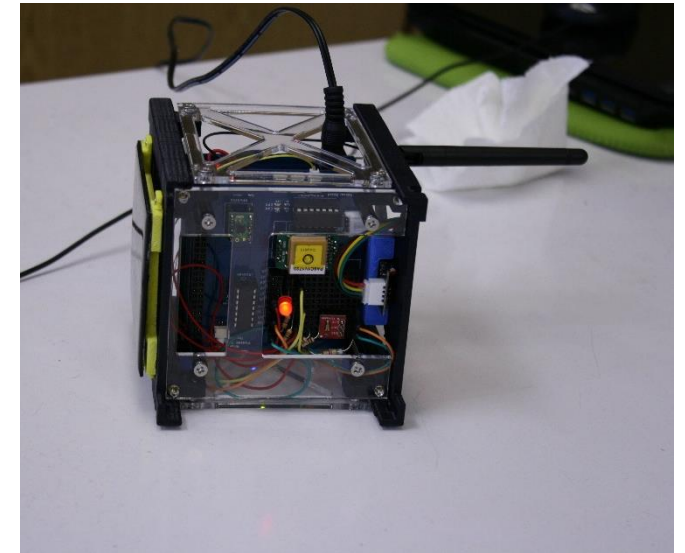
Trainings

In October 2017 the first HEPTA-Sat training in Bulgaria was conducted at Sofia University.



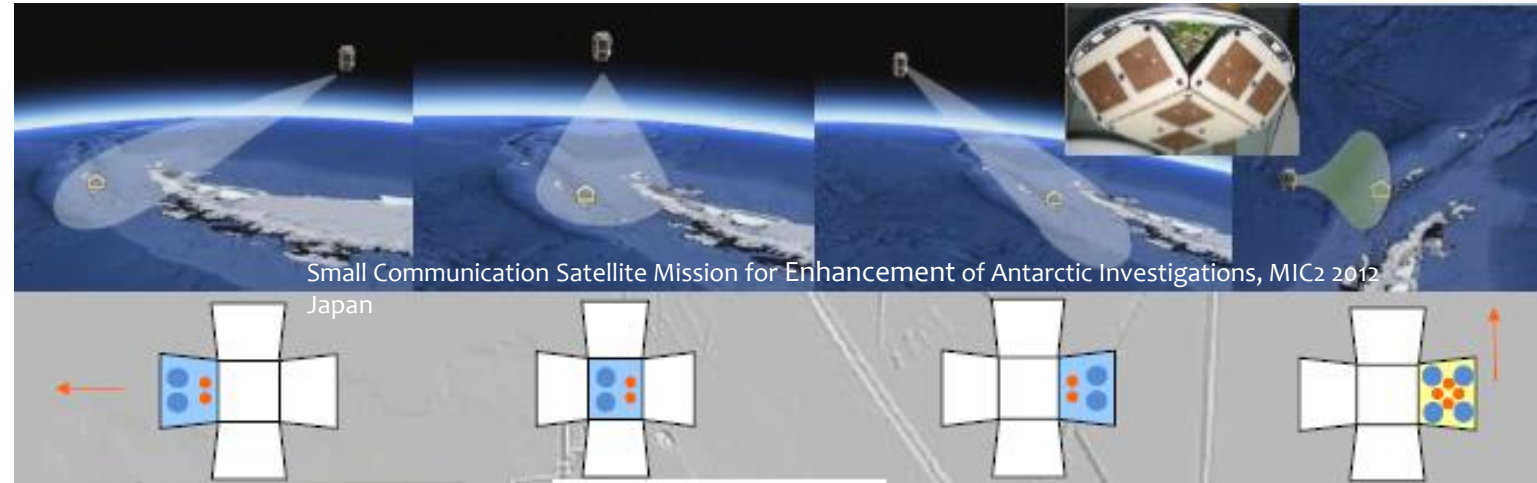
The XIV International Summer Space School “Future Space Technologies and Experiments in Space”, August 2018

Lectures and Events



Communication with Bulgarian Antarctic base

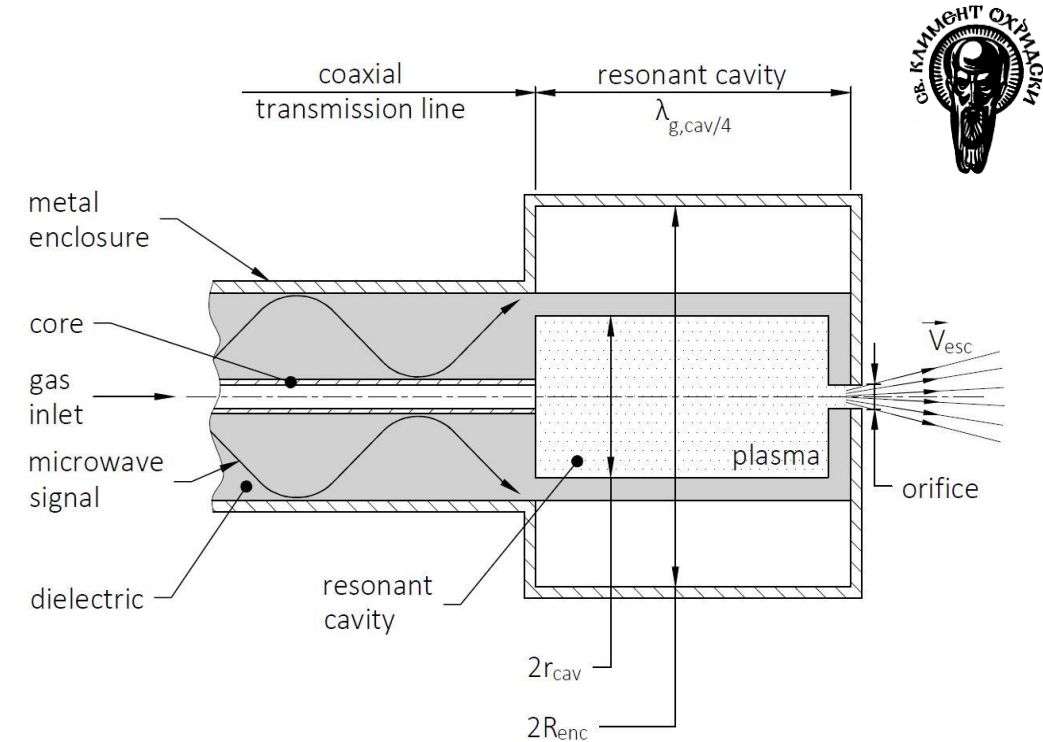
- In 2012 Bulgaria participated in the 2nd Mission Idea Contest with:
“Small Communication Satellite Mission for Enhancement of Antarctic Investigations”
- In January 2019 for the first time student from the Aerospace engineering and communications MSc program at Sofia University will participate in the Bulgarian Antarctic expedition



Electrothermal microwave plasma thruster

Sofia University team is considering the electrothermal microwave plasma thruster, because:

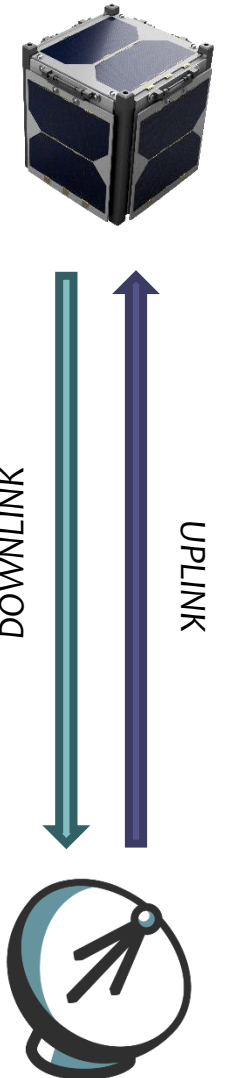
- it can meet the power limitations;
- electrothermal approach doesn't need neutralizer at the thruster exit;
- electrodes are not in contact with the plasma, hence the thruster is expected to have longer operational life;
- the transfer of microwave power into the plasma can be quite effective $\eta \sim 0.9$, utilizing surface wave discharge;
- no need for applied magnetic field (usage of magnets), which would increase the thruster's mass;
- possibility of self-ignition of the discharge;
- operation in both pulsed and continuous wave regime.



Conceptual scheme of electrothermal microwave plasma thruster.

Establishment of a new ground station

- Supported by SAT-1 Initiative
- Milestones
- Planned to be stationed at Sofia Tech Park
- Free access for students from all Universities



Student club for space science activities at National Military University

- Founded in 2015
- Attracts young people to space science
- Educating and nurturing values, academic culture and respect for technology



Space Academy for Children

START YOUR KID ON A PATH TO A COSMIC FUTURE

Children are the future of mankind! Today is the day when we must give them a solid notion of the world and to prepare them to be leaders and creators of our future.



SPACE ACADEMY

THANK YOU!

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