

Research Centre ‘*Science, Technology, Innovation*’, Faculty of Philosophy and History, University of Plovdiv, Bulgaria

National Astronomical Observatory “Rozhen”, Bulgaria

Department “Knowledge Society: Science, Education, and Innovations”, BAS Institute for the Study of Societies and Knowledge, and  
Laboratory for Social and Anthropological Research (LSAR) & Center for Policy Analysis and Study of Technology - Tomsk State University, Russia

## Summer School “Introduction in Anthropology of Outer Space”

18-24 August 2019,

National Astronomy Observatory “Rozhen”, Bulgaria

### PROGRAMME

The program outlines the schedule of the planned activities at NAO Rozhen Summer School on “Introduction in Anthropology of Outer Space”. The program envisages three forms of mutual work – **lectures** (L), **seminars** (S) and **reading sessions** (R). The difference between the last two: in *the seminars* we discuss given topic based on text(s) suggested by the moderator, but students are free to search and add additional sources; *the reading sessions* are focused on key texts that moderator help students to analyze.

The program is structured into three main sections:

1. “*Fundamentals of Anthropology of Outer Space*” with lectures and seminars led by Dr. Lisa Messeri, Yale University, USA and Dr. Irina Popravko, Tomsk State University (TSU), Russia. It provides general overview of the field, followed by more specific focus on space sciences. The section will introduce also the anthropological perspective on Soviet and Post-Soviet Space programs.
2. “*Exploring Outer Space – the perspectives of Political Anthropology and Sociology of Innovation*” with lectures and seminars led by Dr. Sean Mitchel, Rutgers University and Dr. Ivan Tchalakov, University of Plovdiv, Bulgaria and TSU, Russia. The section will examine importance of bottom-up initiatives in outer space research, namely in building space infrastructure (Brazilian space port) and unleashing new approaches to space exploration (the activity of Citizen's Advisory Council on National Space Policy, New Space entrepreneurship).
3. “*Passion, Endurance and Persistence in Outer Space exploration*” – interventions of outer space practitioners: researchers, New Space entrepreneurs and (amateur) astronomers sharing their experience. Invited speakers in this sessions are Dr. Nikola Petrov (director NAO Rozhen, expert on Sun and Solar System Research), Maxim Zayakov (CEO, Bulgaria Sat - the man behind the first private Bulgarian geostationary satellite launched in 2017 with Falcon 9 of SpaceX); Raycho Raychev and Stanimir Gantchev (entrepreneurs and space visionaries, who established *Endurosat* and *Space4BG*); Velemir Popov and

Emil Ivanov (amateur astronomers from *IRIDA* observatory); Asist. Prof. Iliana Ilieva (*Space Biotechnology Lab*, Space Research and Technologies Institute at Bulgarian Academy of Sciences, SRTI-BAS).

The Program also includes sessions, in which participants prepare and outline their own research projects and at least one round table.

L – lecture; S – seminar; R – reading session; PP – project presentation

Day / time	Morning session				Lunch	Afternoon session			Dinner	Other activities
	9:30 - 11:00	Bra ke	11:30-13:00	13:00-13:30	13:30- 15:00	15:00-16:30	Break	17:00-18:30	19:00	
<b>18.08 Sunday</b>	Arriving at NAO Rozhen					16.00 – Introductory lecture by Dr. Nikola Petrov (director NAO Rozhen) followed by Welcome part				Sky Watching
<b>19.08 Monday</b>	“ <i>Fundamentals of Anthropology of Outer Space</i> ” lectures & seminars - Dr. Lisa Messeri, Yale University, and Dr. Irina Popravko, TSU			Discussion		“ <i>Fundamentals of Anthropology of Outer Space</i> ” lectures & seminars - Dr. Lisa Messeri, Yale University, and Dr. Irina Popravko, TSU				Sky Watching
	Dr. Lisa Messeri (L) <i>Introduction to the Anthropology of Outer Space</i>		Dr. Irina Popravko (L) <i>Contemporary Anthropology and the Challenges of Outer Space</i>			Dr. Lisa Messeri (R) <i>Situated Planetary Knowledges</i>		Dr. Lisa Messeri (R) <i>Place-Making on Earth and in Space</i>		
<b>20.08 Tuesday</b>	Dr. Irina Popravko (L) <i>Anthropological perspective on (Post) Soviet Space Programs</i>		Dr. Lisa Messeri (S) <i>Extraterrestrial Life-worlds</i>	Discussion		Dr. Ivan Tchalakov (L) <i>Exploration &amp; Colonization of Outer Space: Synergies and Tensions</i>		Workshop on individual research projects		
<b>21.08 Wednesday</b>	“ <i>Exploring Outer Space – the perspectives of Political Anthropology and Sociology of Innovation</i> ” lectures and seminars led by Dr. Sean Mitchel, Rutgers University; Dr. Ivan Tchalakov, University of Plovdiv & TSU					“ <i>Exploring Outer Space – the perspectives of Political Anthropology and Sociology of Innovation</i> ” lectures and seminars led by Dr. Sean Mitchel, Rutgers University and Dr. Ivan Tchalakov, University of Plovdiv & TSU				Sky Watching

	Dr. Sean Mitchell (L) <i>Terrestrial Politics and Imaginaries and Outer Space</i>		Dr. Ivan Tchalakov (S) <i>Space Industry and New Space Entrepreneurs: An Anthropological Outlook</i>	Discussion		Dr. Sean Mitchell (S) <i>Geopolitics, Environment, and Space</i>		Dr Irina Popravko & Dr. I.Tchalakov (R) <i>Persistence &amp; Endurance in Outer Space: Towards an Anthropology of Attachment</i>	
<b>22.08 Thursday</b>	Dr. Sean Mitchell (L) <i>Space and Empire</i>		Velemir Popov & Emil Ivanov, <i>Irida Observatory</i>	Discussion		Dr. Sean Mitchell (S) <i>Terrestrial and Extraterrestrial Utopias</i>		Workshop on individual research projects	
<b>23.08 Friday</b>	<i>Passion, Endurance and Persistence in Outer Space exploration</i> – researchers and New Space entrepreneurs present their experience (three one hour sessions followed by discussion)					Ilana Ilieva, SpaceBioLab, SRTI-BAS) <i>Growing Plants in Space: Svet Space Greenhouse Project</i>		Trip Smolyan Planetarium	
	Maxim Zayakov, <i>Bulgaria Sat</i>		Raycho Raychev & Stanimir Gantchev, <i>Endurosat</i>			Round table on “New Space” and Anthropology			
<b>24.08 Saturday</b>	Final Workshop with presentation of the individual research projects			Farwell lunch		Departure from NAO Rozhen			