

International Conference  
**Current Problems of Nuclear Physics and Atomic Energy**  
(NPAE-Kyiv2006)

May 29 - June 03, 2006

Kyiv, Ukraine

**SECOND BULLETIN**

**Purpose.**

The purpose of the Conference is the presentation of scientific reports and exchange of the information about the new ideas and results on actual problems of nuclear physics and atomic energy.

**Place and date.**

The Conference will be held from May 29 till June 03, 2006 in Kyiv in the premise of the Institute of the Post-diploma Education (<http://www.ipe.univ.kiev.ua>) of Kyiv National University named after Taras Shevchenko. Arrival and registration of the Conference participants will be held on May 29, 2006. The departure – on June 3, 2006.

**Scientific program.**

The Conference Program will consist of the invited talks and also scientific presentations, selected from submitted abstracts.

**Basic topics:**

- Collective processes in atomic nuclei
- Nuclear reactions and processes with exotic nuclei
- Rare nuclear processes
- Relativistic nuclear physics
- Neutron physics and physics of nuclear reactors
- Problems of atomic energy and reactors of the future
- Applied nuclear physics and technique of experiments

**List of invited lectures and topics of their reports: \***

S. Aberg (*Lunds Universitet, Lund, Sweden*) - **Chaos in nuclear ground state and excited states**

A .S. Barabash (*ITEP, Moscow, Russia*) - **Double beta decay experiments**

R. Bernabei (*INFN, Roma, Italy*) - **Highlights on DAMA results**

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\* *The list is completed due to confirmed participation, while compiling the second bulletin. The list will be added and published on the Conference web-side.*

- J. Csikai (*IEP& INR, Debrecen, Hungary*) - **Bulk Hydrogen Analysis using Nuclear Techniques**
- N. D. Dang (*RIKEN, Japan*) - **Giant resonances under extreme conditions**
- P. Danielewicz (*Michigan State University, USA*) - **Nuclear Equation of State from Reactions and Structure**
- T. Dössing (*Niels Bohr Institute, Copenhagen, Denmark*) - **Gamma-Decay Cascades emitted by Rotating Nuclei**
- P. Figuera (*LNS-INFN, Catania, Italy*) - **Structure effects on reaction mechanisms in collisions induced by halo and weakly bound nuclei around the barrier**
- M. Freer (*University of Birmingham, England*) - **The influence of the cluster in nuclear reactions**
- A.V. Ignatyuk (*IPPE, Obninsk, Russia*) **to be confirmed**
- K. Kemper (*Florida State University, USA*) - **Heavy ion reactions with polarized and unpolarized beams**
- W. Kutschera (*Institute for Isotope Research and Nuclear Physics, Vienna, Austria*) - **VERA, a universal facility for Accelerator Mass Spectrometry**
- J. Piekarewicz, (*Florida State University, USA*) - **Neutron-rich nuclei in Heaven and Earth**
- P. Ring (*Technischen Universität München, Germany*) - **Covariant Density Functional Theory for Excited States in Nuclei far from Stability**
- S. Shlomo (*Texas A&M University, USA*) - **The Equation of State of Symmetric and Asymmetric Nuclear Matter**
- P. Thirolf (*LMU München, Germany*) - **New Insights into the Multiple-Humped Fission Barrier Landscape of Actinide Nuclei**

## Proceedings.

Scientific reports and posters will be selected from submitted abstracts. Deadline for abstracts is **April 15, 2006**

The abstracts will be issued before the Conference.

Abstracts should be sent as attached files to the official Conference e-mail address [NPAE-Kyiv2006@kinr.kiev.ua](mailto:NPAE-Kyiv2006@kinr.kiev.ua) together with completed participant's registration form. Abstracts are prepared as *MS.doc* file not more than 1 page in length. Instructions for preparation of abstracts and samples of *dot*-file and *pdf*-file, can be found on the Conference website. Please, note in your covering letter (file) what form of the report presentation you prefer – oral, or poster. Authors are also recommended to mention the conference topic, to present their reports.

Conference Proceedings will be published in the separate special issue of the INR scientific journal "Nuclear Physics and Atomic Energy" (<http://www.kinr.kiev.ua/data/digest/digest.html>). Reports and posters (as *.DOC* file) will be collected during the Conference and 1-2 weeks after it. Samples and instructions for preparation of the article can also be found on the Conference website.

The working languages of the Conference are English, Ukrainian and Russian. The organizers will provide the reports and discussions with the simultaneous translation.

### **General information.**

General meeting of the Conference participants is planned for Tuesday evening of May 30. Conference banquet will be organized on Thursday evening on June 1.

During the Conference (at leisure hours) for all participants a number of sightseeing tours to the historical places of Kyiv will be organized.

### **Accommodation and practical information.**

Conference participants can lodge in the hotel complex of the premise where the Conference sessions will be held in the single- and double rooms of European standards for the price of 15 – 20 Euros/night.

The participants can also get accommodation in the 3 stars hotel "MIR" (<http://www.hotelmir.kiev.ua>). Hotel is located in the city, close to the Conference site. The cost of accommodation per person (including breakfast) will be around 35 Euros/night in double room and 60 Euros/night in single room (please note that prices may be subject to currency fluctuations). A number of luxury suites will also be available at 100 -150 Euros/night with assistance of the Organizing Committee.

Please contact the organizers for timely arrangements.

Transportation will be organized from the hotel "MIR" to the Conference site at the IPE. Meals will be served at the IPE.

### **Registration and Conference fee.**

The Registration Form is attached to this bulletin. Please, refer to the Conference website too.

Completed registration form has to be sent to the Conference e-mail address or by fax. Deadline of the registration is **May 10, 2006**.

The registration fee for Conference participants is fixed in amount of 200 Euros and covers the Conference Proceedings, the welcome party, the Conference dinner, all coffee breaks and cultural events. The registration fee for accompanying persons is fixed in amount of 50 Euros and includes all the Conference social program activities and other cultural events. The fee can only be paid on arrival.

For the representatives from Ukraine and other NIS countries the conference fee is fixed in amount of 200 hryvnas for Conference participants and 50 hryvnas for each accompanied person.

The fee can only be paid on arrival.

### **Financial support.**

A limited number of financial supports will be available for young scientists and students. The applicants should provide a short (one page) curriculum vita and a letter of recommendation from a senior scientist who supports their application. Such requests are sent to the Conference e-mail

address till **April 15, 2006**. The Organizing Committee will confirm the selected financial support by e-mail.

### **Travel and visa.**

International airport “Borispol” of Kyiv has good connections with the majority countries in the world. The airport is located in 30 – 45 min. travel by car to downtown and Conference site. Kyiv is well connected by railway transport with some European countries. Practical details will be given in the final bulletin.

Visa formalities to Ukraine are waived for nationals of many countries (without official invitations). If you know that you need visa, and learn about application process, you can visit the site <http://www.mfa.gov.ua/mfa/en/publication/content/1865.htm> or apply to the local Embassy or Consulate of Ukraine.

If necessary, we will provide you with an official invitation letter upon request to [interdep@kinr.kiev.ua](mailto:interdep@kinr.kiev.ua)

### **Important dates and deadlines:**

- Abstracts of contributions: **April 15, 2006.**
- Confirmation of abstracts acceptance and publication of 3th (Final) Bulletin with Scientific Conference Program – the **end of April, 2006.**
- Final registration – **May 10th, 2006.**

### **Correspondence:**

Regarding Conference Scientific Program and Proceedings please, contact

Dr. Volodymyr Ostashko

Institute for Nuclear Research,

Prospect Nauky, 47

Kyiv, 03680

Ukraine

E-mail: [NPAE-Kyiv2006@kinr.kiev.ua](mailto:NPAE-Kyiv2006@kinr.kiev.ua)

For Visa and financial support, please contact

Mrs. L. Lamonova

Institute for Nuclear Research,

E-mail: [interdep@kinr.kiev.ua](mailto:interdep@kinr.kiev.ua)

Fax: +38 044 525 44 63

Additional information about the Conference may be found at the website:

[http://www.kinr.kiev.ua/NPAE\\_Kyiv2006](http://www.kinr.kiev.ua/NPAE_Kyiv2006)

**Registration Form:**Please, send before MAY 10-th, 2006

(Registration forms as dot-file and pdf-file are also available on conference website)

## REGISTRATION FORM

International Conference on **Current Problems of Nuclear Physics and****Atomic Energy (NPAE-Kyiv2006)**

May 29 - June 03, 2006

Kyiv, Ukraine

<b>Name of participant</b>	<b>Family:</b>	
	<b>First Name:</b>	
<b>Title:</b> <i>(Prof., Dr., Mr., Ms.)</i>		
<b>Institution :</b>		
<b>Address:</b> <i>(The address should be complete enough to receive the correspondence)</i>		
<b>City:</b>		
<b>Postal Code:</b>		
<b>Country:</b>		
<b>Phone (office):</b>		
<b>Fax :</b>		
<b>E-mail :</b>		
<b>I am sending abstract :</b> <i>(the title of the abstract, if any)</i>		
<b>Preliminary arrival date:</b>		
<b>Preliminary departure date:</b>		
<b>I would like to live during the conference:</b>	<b>Hotel, located in the premises of the Conference site</b>	
	<b>Hotel " MYR "</b>	
	<b>Another hotels of Kyiv</b>	
<b>Additional requirements to the hotel accommodation:</b>		
<b>Accommodation during the conference will provide by myself</b>		
<b>Accompanied by some persons</b>		

***I will pay registration fee(s) by cash on arrival.***

<b>Name of accompanying persons(s)</b>	
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Please, return this completed Registration Form at your earliest convenience, and in **any case before MAY 10-th, 2006** to conference address by regular mail, fax or by e-mail (preferably, as attach-file) E-mail: [NPAE-Kyiv2006@kinr.kiev.ua](mailto:NPAE-Kyiv2006@kinr.kiev.ua).

(Registration forms as dot-file and pdf-file are also available on conference website)

*Address:*

Conference "NPAE-Kyiv2006",  
Institute for Nuclear Research,  
Prospect Nauky, 47  
Kyiv, 03680  
Ukraine

E-mail: [NPAE-Kyiv2006@kinr.kiev.ua](mailto:NPAE-Kyiv2006@kinr.kiev.ua)

Fax: +38 044 525 44 63