

**MINISTRY OF EDUCATION AND SCIENCE OF THE RUSSIAN FEDERATION**

Federal State Budgetary Educational Institution of  
Higher Professional Education  
“**NATIONAL RESEARCH  
TOMSK POLYTECHNIC UNIVERSITY**”  
**INSTITUTE OF POWER ENGINEERING**

**RUSSIAN FOUNDATION FOR BASIC RESEARCH**

**INTERNATIONAL COUNCIL ON LARGE ELECTRIC SYSTEMS**



**I-st International Youth Forum**

**“SMART GRIDS”**

**On October 21-25, 2013**, the Institute of Power Engineering of Tomsk Polytechnic University holds the **I<sup>st</sup> International Youth Forum “SMART GRIDS”** for high school students, Bachelors, Specialists, Masters, Postgraduate students and young scientists under 35 years old.

Organizing committee invites you to participate in the Forum.

*Forum Purpose and Objectives:*

- To attract Bachelors, Specialists, Masters, Postgraduate students and young scientists, as well as school students to research activity, aimed at solving of topical problems in modern power engineering science;
- To reveal creative and intellectual potential of the Forum participants;
- To broaden a research outlook and develop skills of public speaking.

*Research fields and Forum workshops:*

<b>Smart Grids</b>	<b>Resource Efficient Generation</b>	<b>Active Consumer</b>
<b>1.</b> Simulation of electric systems <b>2.</b> Relay protection and automation of electric systems <b>3.</b> High-Voltage Energy Sector	<b>4.</b> Thermal and Nuclear Power Plants <b>5.</b> Power Engineering Industry and Fuels <b>6.</b> Thermal Physics and Combustion Engineering	<b>7.</b> Alternative and renewable Energy Industry <b>8.</b> Automation of technological processes <b>9.</b> Electromechanical complexes for Smart Grids <b>10.</b> Materials for Smart Generation

Within Forum framework the works will be selected for a contest of innovative projects under the Program “Participant of Youth Research and Innovative Contest” - U.M.N.I.K., under the Foundation for Assistance to Small Innovative Enterprises (FASIE) program in the field of research and technology, nominated “For research results of significant novelty and mid-term perspective of their effective commercialization within 3-5 years”.

During the Forum there will also be held:

- School-workshop “Technical translation problems” with a master class for young scientists;
- Essay contest for students of high school in any of the stated Forum topics.

### *Conditions for participation*

To participate in the **I<sup>st</sup> International Youth Forum “SMART GRIDS”** you are required to provide the following to the Organizing Committee: **Application** (Annex 1), **articles** (format requirements are given in Annex 2) or **Essay** (format requirements are given in Annex 3). Text of paper or essay and application form are made as a file with extension doc. or docx., name of the file is formed of the first author’s family name and workshop number, application - of the author’s family name, workshop number and a mark in the file name \_application\_ (example: Petrova 5- for conference paper, Petrova 5 application – for an application form) within period from **06 June** till **30 September 2013** .

Papers and application are to be sent via electronic mail at [ForumEnergy@enin.tpu.ru](mailto:ForumEnergy@enin.tpu.ru).

Name of the workshop should be stated in the subject field (e.g., power engineering industry and fuels).

The Forum materials will be published as an electronic collection of works and its printed version will be mailed to the participating universities, companies and organizations not later than 1 month after the Forum completion. An electronic version of works collection will be available at the site of event.

**Official languages:** Russian and English.

**Participation:** in person and virtual.

**Registration fee:** none.

**Accommodation:** participants from other cities for themselves.

### **Following the Forum results:**

- *two best works* of every workshop will be *published* in the electronic scientific journal of the National Research Tomsk Polytechnic University “*Vestnik nauki Sibiri*”;

- *five best works* will be *recommended for publication* in the journal “*Izvestiya TPU*”, (included in the *List of Higher Attestation Commission of Russia (VAK RF)*);

- *best essays* of high school students will be *published on the website* of Institute of Power Engineering of the National Research Tomsk Polytechnic University and in the *collection of forum works*.

**Detail information is available on the site:** <http://portal.tpu.ru/science/konf/forum-enin>

### *Contact information*

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**APPLICATION  
To participate in the I International Youth Forum  
“Smart Grids”**

1	Full name of a speaker	
2	Year of Birth	
3	Category (high school student, Bachelor, Specialist, Master, Postgraduate student, Young scientist under 35 years old)	
4	Name of educational institution, organization (in full)*	
5	<p><b><u>For students:</u></b> Institute (Faculty), Department, Year and Group</p> <p><b><u>For postgraduate students:</u></b> Institute (Faculty), Department, Year of study, Field (Code)</p> <p><b><u>For young scientists:</u></b> Institute (Faculty), Department, Title</p> <p><b><u>For high school students:</u></b> Class</p>	
6	E-mail, Phone # of a speaker	
7	Names of co-authors (not more than 2)	
8	No. and name of the workshop, where work will be presented	
9	Topic of presented work	
10	Form of participation: in person/ virtual	
11	Information about research adviser: Name (in full), Educational institution; Institute (Faculty); Department; Title; Academic degree; E-mail	
12	Mail address (Postal Code)	

## **Requirements to articles**

### **NAME OF ARTICLE**

*(CapsLock, 14 pt, bold, center alignment)*

paragraph, 14 pt

N.S. Family name, N.S. Family name

Full name of Organization (University, Research Institute, Department, Group)

*(14 pt, center alignment)*

paragraph, 14 pt

Paper volume not more than 4 pages.

You should use MS Word 2003 and later versions.

One author can present not more than two papers in different fields.

### **Requirements to text layout:**

- Fields: upper, lower, right, left – 30 mm;
- Portrait orientation;
- Font - Times New Roman, 14 pt;
- Interline space – single spacing;
- Alignment – ;
- First line indent – 1.25 cm (default);
- Automatic hyphenation;
- Manual hyphenation, extra spaces and indents are impermissible.

### **Requirements to drawings and diagrams:**

- All drawings and diagrams should be black-and-white;
- Text size on drawings is not smaller 12 pt;
- Grouping of Word drawings is mandatory;
- Center alignment of drawings and diagrams;
- Drawing captions and names are required to be grouped with the drawings, Times New Roman font, 14 pt, no indents, alignment – justify.

All drawings are given in the format of portrait orientation.

### **Requirements to tables:**

Name and number of a table (e.g., Table 1) should be placed above, right alignment.

### **Requirements to formulae:**

Formulae should be typed in Microsoft Equation , MathType with the following settings:

- Normal font-size 14 pt;
- Large index 12 pt;
- Small index 10 pt;
- Large symbol 18 pt;
- Small symbol 12 pt.

Formulae should be centered, and their numbers on the right and given in parentheses.

$$D = \frac{1}{N} \cdot \sum_{i=0}^N G^2 \cdot \sqrt{a_i} \quad (1)$$

### **Requirements to references:**

Numbers of references are given in the text and enclosed in brackets. A list of references is given in the end of the article. Pay attention to a total ordering of book data in bibliographic entry. A list of references is

given below, where [1] – a book by one or two authors; [2] – a book by three authors; [3] – a book by four and more authors; [4] – a collection; [5] – a journal article; [6] – an article from collection. The word REFERENCES is at the top of the list (CapsLock, 14 pt, left alignment, indent 1.25 cm).

#### REFERENCES:

1. Shamkhalov F.I., Kotilko V.V. Entrepreneurship in Russia: Regional Industry Aspect. - M.: Ekonomika, 1997.- 351 p.
2. Kalugin N.M. et al. Bank commercial security: Textbook for course "Protection of commercial information." For Economics students / N.M. Kalugin, A.V. Kudryavtsev, N.A. Savinskaya.- SPb.: SPb GIEA, 1996.- 99 p.
3. History of Russia. Basic Course // A.S. Орлов, V.A. Georgiyev, A.Yu. Polunov, Yu.Ya. Tereschenko.- M.: Prostor, 1997.- 650 p.
4. Russian writers in Tomsk: Collection of articles. - Tomsk: Vodolei, 1996.- 180 p.: ill.
5. Tomchin G. Myths and reality of Russian privatisation // Chelovek i Trud.- 1997.- N 9.- P. 69-71.
6. Mezhujev V.M. Philosophy – a means for people to be themselves // Filosofskoye soznaniye: dramatism obnovleniya.- M.: Politizdat, 1991.- P. 160-168.

Brief information about a research adviser is given with one paragraph spacing after references.

Research Adviser: N.S. Family name, academic degree, title, and place of employment.

***Articles which do not meet the requirements will NOT be published.***