

SECOND ANNOUNCEMENT

6th Gamow International Conference in Odesa: "New Trends in Astrophysics, Cosmology and Radioastronomy after Gamow" and
19th Gamow Summer School: "Astronomy and beyond: Astrophysics, Cosmology, Radioastronomy and Astrobiology"

11 – 18 August, 2019
Odesa, Ukraine

Organizers

Odesa I.I.Mechnikov National University (Astronomical Observatory and Department of Theoretical Physics and Astronomy), Radioastronomical Institute of NASU, Ukrainian Astronomical Association, Euro-Asian Astronomical Society, Russian Gravitational Society, Odesa Astronomical Society, Southern Scientific Centre of NASU.

Scientific organizing committee

Co-chairs of SOC

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V.M.Shulga (IRA NASU, Kharkov, Ukraine, shulga@rian.kharkov.ua)

Vice-chair of SOC

M.I.Ryabov (IRA NASU, Odesa, Ukraine, ryabov-uran@ukr.net)
Secretary: S.M.Melikyants (AO ONU, Odesa, Ukraine, sedamelikk@gmail.com)

Members of SOC (preliminary)

V.M.Adamyant (ONU, Odesa), S.M.Andrievsky (ONU, Odesa), I.L.Andronov (ONMU, Odesa), N.G.Bochkarev (SAI MSU, Moscow), S.Chakrabarti (S.N. Bose National Centre for Basic Sciences, Kolkata, India), P.Chardonnet (Universit de Savoie, Annecy-le-Vieux Cedex, France), M. Capaccioli (Naples University, Italy), A.M.Cherepashchuk (SAI MSU, Moscow), A.D.Chernin (SAI

MSU, Moscow), L.L.Jenkovszky (ITP, Kiev), K.Georgieva (Space Research and Technologies Institute, Sofia, Bulgaria), A.A.Konovalenko (IRA NASU, Kharkov), N.I.Koshkin (ONU, Odesa), A.Kosovichev (Stanford University, USA), I.Kudzej (Vihorlat observatory Humenne, SLOVAKIA) L.Marochnik (University of Maryland, USA), T.V.Mishenina (ONU, Odesa), V.N.Obridko (IZMIRAN, Moscow), S.Silich (INAOE, Puebla, Mexico), A.V.Stepanov (Pulkovo Observatory RAS, Saint-Petersburg), I.B.Vavilova (MAO NANU), Y.S.Yatskiv (President of UAA, Kiev) , V.V.Zakharenko (IRA NASU, Kharkov), V.Zakhozhay (Karazin National University, Kharkov), I.Shmeld (VIRAC, Latvia)

Local organizing committee

Chair of LOC

I.N.Koval (Rector of ONU)

Vice-Chairs of LOC

M.I.Ryabov, V.P.Oleynik

Secretary: A.A Pilipenko

Members of LOC

A.Yu.Burgazli, A.V.Chopovsky, T.I.Kabanova, A.Gorbunov, V.Komendant, N.I.Koshkin, L.S.Kudashkina, S.M Melikyants, B.A.Murnikov, S.L.Strakhova, A.L.Sukharev, V.O.Yuschenko, L.I.Sobitnyk

The Conference and Gamow's School are devoted to:

- the 115th anniversary of George Gamow;
- the 150 year anniversary Mendeleev periodic system of chemical elements.

Scientific topics

Cosmology, gravitation, astroparticle physics, high energy physics, astrophysics, plasma astrophysics, radioastronomy, solar activity, Solar system, and astrobiology.

Sections

1. Cosmology, gravitation, astroparticle physics, high energy physics
2. Astrophysics, Astroinformatics.
3. Radioastronomy.

4. Solar activity and Astrobiology.
5. Solar system and space environments.
6. Attached section "Planetariums of Ukraine",
7. The Importance of G. Gamow's Ideas for Biology of the 21st Century.

New section "The Importance of G. Gamow's Ideas for Biology of the 21st Century".

Within the framework of the annual Gamow's conference, it is planned to organize a biological section - "The Importance of G. Gamow's Ideas for Biology of the 21st Century", where issues of the history of the origin of the theory decoding of the genetic code and modern achievements of genome-wide sequencing, dynamics of interactions 3D models of proteins that had constructed on the basis of nucleotide DNA sequences and much more will be discussed. The section will feature plenary and sectional reports, the materials of which will be published in the journal "ONU HERALD. BIOLOGY".

Chair

Chebotar Sabina Vitalievna

Head of Department Genetics and Molecular Biology Odesa Mechnikov National University, Doctor of sciences in biology, senior researcher, leading researcher, corresponding member of the National Academy of Agricultural Sciences.

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Congress of the Ukrainian Astronomical Association (August 14, head - President of UAA Ya.S. Yatskiv) and Discussion «Space Vision of Ukraine» are an important events of the conference.

General information

These Conference and School are devoted to the 115th anniversary of Georgij (George) Antonovich Gamow, one of the greatest physicists and cosmologists of the 20th century. Gamow made an important and decisive contribution to modern physics, cosmology and biology. His three most significant contributions to these fields are:

- discovery of the quantum nature of alpha-decay in nuclear physics (1928);
- theory of the Hot Universe (1946-1953);
- clue to the genetic code in biology (1954).

George Gamow was born in Odesa. Here, after the completion of a secondary school, he was, for two years, a student at Novorossiisk University of Odesa. Wherever Gamow lived later, he retained his character and his sharp Odesian humor.

During the conference, the participants will be offered sightseeing tours around Odesa, to see and feel its colour and to walk along the Gamow places described in his book "My World Line: an Informal Autobiography".

These Conference and School will be the 6th Gamow Conference in Odesa, after those in 1994, 1999, 2004, 2009, 2015, and the 19th annual Gamow School (starting from 2001). We intend to bring together experts, interested scientists and students in the fields of modern astrophysics, cosmology, high energy physics and biology in order to discuss the most recent developments and problems related to the conference topics, exchange ideas, and review major experimental and theoretical efforts. The program will consist of series of coordinated review lectures supplemented by short reports, poster presentations and discussions of the hottest problems of the observable Universe. The working language is English.

The Conference agenda includes plenary talks (30-40 min), standard contributions (15-20 min), and posters – 1 page of the A1 format (60x84 cm) or up to 8 pages of the A4 format. All presentations have to be in English.

Conference Events

III announcement	15-07-2019
Final registration	30-06-2019
Abstract submission	30-06-2019
Arrival day	11-08-2019
Begin of the conference	12-08-2019
Last working day and conference closing	16-08-2019
Day of departure	18-08-2019

Conference proceedings

There will be created the electronic version of the Abstract Book.

Templates of abstracts can be found at the conference webpage.

The plenary reports of the Conference will be published in the Astronomical and Astrophysical Transactions (AApTr), and section reports in the Odessa Astronomical Publications.

There will be published only the conference proceedings.

Detailed information about the format of the Conference publications will be provided in the 3rd Announcement.

Conference fee

– 200 euro for participants from the Western Europe and USA (100 euro for postgraduate students), 100 euro for accompanying persons (no fees for children).

– 100 euro for participants from Eastern Europe and the Baltic States countries (50 euro for postgraduate students and 20 euro for accompanying persons (no fees for children). Optionally, these fees can be reduced for participants from economically less privileged countries.

– 30 euro for the participants from Russia and Belarus (15\$ for postgraduates and 10\$ for accompanying persons);

– 350 UAH from Ukraine (150 UAH for postgraduates and 100 UAH for accompanying persons).

The conference fee includes the conference materials (the program and the books about Gamow), tea/coffee breaks and the conference events (welcome reception).

The conference fee should be paid upon arrival during the registration.

Conference Venue

The Conference and School will be held:

- in the Sports and Recreation Centre of Odessa National University "Chernomorka" on the bank of the Black Sea (15 km far away from the city center). Participants will have the possibility to live either in the Chernomorka (470 UAH - approximately 16 euro per a day including three meals a day, this price can be corrected a little bit);

- in a comfortable SPA hotel "Grand Marine", for the participants of the conference it's provided 15% discount (<http://www.grand-marine.com.ua>, reception@grand-marine.com.ua, + 38 048 728-80-20);

- in a pension "Sovinyon" (<http://www.sovinyon-resort.com.ua>, zakaz@odecca.ru, +38 048 703-70-58).

Cultural Events

- Excursion on evening Odessa and attractions associated with life of G.A.Gamov in Odessa;
- the world famous Odessa Opera and Ballet Theater and Philharmonic Hall;
- wine tasting at the Institute of Wine and brandy named Tairov and cognac tasting in Odessa Shustov Cognac Winery Museum;
- sea walk.

Contacts

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