



21GRD02 BIOSPHERE

A project under the Metrology Partnership
programme (EMP)





Training course and 1st stakeholder workshop

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

Co-organized by UJF CAS, CMI, and PTB

Date **October 1–2, 2024**

Location **Prague (CMI, Hvožd'anská 2053/3, Prague 4 – Chodov) and
Milešovka meteorological observatory, Czech Republic**



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Agenda

Tuesday, 1st October 2024

CMI conference room, Prague

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

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Wednesday, 2nd October 2024

Milešovka meteorological observatory

Time (in CET)	Session
08:30 – 10:30	Travel to Milešovka observatory
10:30 – 11:00	Introduction of Milešovka meteorological observatory <i>Milešovka staff</i> (IAP)
11:00 – 11:30	Identifying and quantifying the relationship between cosmic radiation, UV radiation and anthropogenic emission <i>F. Krasniqi</i> (PTB)
11:30 – 12:00	Coffee break
12:00 – 12:30	Instrumentation for the detection of cosmic radiation <i>I. Ambrožová</i> (UJF CAS)
12:30 – 13:00	PTB's muon detector <i>F. Krasniqi</i> (PTB)
13:00 – 14:00	Lunch break
14:00 – 14:30	UJF CAS's neutron detector <i>M. Sommer</i> (UJF CAS)
14:30 – 15:00	ADVACAM's Timepix3-Telescope <i>C. Oancea</i> (Advacam)
15:00 – 15:30	SEVAN <i>A. Chilingarian</i> (YerPhi)
15:30 – 16:00	Closing remarks