



**European Interparliamentary Space Conference (EISC) Workshop 2017
MAKE SPACE – Make it Happen
Tallinn and Tartu, Estonia**

**Speakers in sessions on May 22nd in Tartu Observatory,
Estonian Space Research Centre in Tõravere**

11:00-12:30 Let's get inspired!



Liisa Oviir- EISC 2017 Chairwoman, welcome to EISC workshop. Member of the 13th Estonian Parliament. Member of the Social Democratic Party. Former Minister of Entrepreneurship and Information Technology of the Republic of Estonia.



Matt Taylor, ESA Mission Scientist

“The opportunity to work on Rosetta was huge and I cannot begin to describe the excitement associated with this mission. It really is just so cool. The Rosetta mission is a breakthrough in space science and exploration and really demonstrates what international collaboration can achieve.”



Priit Salumaa - Co-Founder at Mooncascade, Garage48 Foundation, and MobileMonday Estonia. I'm an entrepreneur, startup activist, and a software engineer- you need all these skills plus much more and strong motivation to take part of space-hackathon! Kick-off!

13:30-14:30 Is the Digital World Real?



Kristjan Vassil , PhD, The head of Center of IT Impact Studies (CITIS) at the University of Tartu. It is the leading academic research and teaching center focusing on the impact and usage of technological applications in the fields of governance and public services in Estonia. Makes use of large scale data that is produced by the ecosystem of Estonian e-governance and investigates what is economic, social and political impact of that.



Mart Noorma PhD , The vice rector for academic affairs of the University of Tartu and initiator of the Estonian Satellite Project ESTCube. “We see space technology as tool for motivation a new generation of entrepreneurs and leaders. We need to learn from each other - politicians, researchers, students, engineers, officers, citizens.

14:30-16:00 Simulation Hackathon „How it is actually working?“

Workgroup 1: Space Hackathon Estonia at S PARK for ESA BIC teams and students ‘



Workgroup leader: Andrus Kurvits, Tartu Science Park / ESA BIC Estonia.
Workgroup content: Space entrepreneurs, startups and teams interested in re-using space technology on earth will be able to work on an existing or a new project with business and marketing development support by experts - and will then present their projects to parliamentarians attending the EISC workshop.

Workgroup 2: Big data applications for services related to positioning



Workgroup leader: Erki Saluveer, Positium

Workgroup content: Big data applications for services related to positioning and location information

Workgroup 3: Conquering the Market Failure in Earth Observation Services



Workgroup leader: Kaupo Voormansik, PhD, Tartu Observatory, cofounder of KappaZeta. PhD in radar remote sensing, first Estonian satellite ESTCube-1 systems engineer.

Workgroup content: Conquering the market failure in Earth Observation services - what should be public and what private? EO services market is just now taking off thanks to the EU Copernicus programme, which offers massive amounts of free and open data. It seems that it is like the GNSS signal, which will now enable a lot of services. But how much of the value chain should be public and how much private? What should be the role of

EU, ESA and national governments? Workgroup participants can research about the topic, debate to defend their positions and propose a viable policy for Europe.

Workgroup 4: Big investment- Tests in Space Technology labs



Workgroup leader: Mari Allik, MSc in Computer Engineering, engineer in Tartu Observatory. Management of Aviation Communication and Navigation Systems: Specialization in Data Communication and Information Processing Equipment, participant in the Estonian satellite ESTCube-1 program.

Workgroup content: Why do we need to invest in space technology that is used for testing satellites on the ground? Let us find out in the space technology laboratories in Tartu Observatory! Moonbounce demo can be done in our groundstation, that is currently also busy with OpenCosmos QB50 satellite mission.

Workgroup 5: Big Picture – space observations via virtual observatories



Workgroup leader: Taavi Tuvikene, PhD, Tartu Observatory, research background in stellar photometry, image processing, digitization of photographic plates, and building astronomical databases.

Workgroup content: Virtual Observatory tools let us observe the whole sky from our desks. In this workgroup we will query data from astronomical databases and will visualise these to understand stars, galaxies and the large-scale structure of the Universe.

Workgroup 6: Education and 21st century skills



Workgroup leader: Mart Noorma, Tartu University

Workgroup content: The term 21st century skills refers to a broad set of knowledge, skills, work habits, and character traits that are critically important to success in today's world. It includes applied skills, cross-curricular skills, cross-disciplinary skills, interdisciplinary skills, transferable skills, transversal skills, noncognitive skills, soft skills. We will discover why we need all these and how the modern learning systems are ready to provide these, what countries need to do for the new regulations or should we just sit and wait until future is here...!

Workgroup 7: Space Strategy for Europe



Workgroup leader: Anu Reinart, PhD, research background in Earth Observations of aquatic environment, EC CoR rapporteur's expert for the analyses of European Space Strategy, member of EC Space Advisory Group, Estonian representative in Copernicus User Forum.

Workgroup content: EC communication COM(2016)705 final is fixing new strategic goals for Europe - its is important for all of us and dealing with global challenges is possible only using highest technological achievements. We will investigate new possibilities to formulate joint comments if needed.

16:30-18:00 How to transfer the knowledge and skills to society?



Moderator: Frank Salzgeber, ESA. Head of the European Space Agency's Technology Transfer Programme Office (TTPO). Prior to joining ESA, held the position of Chief Operating Officer at an IT start-up headquartered in Munich, Germany, spent seven years at Apple Computer, initially as an account manager and then as a sales manager. Being genuinely passionate about the importance of human space flight and the European Space Programme, Frank's believes that 'a society that stops exploring stops progressing'.

Traditionally the Technology Transfer Programme Office focuses on encouraging space-connected entrepreneurship and innovation. Successfully it has brought space technology, systems and expertise down to Earth and into our every-day lives through technology transfers with large non-space companies and almost 500 start-ups, thereby creating thousands of jobs across Europe.

Summary- Presentations by workgroups, conclusions, statement for the EISC 2017.