

# Third 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.

## 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), N. Ismailov (Shamakhy Astrophysical Observatory, Azerbaijan), K. Georgieva (SRTI, Bulgaria), W. Godlowski (Opole University, 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. Melekh (LNU, Ukraine), T.V. Mishenina (ONU, Ukraine), B.S. Novosyadlyj (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, O. A. Bazyey, L.L. Chinarova, N.I. Koshkin, L.S. Kudashkina, S.M. Melikiants, S.L. Strakhova, A.L. Sukharev, V.O. Yushchenko, D.A. Zabora, O.O. Shymbarova.

## Important Conference Events

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|--|-----------|
| • First Announcement:                              | May 15    |
| • Opening of Registration and Abstract Submission: | May 30    |
| • Second Announcement:                             | July 15   |
| • Third Announcement:                              | August 10 |
| • Final Registration Deadline:                     | August 1  |
| • Abstract Submission Deadline:                    | August 1  |
| • Conference Opening:                              | August 18 |
| • Conference Closing:                              | August 22 |

## 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

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

## Conference Sections:

- 1. Cosmology, gravitation, astroparticle physics, high energy physics**  
(Chair *A.I. Zhuk*); **August 19** (14.00 - 18.00)
- 2. Astrophysics: nucleosynthesis, stellar atmospheres, kinematics, structure and chemical evolution of the Galaxy** (Chair *T.V. Mishenina*);  
**August 20** (14.30 - 17.50)
- 3. Astrophysics: Interacting Binary Systems and Variable Stars**  
(Chair *I.L. Andronov*); **August 21** (09.15 - 13.15)
- 4. Extragalactic astronomy and Astroinformatics**  
(Chair *I.B. Vavilova*); **August 22** (09.30 - 13.00)
- 5. Solar System, Exoplanets and Near-Earth astronomy** (Chair *N.I. Koshkin*);  
**August 21** (10.00 - 18.00)
- 6. Radio Astronomy** (Chairs *O.M. Ulyanov, O.A. Litvinenko*);  
**August 21** (09.30 – 17.30)
- 7. Sun, solar activity, solar-terrestrial relations and astrobiology**  
(Chairs *V.M. Efimenko, M.I. Ryabov*); **August 22** (09.30 - 14.40)
- 8. Biologic section: «Gamow's ideas in 21st century biology»**  
(Chair *S.V. Chebotar*); **August 19** (10.00 - 16.30)
- 9. Astronomical education, Astronomy Outreach and Planetariums in Ukraine:**
  - 9.1 Subsection «Astronomical Education and Astronomy Outreach»**  
(Chair *I.L. Andronov*); **August 21** (14.00 - 17.00)
  - 9.2 Subsection «Popularization of astronomy and Planetariums in Ukraine»** (Chairs *G.V. Zheleznyak, M.I. Ryabov*). **August 22** (16.00 - 18.00)

## SCHEDULE OF THE PLENARY AND SECTION SESSIONS

<b>Data</b> <b>Section</b>	<b>18.08</b>	<b>19.08</b>	<b>20.08</b>	<b>21.08</b>	<b>22.08</b>
<b>Opening of the Conference and Memorial Session</b>	<b>09.30 – 12.30</b>				
<b>Plenary Session</b>	<b>13.00 – 18.10</b>	<b>09.00 – 13.00</b>	<b>09.00 – 13.00</b>		
Section 1. <b>Cosmology, ...</b>		<b>14.00 – 18.00</b>			
Section 2. <b>Astrophysics</b> <b>(Chair T.Mishenina)</b>			<b>14.30 – 17.50</b>		
Section 3 <b>Astrophysics</b> <b>(Chair I.Andronov)</b>				<b>09.15 – 13.15</b>	
Section 4. <b>Extragalactic astronomy and Astroinformatics</b>					<b>09.30 – 13.00</b>
Section 5. <b>Solar System and Space Environment</b>				<b>10.00-18.00</b>	
Section 6. <b>Radio Astronomy</b>				<b>09.30 – 17.30</b>	
Section 7. <b>Sun, Solar activity and Astrobiology</b>					<b>09.30 – 14.40</b>
Section 8. <b>Biologic Section</b>		<b>10.00 – 16.30</b>			
Subsection 9.1 <b>Astronomical Education and Outreach</b>				<b>14.00 – 17.00</b>	
Subsection 9.2 <b>Popularization of Astronomy and Planetariums in Ukraine</b>					<b>16.00-18.00</b>

Program and abstracts will be posted on the web page of the Conference:

[www.gamow.odessa.ua](http://www.gamow.odessa.ua)

### Contact Information:

Astronomical Observatory, Marazliivska, 1v, Odesa, 65014, Ukraine

Email (SOC and LOC): [ryabov-uran@ukr.net](mailto:ryabov-uran@ukr.net)

Secretary: [sedamelikk@gmail.com](mailto:sedamelikk@gmail.com)

Website: <https://gamow.odessa.ua/>