

**5-th Gamow International Conference in Odessa:
"Astrophysics and Cosmology after Gamow: progress and
perspectives"
and
15-th Gamow Summer School:
"Astronomy and beyond: Astrophysics, Cosmology,
Cosmomicrophysics, Astroparticle Physics, Radioastronomy
and Astrobiology"**

16-23 August, 2015, Odessa, Ukraine

First announcement



- The Conference and the Gamow's School are devoted to**
- 111 year anniversary of George Gamow**
 - 150 year anniversary of Odessa National University**
 - 50 years of discovery of CMB radiation**
 - 110 years of special relativity and light quanta**
 - 100 years of general relativity**

Organizers: Odessa I.I.Mechnikov National University (Astronomical Observatory and Astronomy and Theoretical Physics Departments), Radio-Astronomical Institute NASU of Ukraine, Ukrainian Astronomical Association, Euro-Asian Astronomical Society, Russian Gravitational Society, Odessa Astronomical Society, South Scientific Centre of NAS of Ukraine.

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Scientific topics:

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

Main Events :

1 Announcement	15 February
Preliminary registration	30 April (deadline)
2 Announcement	15 May
3 Announcement	15 July
Final Registration	15 June (deadline)
Abstract submission	15 June (deadline)
Arrival day	16 August
Conference opening	17 August
Conference closing	22 August
Excursions day	23 August

Preliminary list of plenary speakers:

- 1. I. Antoniadis (Albert Einstein Center - University of Bern and Ecole Polytechnique, Bern, Switzerland)**
- 2. R. Bernabei (University of Rome “Tor Vergata”, Roma, Italy)**
- 3. G.S.Bisnovatyi-Kogan (SRI RAS, Moscow, Russia G.S.)**
- 4. A.D.Chernin (SAI MSU, Moscow)**
- 5. M. Demianski (University of Warsaw, Warsaw, Poland; Williams College, Williamstown, USA)**
- 6. A. Dolgov (Novosibirsk State University, Novosibirsk, Russia; ITEP, Moscow, Russia ; University of Ferrara and INFN, Italy)**
- 7. D. Gorbunov (INR, Moscow, Russia)**
- 8. V. Mukhanov (Ludwig-Maximilians-Universität , Munich, Germany)**
- 9. G. Romero (Instituto Argentino de Radioastronomia, Buenos Aires, Argentina)**
- 10. V. Rubakov (INR, Moscow, Russia)**
- 11. M. Shaposhnikov (EPFL, Lausanne, Switzerland)**

12. **S. Sibiriyakov (CERN, Geneva, Switzerland)**
13. **D. Singleton (California State University, Fresno, USA)**
14. **A. Smirnov (ICTP, Trieste, Italy; Max-Planck Institute for Nuclear physics, Heidelberg, Germany)**
15. **A. Starobinsky (L. D. Landau Institute for Theoretical Physics, Moscow, Russia)**
16. **M. Trodden (University of Pennsylvania, Philadelphia, USA) to be confirmed**

GENERAL INFORMATION:

These Conference and School are devoted to the 110th birthday anniversary of Georgij (George) Antonovich Gamow, one of the great physicists and cosmologists of the 20th century. Gamow has made an important and decisive contribution to modern physics, cosmology and biology. His three most significant contributions to science are:

- **He discovered the quantum nature of alpha-decay in nuclear physics (1928).**
- **He proposed the theory of the Hot Universe (1946-1953).**
- **He found the clue to the genetic code in biology (1954).**

George Gamow was born in Odessa. Here, he leaved the secondary school and was for two years a student of the Novorossiisk University of Odessa. Wherever Gamow lived, he retained his character and his sharp Odessian humor. During the conference, participants will be able to visit the sights of Odessa, 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 5th Gamow Conference in Odessa, after those in 1994, 1999, 2004 and 2009 years, and the 15th annual Gamow School, starting from 2001 year. We intend to bring together experts on the subjects of modern astrophysics, cosmology, high energy physics and biology with a number of interested scientists and students, in order to discuss the most recent developments and problems related to the topics of the activities, exchange of ideas, review major experimental and theoretical efforts. The program will consist of series of coordinated review lectures supplemented by short reports, presentations of posters and discussions of the hottest problems in observable Universe. The working language is English.

Conference fee:

300 euro (420\$) for participants (150 euro (200\$) for postgraduate students), 100 euro (140\$) for accompanying persons (no fees for children).

Optionally, these fees can be reduced for participants from economically less privileged countries. Because of the present situation, the fees for the participants from Russia and Belarus are 30\$ (15\$ for postgraduates) and from Ukraine are 400 UAH (200 UAH for postgraduates).

The conference fee includes the conference materials (the program and the book of abstracts), 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 from the center of the city) or in a comfortable SPA hotel "**Grand Marine**":<http://www.grand-marine.com.ua>, reception@grand-marine.com.ua (phone: + 38 048 728-80-20).**

Or pension "Sovinyon**" : <http://www.sovinyon-resort.com.ua>, < sovinyon-resort@mail.ru (phone: +38 048 719-09-14)**

The prices in both of these hotels are indicated in Ukrainian Hryvnia (UAH). The official exchange rate of Hryvnia can be found in the web-page:

<http://www.bank.gov.ua/control/en/index>

See also: <http://kurs.com.ua/odessa>

PRELIMINARY REGISTRATION FORM (to be send before April 30)

1. Personal information:

First Name: _____

Last Name: _____

Middle Name: _____

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

Institution: _____

Department: _____

Postal address: _____

Postal code: _____

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 :

(In the second announcement, we shall inform you about sections for your choice and we also present a template for abstracts).

For more details regarding the conference and school, please contact us:

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Web-site: www.gamow.odessa.ua (in English)

www.astro-soc.odessa.ua (in Russian)