

**First Summer School on Space Research, Technology and Applications
for young scientists and PhD students 5-11 July 2021 | ROZHEN | BULGARIA**

	Monday 5 July	Tuesday 6 July	Wednesday 7 July	Thursday 8 July	Friday 9 July	Saturday 10 July			
8:00-9:00	BREAKFAST								
9:00-9:30	<p align="center">I. Fundamental Research: <i>Astrophysics and Cosmology</i> . Lecturers: Stoytcho Yazadjiev Daniela Doneva</p>	<p align="center">I. Fundamental Research: <i>Sun and Space Weather</i> . Lecturer: Manuela Temmer</p>	<p>PARALLEL PRACTICAL SESSIONS ON: I. II. III.</p>	<p>Examples of Good practices in Space entrepreneurship: TERRASIGNA (RO)</p>	<p>III. Applications: Earth Observations. Lecturer: Francesco Sarti</p>	<p>III. Space-related methods and applications: <i>Machine learning methods in physics and astronomy.</i> Lecturer: Peter Hristov</p>			
9:30-10:00				<p>II. Aerospace Technologies: <i>Space Communications & 'Essential Equipment'</i> Lecturer: Christopher Bridges</p>			<p>Examples of Good practices in Space entrepreneurship: SINERGISE EOMap</p>		
10:00-10:30									
10:30-11:00 Coffee break									
11:00-12:00								<p>II. Aerospace Technologies: <i>How to build a satellite payload?</i> Lecturer: Christopher Bridges</p>	<p>III. Applications: Earth Observations. Lecturer: <i>EUMETSAT current and future missions - supporting weather analysis and forecast</i> Natasa Mahovic</p>
12:00 - 12:30								<p>Examples of Good practices in Space entrepreneurship: Uni PECS/DateLite (HU) ICEYE (FI)</p>	
12:30-14:00	LUNCH								

14:00-15:00	Guided tour around NAO & break-up groups	PARALLEL PRACTICAL SESSIONS ON: I. II. III.	6 years of Bulgaria participation in ESA cooperating states - results and achievements Lecturer: Petya Piperkova (Ministry of Economy, BG)	PARALLEL PRACTICAL SESSIONS ON: I. II. III.	PARALLEL PRACTICAL SESSIONS ON: I. II. III.	PhD Session: presentations and teamwork results
15:00-16:00			Examples of Good practices in Space entrepreneurship: IBM (BG) EnduroSat (BG)			
16:00-16:30 Coffee break						
16:30-18:00			II. Aerospace Technologies: Scientific instruments and payloads. Lecturer: Oliver Roberts			
18:00-19:00	FREE TIME			FREE TIME		Closing of the summer school
19:00-19:30	DINNER and free time	SOCIAL EVENT organized by the host		DINNER and free time		
20:00-22:00						
after 22:00	NIGHT ASTRONOMICAL OBSERVATIONS (upon announcement)					

IMPORTANT NOTES:

ARRIVAL: SUNDAY 4 JULY, departure from Sofia 13:00; expected time travel is 4 hours; distance Sofia-Rozhen 250 km.

DEPARTURE: SUNDAY 11 JULY, after breakfast around 9:00; expected time travel is 4 hours; distance Rozhen-Sofia 250 km.

Dinner on 4 July and breakfast on 11 July are also included.

Topics of the summer school:

I. FUNDAMENTAL RESEARCH (Astrophysics and Cosmology / Sun and Space Weather)

II. AEROSPACE TECHNOLOGIES (Scientific instruments and payloads)

III. SPACE-RELATED METHODS AND APPLICATIONS (Earth Observations / Machine learning methods in physics and astronomy)