



CARPATHIAN STAR WAY
HUSKROUA/1901/6.1/0044
www.astrokarpaty.net

Lead Beneficiary



Vihorlat Observatory
in Humenne, Slovakia

Beneficiary 1



Uzhhorod National
University, Ukraine

Beneficiary 2



Institute of Development of
Carpathian Region, Ukraine

Beneficiary 3



Rónaörzö Society
for Nature protection, Hungary

Beneficiary 4



Uzhansky National
Nature Park, Ukraine

Agenda of the Seminar

"Light Pollution and Energy Saving and Safety"

in the framework of the project

HUSKROUA/1901/6.1/0044 "CARPATHIAN STAR WAY"

ENI Cross-border Cooperation Programme
Hungary-Slovakia-Romania-Ukraine 2014-2020

June 30 – July 1, 2023

Place: ethno-wellness hotel "Ungvarskiy"

(Elektrozavodska st, 29, Uzhhorod)

Organizer: NGO «Institute of Development of Carpathian Region» –
a beneficiary of the project «Carpathian Star Way»

Topics: light pollution, its measurement and impact on the environment, energy
saving in communities.

Official languages: Ukrainian, English.

Time: Kyiv = EEST.

**Accommodation and meals of the participants are paid within the framework
of the project**

July 30, 2023 (Friday)

12.00 – 13.00. Registration of the seminar participants

13.00 – 14.00. Lunch break

14.00 – 14.30. Opening of the seminar. Introduction, presentation of a short
report on the activities of the NGO "Institute of Development of Carpathian
Region" in the project "Carpathian Star Way" for the period 2022-2023

Vasyl' Perih, Local Coordinator, member of the NGO "Institute of Development
of Carpathian Region" (Uzhhorod, Ukraine).

14.30 – 14.50. Welcome speeches of project partners

Igor Kudzej – Project Coordinator, Vihorlat Observatory in Humenne (Humenne,
Slovakia)

Yaroslav Shukal` – Acting Director of Uzhansky National Nature Park (Velyky
Berezhny, Ukraine)

PARTNERSHIP WITHOUT BORDERS

Session 1. Light pollution and energy saving

14.50 – 15.10. Report on the topic: "Light pollution and energy saving and safety"

*Speaker: **Iryna Kutsyna**, expert on light pollution, associate professor of the Department of Urban Buildings Construction and Maintenance, Uzhhorod National University (Uzhhorod, Ukraine)*

15.10 – 16.00. Report on the topic: "Effective management of public lighting with power line technology as a tool for reducing light smog in municipalities"

*Speaker: **Heliodor Macko**, CEO SEAK s.r.o. (Prešov, Slovakia)*

16.00 – 16.20. Report on the topic: "Modernization of lighting in the neighborhood of Bükk Dark-sky Park to reduce light pollution"

*Speaker: **Richard Novak**, Rónaörzű Society for Nature Protection (Debrecen, Hungary)*

16.20 – 16.40. Report on the topic: "Energy conservation for public lighting and security issues – the Polish experience"

*Speaker: **Robert Bury**, astronomy expert, director of "ASTRODOM" firm (Krosno, Poland)*

16.40 – 17.00. Report on the topic: "Progress in the project implementation"

*Speaker: **Igor Kudzej**, Project Coordinator, Vihorlat Observatory in Humenne (Humenne, Slovakia)*

Session 2. Light pollution and its impact on observations

17.00 – 17.20. Report on the topic: "Light pollution monitoring in Hortobágy and Bükk Dark-sky Parks – methods and new results"

*Speaker: **István Gyarmathy**, Rónaörzű Society for Nature Protection (Debrecen, Hungary)*

17.20 – 17.40. Report on the topic: "Review of Dark Sky protection organizations"

*Speaker: **Pavel Dubovsky**, Project Promotion Assistant, Vihorlat Observatory in Humenne (Humenne, Slovakia)*

17.40 – 18.00. Report on the topic: "Monitoring of light pollution and its impact on the environment within the Polonyny National Park"

*Speaker: **Daniela Galandova**, deputy director of the Polonyny National Park (Snina, Slovakia)*



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18.00 – 18.20. Discussion, summary of the 1st day of the seminar
18.20 – 19.00. Free time
19.00 – 20.00. Dinner break
20.00 – 23.00. Astronomical observations
23.00. Return to the hotel

July 1, 2023 (Saturday)

09.00 – 10.00. Breakfast break
10.00 – 10.30. Registration of the seminar participants

Session 3. Eco-education, promotion and development of astrotourism

10.30 – 11.00. Report on the topic: "Development of astrotourism in the territorial community of Kolochava village".

*Speaker: **Ivan Barna**, lector, expert on the astrotourism development (Kolochava, Ukraine)*

11.00 – 11.30. Report on the topic: "Impact of light pollution on astrophotography".

*Speaker: **Stanislav Shulha**, astrophotography expert (Uzhhorod, Ukraine)*

11.30 – 12.00. Report on the topic: "Influence of light pollution on the observation of artificial satellites of the Earth, variable stars and asteroids".

*Speaker: **Viktor Kudak**, researcher of the Space Research Laboratory, Uzhhorod National University, (Uzhhorod, Ukraine)*

12.00 – 13.00. Workshop "Technology for measuring and analyzing light pollution data".

13.00 – 13.30. Coffee break.

13.30 – 15.00. Coordination meeting of heads of organizations - partners of the project,

discussion of practical results, completion and closing of the seminar

15.00 – 16.00. Lunch break