

FIRST ANNOUNCEMENT

XXV Gamow International Astronomical Conference

ASTRONOMY AND BEYOND: ASTROPHYSICS,
COSMOLOGY AND GRAVITATION, ASTROPARTICLE PHYSICS,
RADIO ASTRONOMY, ASTROBIOLOGY AND GENETICS

August 18–22, 2025 — Odesa, Ukraine



Organizers:

Odesa I.I. Mechnikov National University (ONU),
Institute of Radio Astronomy of NAS of Ukraine (IRA NASU),
Ukrainian Astronomical Association (UAA),
Odesa National Maritime University (ONMU),
Odesa Astronomical Society.

Conference Dedication

The 2025 conference is dedicated to the 121st anniversary of the birth of the outstanding scientist George Gamow.

Gamow was a prominent figure in the scientific revolution of the 20th century, and his legacy stands alongside such names as Einstein, Bohr, Rutherford, and Planck. His unique “Gamow style” continues to inspire scientists through both his profound ideas and his playful approach to serious problems.

This year also marks the 25th anniversary of the annual Gamow Conferences held in Odesa — the city of Gamow's birth, education, and early scientific steps. These conferences carry forward the traditions initiated by Gamow at the University of Washington (1935–1942).

The Gamow Medal, awarded by ONU, and the Gamow Prize (established by NAS of Ukraine in 2022) are direct outcomes of this tradition. A square in Odesa is named after Gamow, and a commemorative plaque on the university honors his legacy.

Notable Anniversaries in 2025:

- 160th anniversary of Odesa I.I. Mechnikov National University
- 175th anniversary of Prof. A.K. Kononovich (director of the Odesa Observatory, 1881–1911)
- 145th anniversary of Academician A.Ya. Orlov (director of Odesa Observatory in 1912–1934, Poltava Gravimetric Observatory in 1926-1934, 1938-1951 and MAO NASU in 1944-1948, 1950-1951)
- 100th anniversary of Edwin Hubble's announcement of galaxy classification and the expanding universe
- 110th anniversary of Einstein's General Theory of Relativity
- 100th anniversary of the first planetarium
- 35th anniversary of the Hubble Space Telescope

Scientific Organizing Committee:

Co-Chairs:

- A. I. Zhuk (ONU, Ukraine/CASUS, Germany)
- M. Capaccioli (Naples University, Italy)

Vice-Chair:

- M.I. Ryabov (IRA NASU, Ukraine)

Secretary:

- S.M. Melikiants (ONU, Ukraine)

Members:

- S.M. Andrievsky (ONU, Ukraine)
- I.L. Andronov (ONMU, Ukraine)
- S.V. Chebotar (ONU, Ukraine)
- I. Eglitis (Institute of Astronomy, Latvia)
- K. Georgieva (SRTI, Bulgaria)
- W.Godlowski (Opole Univ, Poland)
- N.I. Koshkin (ONU, Ukraine)
- I. Kudzej (Vihorlat observatory in Humenné, Slovakia)
- E.F.Milone (Rothney Astrophysical Observatory? University of Calgary, Canada)
- B.Ya.Melexh (LNU, Ukraine) ,
- T.V. Mishenina (ONU, Ukraine)
- B.S. Novosiadlyi (LNU, Ukraine)
- E.Paunzen (MUNI, Czechia)
- I. Shmeld (VIRAC, Latvia)
- O.M. Ulyanov (IRA NASU, Ukraine)
- I. Usoskin (Oulu University, Finland)
- I.B. Vavilova (MAO NASU, Ukraine)
- Y.S. Yatskiv (MAO NASU, Ukraine)
- V.V. Zakharenko (IRA NASU, Ukraine)
- S.Zola (UJ, Poland),

Local Organizing Committee:

Chair:

- V.I. Truba (Rector of ONU)

Vice-chair of LOC:

- M.I. Ryabov (IRA NASU)

Members:

V.V. Breus, L.L.Chinarova, N.I. Koshkin, L.S. Kudashkina, S.M. Melikiants, S.L. Strakhova, A.L. Sukharev,

V.O. Yushchenko, D.A. Zabora

Conference Topics:

- Cosmology and Gravitation
- Astroparticle Physics and High Energy Physics
- Astrophysics
- Extragalactic astronomy
- Radio Astronomy
- Solar Activity and Solar-Terrestrial Relations
- Solar System
- Exoplanets
- Astrobiology and Genetics

Conference Sections:

1. Cosmology, Gravitation, Astroparticle Physics, High Energy Physics
(Chair A.I. Zhuk)
2. Astrophysics: Nucleosynthesis, Stellar Atmospheres, Kinematics, Structure and Chemical Evolution of the Galaxy
(Chair T.V. Mishenina)
3. Astrophysics: Interacting Binary Systems and Variable Stars
(Chair I.L. Andronov)
4. Extragalactic Astronomy and Astroinformatics
(Chair I.B. Vavilova)
5. Radio Astronomy
(Chairs O.M. Ulyanov, O.A. Litvinenko);
6. Sun, solar activity, solar-terrestrial relations and astrobiology
(Chairs V.M. Efimenko, M.I. Ryabov);
7. Solar System, Exoplanets and Near-Earth astronomy
(Chair N.I. Koshkin);
8. Biologic section «Gamow's ideas in 21st century biology»
(Chair S.V. Chebotar);
9. Astronomical education, Astronomy Outreach
(Chair I.L. Andronov);
Subsection «Planetariums in Ukraine»
(Chairs G.V. Zheleznyak, M.I. Ryabov).

The Conference Program will be organized in the form of on-line sessions and will include:

- Plenary reports on anniversaries
- Plenary sessions in the form of 30-40 minute reports
- Section meetings with 15-20 minute reports
- The affiliate sections and subsections
- Discussions

Participants who are in Odesa at the time of the conference will have the opportunity to attend in-person sessions at the Astronomical Observatory in Shevchenko Park.

Participant registration will be available through the conference website:

🔗 <https://gamow.odessa.ua/>

The working language of the Gamow International Conference is English.

Important Conference Events

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| • First Announcement: | May 15 |
| • Opening of Registration and
Abstract Submission: | May 30 |
| • Second Announcement: | June 15 |
| • Third Announcement: | July 15 |
| • Final Registration Deadline: | August 1 |
| • Abstract Submission Deadline: | August 1 |
| • Conference Opening: | August 18 |
| • Conference Closing: | August 22 |

Contact Information:

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