

BPU–Promoters of Education and Research

November 14, 2024



General Conferences of the Balkan Physical Union

- 11th BPU – Belgrade, Serbia (28 August – 1 September 2022)
- 10th BPU – Sofia, Bulgaria, (August 26-30, 2018)
- 9th BPU – Istanbul, Turkey (August 24-27, 2015)
- 8th BPU – Constanta, Romania (July 5-7, 2012)
- 7th BPU – Alexandroupolis, Greece (September 9-13, 2009)
- 6th BPU – Istanbul, Turkey (August 22-26, 2006)
- 5th BPU – Vrnjacka Banja, Serbia and Montenegro (August 25-29, 2003)
- 4rd BPU – Veliko Trnovo, Bulgaria (August 22-27, 2000)
- 3rd BPU – Cluj-Napoca, Romania (September 2-5, 1997)
- 2nd BPU – Izmir, Turkey (September 12-14, 1994)
- 1st BPU – Thessaloniki, Greece (1991)

The 12 BPU Congress




 **BPU 12** 

The 12th Congress of the Balkan Physical Union
July 8-12, 2025 , Bucharest, Romania

BPU 12 – Scientific Sections

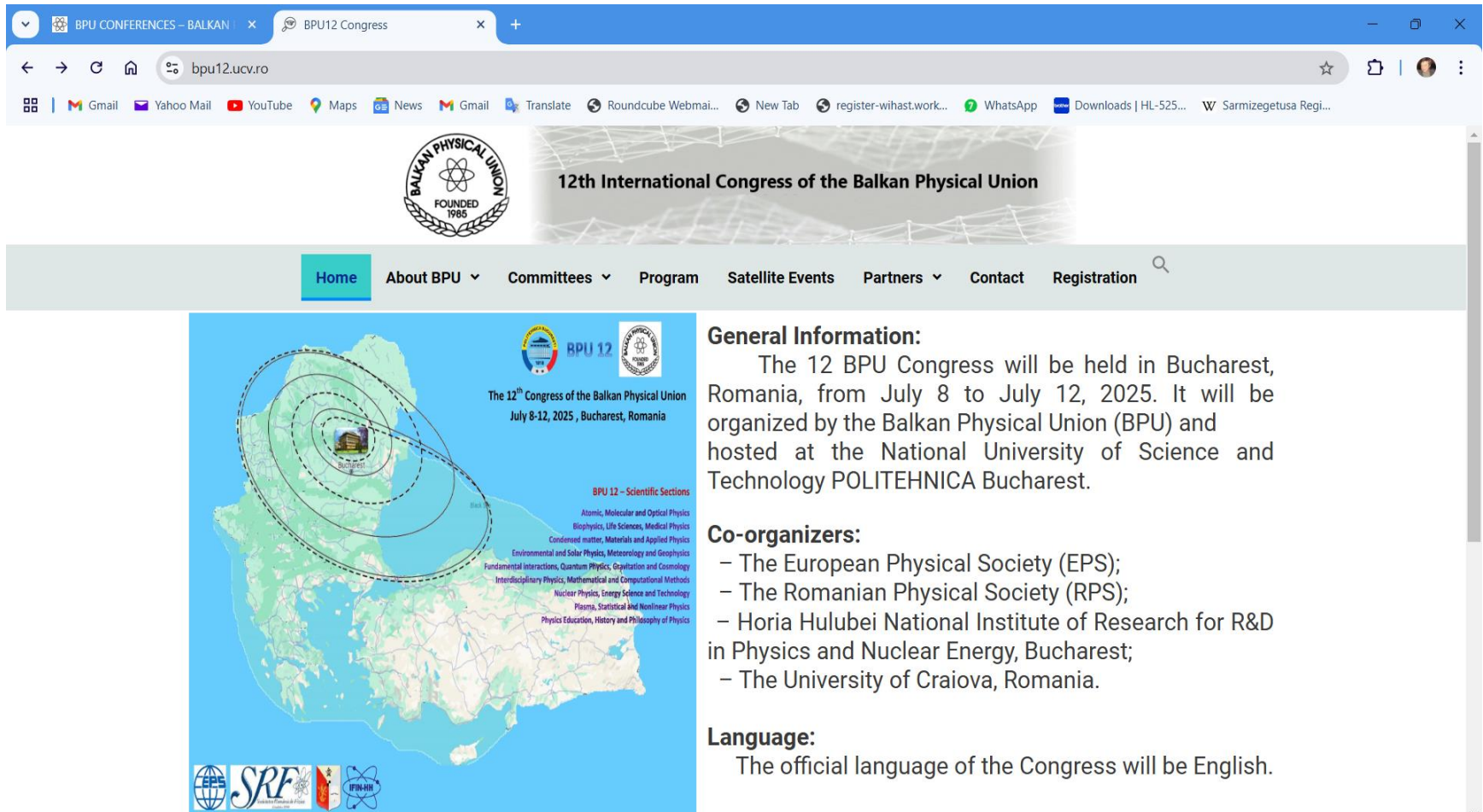
- Atomic, Molecular and Optical Physics
- Biophysics, Life Sciences, Medical Physics
- Condensed matter, Materials and Applied Physics
- Environmental and Solar Physics, Meteorology and Geophysics
- Fundamental interactions, Quantum Physics, Gravitation and Cosmology
- Interdisciplinary Physics, Mathematical and Computational Methods
- Nuclear Physics, Energy Science and Technology
- Plasma, Statistical and Nonlinear Physics
- Physics Education, History and Philosophy of Physics

The web site of the Congress can be accessed through the BPU web site or, directly, at <https://bpu12.ucv.ro/>

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<https://bpu12.ucv.ro/>



The screenshot shows a web browser displaying the website for the 12th International Congress of the Balkan Physical Union. The browser's address bar shows the URL <https://bpu12.ucv.ro/>. The website features a navigation menu with the following items: Home, About BPU, Committees, Program, Satellite Events, Partners, Contact, and Registration. Below the navigation menu, there is a large map of the Balkan region. Overlaid on the map are concentric circles representing the congress location in Bucharest, Romania. To the right of the map, the text reads: "The 12th Congress of the Balkan Physical Union July 8-12, 2025, Bucharest, Romania". Below this, a list of scientific sections is provided: "BPU 12 - Scientific Sections" including Atomic, Molecular and Optical Physics; Biophysics, Life Sciences, Medical Physics; Condensed matter, Materials and Applied Physics; Environmental and Solar Physics, Meteorology and Geophysics; Fundamental Interactions, Quantum Physics, Gravitation and Cosmology; Interdisciplinary Physics, Mathematical and Computational Methods; Nuclear Physics, Energy Science and Technology; Plasma, Statistical and Nonlinear Physics; and Physics Education, History and Philosophy of Physics. At the bottom left of the map area, logos for the European Physical Society (EPS), the Romanian Physical Society (SRF), and the Balkan Physical Union (BPU) are displayed. To the right of the map, the "General Information" section states: "The 12 BPU Congress will be held in Bucharest, Romania, from July 8 to July 12, 2025. It will be organized by the Balkan Physical Union (BPU) and hosted at the National University of Science and Technology POLITEHNICA Bucharest." Below this, the "Co-organizers" section lists: "The European Physical Society (EPS); The Romanian Physical Society (RPS); Horia Hulubei National Institute of Research for R&D in Physics and Nuclear Energy, Bucharest; and The University of Craiova, Romania." Finally, the "Language" section states: "The official language of the Congress will be English."

Main location of the Congress



POLITEHNICA UNIVERSITY OF BUCHAREST

BPU CONFERENCES – BALKAN | BPU12 Congress | universitatea politehnica bucure...

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National University of Science and Technology POLITEHNICA Bucharest



Romeo F · a year ago

Founded: 1818

General Information

Venue: Bucharest , July 8-12, 2025

“Politehnica” University Bucharest

Program: July 8 – Opening
July 9-11 – Sessions of the 10 sections
July 12 – BPU Council and Closing
– Departure



Publications:

With Springer as at BPU 11 (Proceedings 1 + spec. issues)

With IOP: Journal of Physics – Conference series

Congress fee: 200 Euro/ participant covering coffee breaks, welcome dinner and farewell party, publication of one paper in the Proceedings

Grants are available

Scientific Sections

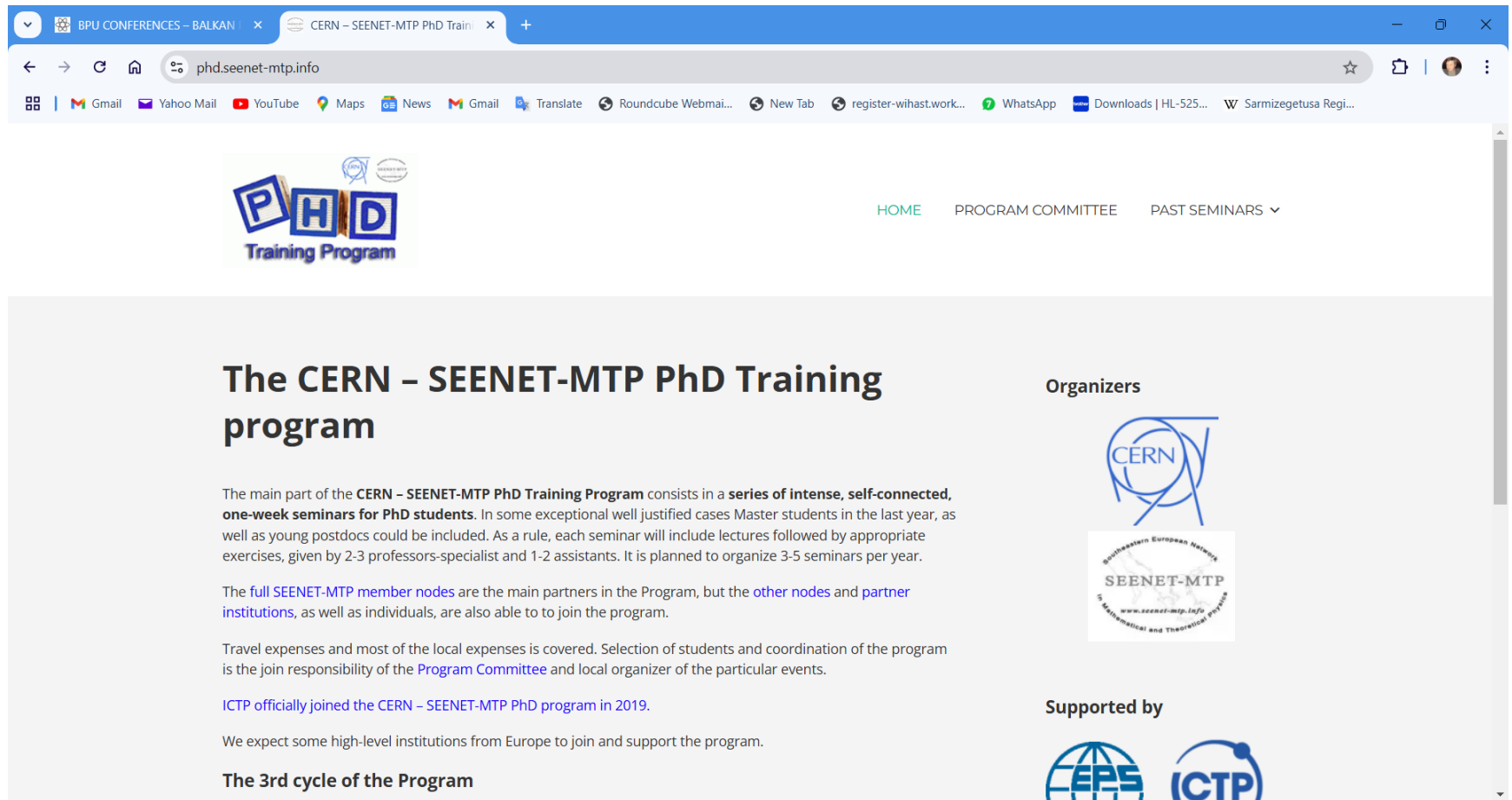
1. Atomic, Molecular and Optical Physics
2. Biophysics, Life Sciences, Medical Physics
3. Condensed matter, Materials and Applied Physics
4. Environmental and Solar Physics, Meteorology and Geophysics
5. Fundamental interactions, Particles and Fields, Quantum Physics, Gravitation and Cosmology
6. Interdisciplinary Physics, Mathematical and Computational Methods
7. Nuclear Physics, Energy Science and Technology, Accelerators and Beams
8. Plasma, Statistical and Nonlinear Physics
9. Physics Education, History and Philosophy of Physics
10. Quantum information and communication

Satellite Events

The following events will be related to the 12th BPU Congress:

- [PHD School “Modern Methods in Quantum Gravity and Cosmology”, July 2-7, NIPNE Magurele](#)
- SEENET-MTP Workshop, July 8-9, UPB
- [School “Frontiers in Quantum Science and Technology” July, 4-8, UPB](#)
- Workshop on Nuclear Energy, July 8-12, UPB
- International Balkan Workshop in Applied Physics, July 9-12, Ovidius University, Constanta

PHD School “Modern Methods in Quantum Gravity and Cosmology”, July 2-7, NIPNE Magurele



PHD Training Program

HOME PROGRAM COMMITTEE PAST SEMINARS

The CERN – SEENET-MTP PhD Training program

The main part of the **CERN – SEENET-MTP PhD Training Program** consists in a **series of intense, self-connected, one-week seminars for PhD students**. In some exceptional well justified cases Master students in the last year, as well as young postdocs could be included. As a rule, each seminar will include lectures followed by appropriate exercises, given by 2-3 professors-specialist and 1-2 assistants. It is planned to organize 3-5 seminars per year.

The [full SEENET-MTP member nodes](#) are the main partners in the Program, but the [other nodes](#) and [partner institutions](#), as well as individuals, are also able to join the program.



Travel expenses and most of the local expenses is covered. Selection of students and coordination of the program is the join responsibility of the [Program Committee](#) and local organizer of the particular events.

[ICTP](#) officially joined the [CERN – SEENET-MTP PhD program](#) in 2019.



We expect some high-level institutions from Europe to join and support the program.

The 3rd cycle of the Program

Organizers



Supported by




School “Frontiers in Quantum Science and Technology” July, 4-8, UPB

BPU CONFERENCES – BALKAN x AntragHeraeusBPUSchool02Aug2024 x

bpu12.ucv.ro/wp-content/uploads/2024/11/Heraeus_Application_02August2024.pdf

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AntragHeraeusBPUSchool02August2024 1 / 5 100%



**Balkan Physical Union – WE Heraeus School on
Frontiers in Quantum Science and Technologies**

July 04 – 08, 2025

Scientific organizers - German side	Scientific organizers - BPU side
Gertrud Zwicknagl TU Braunschweig Braunschweig	Radu Constantinescu University of Craiova Romania

School “Frontiers in Quantum Science and Technology” July, 4-8, UPB

during the entire week.

(* confirmed speakers)

A. Main families of plat forms and materials

Ultra-cold quantum gases	90 min
<i>Tilman Pfau, Universität Stuttgart</i>	
New materials for the Quantum Age	60 min
<i>Petra Rudolf, U Groningen</i>	

B. Theoretical approaches, main concepts and novel methods

Quantum materials	90 min
<i>Jörg Schmalian, KIT Karlsruhe</i>	
Entanglement and quantum teleportation	90 min
<i>Aurelian Isar, U Bucharest</i>	
Quantum Machine Learning	90 min
<i>Florian Marquardt, MPI Erlangen</i>	
Quantum cosmology	60 min
<i>Mairi Sakellariadou</i>	
Quantum communication	60 min
<i>Radu Ionicioiu</i>	

You are very welcome !

