

**XXIV GAMOW INTERNATIONAL ASTRONOMICAL
CONFERENCE:
"ASTRONOMY AND BEYOND: ASTROPHYSICS, COSMOLOGY AND
GRAVITATION, ASTROPARTICLE PHYSICS, RADIO ASTRONOMY,
ASTROBIOLOGY AND GENETICS"**

**AUGUST 19 - 23, 2024
ODESA, UKRAINE**

Second announcement



Organizers: Odesa I.I. Mechnikov National University, Institute of Radio Astronomy of the National Academy of Sciences of Ukraine (IRA NASU), Ukrainian Astronomical Association (UAA), Odesa National Maritime University, Odesa Astronomical Society.

SCIENTIFIC ORGANIZING COMMITTEE:

Chair of SOC: A.I. Zhuk (ONU, Odesa; CASUS, Görlitz, Germany)

Vice-chair: M.I. Ryabov (IRA NASU, Odesa, ryabov-uran@ukr.net)

Secretary: S.M. Melikiants (ONU, Odesa, sedamelikk@gmail.com)

Members of SOC: I.L. Andronov (ONMU, Odesa), M. Capaccioli (Naples University, Italy), S.V. Chebotar (ONU, Odesa), L.L. Jenkovszky (ITP, Kyiv), K. Georgieva (SRTI, Sofia, Bulgaria), N.I. Koshkin (ONU, Odesa), I. Kudzej (Vihorlat observatory in Humenné, Slovakia), T.V. Mishenina (ONU, Odesa), A.S. Miroshnichenko (University of North Carolina, USA), I. Shmeld (VIRAC, Latvia), O.M. Ulyanov (IRA NASU, Kharkiv), I.B. Vavilova (MAO NASU, Kyiv), Y.S. Yatskiv (MAO NASU, Kyiv), V.V. Zakharenko (IRA NASU, Kharkiv).

LOCAL ORGANIZING COMMITTEE

Chair of LOC: V.I. Truba (Rector of ONU)

Vice-chair of LOC: M.I. Ryabov

**Members of LOC: V.O. Borshchenko, 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**

The XXIV Gamow conference is devoted to:

- the 120-th anniversary of George Gamow
- the 460-th anniversary of Galileo Galilei
- the 145-th anniversary of Albert Einstein

Anniversaries of the Odesa Astronomical Observatory:

- the 110-th anniversary of Alexander Schulberg

SCIENTIFIC TOPICS:

Cosmology, gravitation, astroparticle physics, high energy physics, extragalactic astronomy, astrophysics, radio astronomy, solar activity and solar-terrestrial relations, Solar system, exoplanets, astrobiology, genetics.

IMPORTANT CONFERENCE EVENTS

Open registration and abstract	22 April
Second announcement	29 June
Third announcement	1 August
Final registration	1 August (deadline)
Abstract submission	1 August (deadline)
The Conference opening	19 August
The Conference closing	23 August

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**

A “poster session” can be provided for participants in the form of short 5–8-minute oral presentations.

PRELIMINARY PROGRAM

August 19

10.00 – 13.00 Opening of the conference,
Greeting talks and Memorial reports

August 19

14.00 – 18.00 Plenary session

August 20

10.00 – 13.00 Plenary session

14.00 – 17.00 Plenary session

17.00 – 19.00 Meeting of the Ukrainian Astronomical Association

August 21 – 23 Section sessions

SECTIONS:

1. **August 21 (Wednesday)** (10.00 – 13.00, 14.00 – 18.00)
Cosmology, gravitation, astroparticle physics, high energy physics.
(Chair *A.I. Zhuk*)

2. **August 21 (Wednesday)** (10.00 – 13.00, 14.00 – 18.00)
Astrophysics: nucleosynthesis, stellar atmospheres, kinematics, structure and chemical evolution of the Galaxy.
(Chair *T.V. Mishenina*)

3. **August 22 (Thursday)** (10.00 – 13.00, 14.00 – 18.00)
Astrophysics: Interacting Binary Systems and Variable Stars.
(Chair *I.L. Andronov*)

4. **August 22 (Thursday)** (10.00 – 13.00, 14.00 – 18.00)
Extragalactic astronomy and Astroinformatics.
(Chair *I.B. Vavilova*)

5. **August 22 (Thursday)** (10.00 – 13.00, 14.00 – 18.00)
Solar System, Exoplanets and Near-Earth astronomy.
(Chair *N.I. Koshkin*)

6. **August 23 (Friday)** (10.00 – 13.00)

Radio astronomy.

(Chairs *O.M. Ulyanov, O.A. Litvinenko*);

7. **August 23 (Friday)** (14.00 – 18.00)

Sun, solar activity, solar-terrestrial relations and astrobiology.

(Chairs *V.M. Efimenko, M.I. Ryabov*)

8. **August 23 (Friday)** (10.00 – 13.00, 14.00 – 18.00)

Biologic section «Gamow's ideas in 21st century biology»

(Chair *S.V. Chebotar*);

9. **August 21 (Wednesday)** (14.00 – 18.00)

Astronomical education, Astronomy Outreach:

Subsection «Astronomical Education and Astronomy Outreach»

(Chair *I.L. Andronov*);

10. **August 22 (Thursday)** (14.00 – 18.00)

Subsection «Planetariums in Ukraine»

(Chairs *G.V. Zheleznyak, M.I. Ryabov*)

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

www.gamow.odessa.ua

Publications:

Scientific articles based on plenary and section reports are welcome for publication in the journal «Odesa Astronomical Publications» (<http://oap.onu.edu.ua/>). The next issue will be published this year, the deadline for submission is September 30. We also plan to publish reports on radio astronomy in «Radioastronomy and Radiophysics». The reports related to the headings of the "Space Science and Technology" journal of the NAS of Ukraine (<http://space-scitechjournal.org.ua/en>) can be published in issues 4-6, 2024.

For more details regarding the Conference, please contact us:

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E-mails:

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Web-site: www.gamow.odessa.ua