

Session Program

Jul 8 - 12, 2025

BPU 12 Congress

Physics Education, History and Philosophy of Physics

Politechnica Univ
Splaiul Independenței 313, București 060042

Wed, July 9

3:00 PM

Physics Education, History and Philosophy of Physics

Session | Location: Politehnica Univ, Splaiul Independenței 313, București 060042

3:00 – 3:30 PM

Analyzing Trends in High School Physics and Mathematics Competitions in Macedonia: A Data Driven Perspective

Speaker

Prof. Lambe Barandovski

3:30 – 3:50 PM

A Simple Experimental Setup for the Demonstration of Fresnel–Arago Laws and the Realization of a Laboratory Exercise

Speaker

Jelena Jovanović

3:50 – 4:10 PM

Writing as an integral part of experimental physics

Speaker

Olga Gkioka

5:00 PM

5:30 PM

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5:30 – 5:50 PM

Role of microcontrollers in teaching physics

Speaker

Branka Radulović

5:50 – 6:10 PM

Using Discrepant Events to Teach the Center of Mass: A Structured Inquiry Approach with the 5E Model

Speaker

Myrto Terpsiadou

6:10 – 6:30 PM

TEACHING MOTION CONCEPTS THROUGH TRACKER - BASED VIDEO ANALYSIS

Speaker

Prof. Silvana Mico

6:30 – 6:45 PM

Do we need new ways of promoting/teaching astrophysics, cosmology and space sciences ?

Speaker

Dumitru Vulcanov

7:30 PM

Thu, July 10

5:30 PM

Physics Education, History and Philosophy of Physics

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5:30 – 5:45 PM **Balkans: Challenges and Perspectives in Secondary School Physics Education**

Speakers

Barbora Bruant Gulejova, Dr Konstantinos Vourlias

5:45 – 6:00 PM

Bridging STEM, Sustainability, and Peacebuilding: Youth@STEM4SF from Swiss high school pilot towards Balkans

Speaker

Barbora Bruant Gulejova

6:00 – 6:15 PM **The Relative Mechanical Motion and Inertiality - Bodies in Outer Space**

Speaker

Dr Sorin Ștefan Radnef

6:15 – 6:30 PM **A relativistic simulator in python**

Speaker

Maria Alexandra Boboaca

6:30 – 6:45 PM

Physics Education in Decline: A Two-Decade Mixed-Methods Investigation of Trends and Factors Influencing Albanian Students' Interest

Speaker

Dr Inva Kociaj

6:45 – 7:00 PM

Neutrons and Photons Elevating Worldwide Science (NEPHEWS) – Trans-National Access For Excellent Curiosity Driven Research

Speaker

Cormac McGuinness

7:00 PM