

BIOSPHERE Training course and 1st stakeholder workshop

New methodologies and developments to investigate the influence of extraterrestrial radiation in the biosphere

Date: 1-2 October 2024

Location: Prague (CMI, Hvoždanská 2053/3, Prague 4 – Chodov) and Milešovka, Czech Republic

October 1st, 2024 (Prague)

09:00 – 09:15	Welcome and introduction (I. Ambrožová, UJF CAS; O. Svoboda, UJF CAS; J. Tesař, CMI)
09:15 – 09:30	Overview of the BIOSPHERE project (F. Krasniqi, PTB)
09:30 – 10:15	Modulation of Cosmic Rays in the Earth's Atmosphere (A. Chilingarian, YerPhi)
10:15 – 11:00	Ozone layer and UV-B radiation (R. Van Malderen, IRM)
11:00 – 11:30	Coffee break
11:30 – 12:15	Proton flux variations during Solar Particle Events (V. Pierrard, BIRA-IASB)
12:15 – 13:00	Molecular ionization in the atmosphere: interaction cross sections (A. Dorn, MPG)
13:00 – 14:30	Lunch break
14:30 – 15:15	Effects of combined SCR and UV radiation fields on biological systems (G. Manda, IVB; A. Georgakilas, NTUA)
15:15 – 16:00	Dicentric chromosome breaks (C. Beinke, BIR)
16:00 – 16:30	Coffee break
16:30 – 17:30	Stakeholder committee meeting (closed session, only BIOSPHERE consortium and stakeholders)

October 2nd, 2024 (Milešovka)

08:30 – 10:30	Travel to Milešovka observatory
10:30 – 11:00	Introduction of Milešovka mountain observatory (Milešovka staff, IAP)
11:00 – 11:30	Identifying and quantifying the relationship between cosmic radiation, UV radiation and anthropogenic emission (F. Krasniqi, PTB)
11:30 – 12:00	Coffee break

12:00 – 12:30	Instrumentation for the detection of cosmic radiation (I. Ambrožová, UJF CAS)
12:30 – 13:00	PTB's muon detector (F. Krasniqi, PTB)
13:00 – 14:00	Lunch break
14:00 – 14:30	UJF CAS's neutron detector (M. Sommer, UJF CAS)
14:30 – 15:00	ADVACAM's Timepix3-Telescope (C. Oancea, Advacam)
15:00 – 15:30	SEVAN (A. Chilingarian, YerPhi)
15:30 – 16:00	Closing remarks