

XXIII Gamow International Astronomical Conference
"ASTRONOMY AND BEYOND: ASTROPHYSICS,
COSMOLOGY AND GRAVITATION, ASTROPARTICLE PHYSICS,
RADIOASTRONOMY, ASTROBIOLOGY AND GENETICS "

21 - 25 AUGUST, 2023
ODESSA, UKRAINE



Organizers: Odessa I.I. Mechnikov National University, Radio-Astronomical Institute of NASU, Ukrainian Astronomical Association (UAA), Odessa National Maritime University, Odessa Astronomical Society.

SCIENTIFIC ORGANIZING COMMITTEE:

Chairs of SOC: A.I. Zhuk (ONU, Odessa; CASUS, Görlitz, Germany)

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

Secretary: S.M. Melikyants (ONU, Odessa, sedamelikk@gmail.com)

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

LOCAL ORGANIZING COMMITTEE

Chair of LOC: V.I. Truba, Rector of ONU

Vice-chairs of LOC: M.I. Ryabov (ryabov-uran@ukr.net),

Secretary: A.A Pilipenko (plpnko@ukr.net) , L.I. Sobitnyak

Members of LOC: V.O. Borshchenko, V.V. Breus, N.I. Koshkin, L.S. Kudashkina, S.M. Melikyants, S.L. Strakhova, A.L. Sukharev, V.O. Yushchenko

The XXIII Gamow conference is devoted to:

- the 155th anniversary of Prof. K.D. Pokrovsky (Director of the Astronomical Observatory of Odessa I.I. Mechnikov State University from 1934 to 1944);
- the 380th anniversary of Isaak Newton;
- the 550th anniversary of Nicolaus Copernicus;
- the memory of Academician V.M. Shulga, the chair of SOC of the Gamow conferences from 2012 to 2022;

SCIENTIFIC TOPICS:

cosmology, gravitation, astroparticle physics, high energy physics, astrophysics, plasma astrophysics, radioastronomy, solar activity and solar-terrestrial relations, Solar System, astrobiology, genetics.

Sections:

1. Cosmology, gravitation, astroparticle physics, high energy physics (Chair – *A.I. Zhuk*);
2. Astrophysics (Chairs – *I.L.Andronov, T.V.Mishenina*);
Subsection “Astroinformatics” (Chair – *I.B.Vavilova*);
3. Radioastronomy (Chairs – *O.M.Ulyanov, O.A.Litvinenko*);
4. Sun, solar activity, solar-terrestrial relations and Astrobiology (Chairs – *V.M.Efimenko, M.I.Ryabov*);
5. Solar System and space environment (Chair – *N.I.Koshkin*);
6. Biologic section “Gamow's ideas in 21st century biology” (Chair – *S.V.Chebotar*);

7. “Astronomical education and Planetariums in Ukraine”

Subsection “Astronomical Education and Astronomy Outreach” (Chair – *I.L.Andronov*),

Subsection “Planetariums in Ukraine” (Co-Chairs – *G.V.Zheleznyak, M.I.Ryabov*)

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

- Plenary reports on anniversaries.**
- Plenary sessions – the 30-40 minutes lectures about the actual problems of astrophysics, cosmology, radioastronomy, astroparticle physics and gravitation.**
- Section meetings with 15-20 minutes reports.**
- The affiliate sections and subsections.**
- Discussions.**

For participants there will be also organized a “poster session” in the form of short oral reports (5-8 minutes).

Conference participants will be provided with zoom links to all sessions in advance.

Conference participants who are in Odessa will be able to take part in an offline session at the astronomical observatory in Shevchenko Park.

Publications (in English!):

The templates of abstracts and manual about how to send them will be available on <http://gamow.odessa.ua/publications>.

Scientific articles based on plenary and section reports are invited to be published as regular papers in the current issue of «Odessa Astronomical Publications» (<http://oap.onu.edu.ua/>), which will be completed this year.

We also plan to publish reports on radioastronomy in «Radioastronomy and Radiophysics» in this year.

Working language of the Gamow International Conference is English.

To the attention of the conference participants from Ukraine! In connection with the possibility of opening the summer season in Odessa and the availability of city beaches, there is the possibility of coming to Odessa and accommodation in various hostels, hotels and recreation centers in Arcadia and Chernomorka. As the situation becomes clearer, the Second Announcement will provide information about the place, cost of living and contact numbers. Booking accommodation each of the participants must decide independently.

For participants of offline meetings at the observatory, the payment of the registration fee for coffee breaks is provided. The amount of the registration fee will be announced in the Second Announcement.

IMPORTANT CONFERENCE EVENTS

First announcement	5 June
Open registration and abstract	20 June
Second announcement	20 June
Final registration	10 August (deadline)
Abstract submission	10 August (deadline)
Third announcement	15 August
The Conference opening	21 August
The Conference closing	25 August
Detailed information on the website: www.gamow.odessa.ua	

REGISTRATION FORM

Personal information:

First Name: _____

Last Name: _____

Title (Prof., Dr., PhD-student, MSc., BSc., Undergraduate student, etc.):

Institution: _____

Department: _____

Country: _____

E-mail address: _____

2. Contribution:

Would you like to present a contribution? (YES/NO): _____

If YES, please, write us the preliminary Title of your talk and Section (required):

Please, fill the form and send it to us before August 10, 2022 to Seda Melikyants:

e-mail: sedamelikk@gmail.com

ABSTRACTS

For the abstract template, see the web page <http://gamow.odessa.ua/publications/>

Please notice that the abstracts should include title, author and co-authors, their affiliations and text (not more than 300 words). Please don't use any figures or tables. Note! All abstracts should be written in English. Participants who have been registered will be sent an invitation with reminder. The texts of abstracts can be directly sent to the personally to **Svetlana Strakhova** (okioao26@gmail.com). The

Scientific Organizing Committee will inform you about the inclusion of the report in the program.

CONTACTS:

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Secretary: sedamelikk@gmail.com

Web-site: www.gamow.odessa.ua