

APPROVED

by the decision of  
conference organizing committee  
on 19.05.14 (Report №1)

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# Regulations

Of International scientific and technical conference

“Electric Power Engineering in youth’s eyes”

Moscow

2014

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#### **1. Terms and definitions**

Conference EPIY, conference – International scientific and technical conference “Electric power engineering in youth’s eyes”

Technical institutes of higher education, institutes of higher education –Institutes of higher professional education (Higher education institutes) performing the preparation of personnel on technical specialties, profiles and directions

Information report concerning conference holding – written document that officially declares the beginning of the conference and its conditions published in Official information source of the conference (standard information report is given in Appendix 1)

Conference organizers – organizers of the conference are:

- 
- Institute of higher education where the conference is held
- CF “Trustworthy generation”
- JSC “SO UPS”
- NP “RNC CIGRE”

Official Information source – Web sites of conference organizers

## **2. General provisions**

### **2.1. The Purposes and the form of holding the conference**

2.1.1. Conference is held with a purpose of:

- Development of scientific and creative potential of young researchers in the field of electric power industry;
- Activation of exchange process of new ideas and research;
- Stimulation of creative thinking among the youth;
- Forming of a personnel reserve for Russian companies of electric power industry.

2.1.2. Conference is held on a traditional annual basis, on the premises of one of the leading Russian technical institutes of higher education with the departments training on electric power and electric and technical profiles (specialties, directions) on the basis of the cooperation agreements concluded between NP «RNC CIGRE» and the Russian technical institutes of higher education, and according to the event schedule under the program «RNC CIGRE Youth section».

2.1.3. Students of the Russian technical institutions for higher education (bachelor degree / specialists / MA course / postgraduate study), as well as young specialists under 35 years can participate in the conference. Derogation from the stated provisions is allowed for co-authors if at least one of them corresponds to these provisions.

2.1.4. Conference official languages are stated in the information report concerning the conference.

2.1.5. Conference has its own symbol. The conference symbol can be found in Appendix 2.

### **2.2. Organization of conference**

2.2.1. The conference venue, its terms, subjects, composition of organizing and program committees of conference, conditions of participation, report requirements and all other questions concerning the conference are stated in the information report of the conference. The first conference information report is published on the official information source of conference in time not later than 6 months prior to the beginning of conference.

2.2.2. Conference can have sponsors and information partners. The following organizations are eligible to act as sponsors of conference: organizations of Russian electric power industry, scientific research organizations. Sponsors can have the following status:

- The general sponsor;
- The official sponsor;
- The sponsor.

Publishing houses of periodicals in the field of electric power industry can also act as information partners of the conference. The decision concerning the sponsor and information partners' status requirements is made by the organizing committee.

2.2.3. Winners on conference subjects are awarded by awards and diplomas according to the organizing committee decision.

2.2.4. Reports of participants of conference are printed in the collection of reports published on an official information source of conference.

2.2.5. Any interested person has the right to address the organizing committee for explanations of the present Regulations. General explanations together with the text of present Regulations are published in an official information source of conference.

### **2.3. Main persons participating in the organization and holding the conference**

2.3.1. In preparation and holding the conference take part the following:

- a) Organizers of conference, sponsors and partners;
- b) Conference organizing committee;
- c) Program committee of conference.
- d) Participants of conference.

2.3.2. **Organizers of conference** - the organizations interested in holding the conference for the achievement of its purposes.

2.3.3. **Organizing committee conferences (organizing committee)** - the public structure created for realization of coordination of actions and events, connected with carrying out the International scientific and technical conference «Electric power engineering in youth's eyes», which carries out the following functions within the limits of preparation and holding the conference:

Development and actualization of information materials (information report, application form for the conference participation, registration form, report design requirements etc.), forming the mailing list and mailing of information materials;

- a) Organization of acceptance of conference participation applications;
- b) Placing the information on conference in an official information source of conference;
- c) Interaction with program committee of conference on questions of reviewing of reports of participants of conference;
- d) Consideration of application forms for participation in conference, decision-making on the admission to participation in conference;
- e) Interaction with administration (dean's office), departments of institutes for higher education, where the conference is held, on questions concerning the preparation, organization and conference holding;
- f) Design and preparation of premises for carrying out of sessions of conference;
- g) Provision of:
  - Edition of the Conference collected papers and its mailing to correspondence conference participants and organizations in the list according to FL "About the obligatory copy of documents"

from 12/29/1994 № 77-FL (in edition from 2/11/2002 № 19-FL);

- Production of materials for design and support of the conference;
- Technical support of carrying out of sessions of conference (installation and adjustment of the presentation equipment, technical support of presentations, provision of photo and video shootings during conference together with Internet translation of sessions if necessary);
- Support of participants of conference (registration of participants, distribution of a distributing material, directory servicing of participants, etc.);
- Transport service for the participants of the conference;

h) Determination and rewarding of winners.

2.3.4. **Program committee of conference** - the public structure which is created for the forming of the conference program and carrying out the following functions at preparation and holding of the conference:

a) Determination of scientific directions of the conference;

b) Preliminary reviewing of reports of conference participants submitted together with the application form for participation in conference and issuing the remarks (offers, recommendations) concerning reports;

c) Forming of the conference program (grouping of plenary reports according to scientific subjects, their distribution on days of carrying out of plenary sessions and the coordination with authors; grouping of reports that have passed the reviewing and editing, their distribution on sections and on days of carrying out of section sessions; appointment of presidiums of plenary and section sessions);

d) Preliminary assessment of the reports presented by means of the full-time participation at the conference.

2.3.5. A conference participant (participant) - a physical person (group of persons), conforming to requirements stated on 2.1.3 of the Regulations, who has submitted an application for the conference participation following the specified procedure and in time.

## **2.4. Stages of holding the conference**

2.4.1. Conference is held at following stages:

a) Forming of organizational and program committees of conference, forming and mailing (publication) of the information report concerning the preparation and conference work;

b) Acceptance of applications for participation in conference;

c) Reviewing of reports of conference participants and decision-making on the admission to participation in conference;

d) Conference opening, reports listening;

e) Determination and rewarding of conference winners;

f) Conference closing, the organization of mailing of the collection of reports of conference participants.

2.4.2. The Description of stages is given in section 3 of the present Regulations.

### **3. Procedure of conference holding**

#### **3.1. Forming of organizing and program committees of conference**

3.1.1. Not later than April, 1<sup>st</sup>, the organizers of conference carry out preparatory measures for the conference of the current year:

a) Determine institution for higher education on which premises the conference will be held together with statement of terms and subject of the conference.

b) Provide forming of organizational and program committees of conference from specialists of the organizations of electric power industry and faculty members of the technical institutions for higher education on conference subjects;

c) Organize the conclusion of contracts on conference holding.

d) Prepare the first information report about conference holding according to the Appendix 1, and provide its mailing and the publication on an official information source.

3.1.2. The composition of both organizing and program committees is published in the first information report concerning the conference holding. Committees have the right to change its composition. Composition change is arranged by the organizing committee decision. On the basis of the decision on change of composition the information report concerning the conference holding is updated. The updated report concerning the conference holding is published on an official information source and sent to conference participants via e-mail addresses specified by participants at registration.

#### **3.2. Acceptance of applications for participation in conference**

3.2.1. In order to participate in conference one has to apply:

a) Within the time limit stated in the information report concerning the conference holding;

b) Apply to addresses (contact information) and the methods specified in the information report concerning the conference holding.

3.2.2. The subject of report is chosen by the participant of conference independently according to any subjects specified in the information report concerning the conference holding.

3.2.3. One participant can submit more than one application with different reports, including on one subject. At determination of winners of conference such reports are considered as independent.

3.2.4. The Organizing committee has the right to enquire from participants of conference the additional data for the purpose of forming of a personnel reserve for organizers and sponsors of conference.

#### **3.3. Reviewing of reports of conference participants and decision-making on the admission to participation in conference**

3.3.1. The organizing committee considers the submitted reports in order to determine their conformity to conditions of the conference specified in the information report concerning the conference holding. At any nonconformities of the report to the specified conditions the participant (and all co-authors) will receive the notification concerning the nonconformity found at the e-mail address, specified at registration. The author has the opportunity to eliminate the specified nonconformity within the time limit of application acceptance specified in information report concerning the conference holding.

3.3.2. Reports which have been submitted with the participant application, and which correspond to the conditions of the conference, specified in the information report concerning the conference holding, are sent by the organizing committee to the members of program committee for preliminary reviewing and remarks issuing (offers, recommendations). Members of program committee have the right to enquire the supplementary information and-or materials from the participant (co-authors). At reports assessment it is recommended to use Methodical instructions for report assessment given in the appendix 3.

3.3.3. Organizing committee makes the decision on the admission to participation in conference on basis of the review of the report of the participant by members of the program committee. The decision is sent to the participant (and co-authors) to the e-mail address, specified at registration or otherwise, as stated in the information report concerning the conference holding.

3.3.4. For reports on which supplementary information and-or materials are enquired, the terms of consideration specified in the information report concerning the conference holding, can be extended by the organizing committee decision. It shall not be more than for 10 (ten) working days. If after the specified term the enquired information is not presented, the organizing committee makes the decision on the admission to participation in conference, basing on the information which is available at the moment of decision-making.

3.3.5. The Organizing committee has the right to dismiss the participation application in following cases:

a) The subject of report does not correspond to the subjects specified in the information report concerning the conference holding;

b) Report design does not conform to the requirements stated in the information report concerning the conference holding;

c) More than two members of program committee have issued negative preliminary review of the report;

d) The application form for participation in conference is submitted after the expiry of the terms stated in the information report concerning the conference holding.

3.3.6. The organizing committee submits information concerning the accepted applications of participants together with reports to the program committee for forming of the program of conference not later than 15 (fifteen) calendar days after the terms for acceptance, stated in information report concerning the conference holding.

3.3.7. The conference Program is formed according to the requirements of provision of grouping of reports on scientific subjects and their distributions on days of carrying out of plenary sessions. The formed program is approved by the organizing committee decision, and is published on an official information source of conference in time not later than 10 calendar days prior to the beginning of conference.

### **3.4. Conference opening, reports hearing**

3.4.1. The Organizing committee ensures functioning of presidiums of plenary and section sessions of conference. For this purpose it nominates members of presidiums of plenary and section sessions of conference and coordinates with them the possibility of their participation in presidium.

3.4.2. Reports of participants are heard at plenary and section sessions of conference according to the conference program.

3.4.3. Presidiums of section sessions of conference provide an assessment of full-time performances of participants, considering answers to questions by the participant of conference. At the assessment of performances it is recommended to use Methodical instructions for report assessment given in the appendix 3.

### **3.5. Determination and rewarding of winners of conference**

3.5.1. Conference results are summed up separately for each subject among full-time participants of the section reports at conference. All participants of conference under 35 years, making a full-time report, will receive the diploma «The participant of the international scientific and technical conference «Electric power engineering in youth's eyes»».

3.5.2. The organizing committee takes into consideration and considers all materials received from presidium and members of program committee for each report at assessment and comparison of reports with the purpose of determination of winners of conference.

3.5.3. Winners of conference on subjects are the participants who have shown the best results and to whose reports are considered the first, the second and the third on the basis of results of an estimation and comparison. The participant with the first report takes the 1 place. The participant with the second report takes the 2 place. The participant with the third report takes the 3 place. The organizing committee has the right to introduce additional categories of winners.

3.5.4. The Decision on determination of winners of conference is drawn by the organizing committee session report and is placed in an official information source of conference not later than 2 (Two) calendar days from the moment of report registration.

3.5.5. Diplomas and prizes are presented to winners in solemn conditions at conference closing.

### **3.6. Closing of conference, organization of mailing of reports of conference participants**

3.6.1. Last working day of conference includes plenary session on summarizing the results of conference and rewarding of winners.

3.6.2. At plenary session devoted to the conference results summarizing the venue of next year conference is declared.



3.6.3. After closing of the conference the organizing committee:

a) Within 2 (two) calendar days after the conference closing provides the publication of the information letter, the program of conference, presentations of participants, the collection of reports, photo materials and brief summary on official information source of conference;

b) Within 5 (five) calendar days after conference closing provides submission of results of reviewing of reports of participants of conference and, upon the participant's agreement, his contact information in personnel services of organizers and sponsors of conference;

c) Organizes the publication of materials on the basis of reports of winners of conference in the Russian industrial scientific and technical editions, including the journals from the List of the Russian reviewed scientific magazines in which the basic scientific results of dissertations on competition of scientific degrees of the doctor and the candidate of science, confirmed by the Higher certifying commission of the Ministry of Education and Science of the Russian Federation should be published;

Provides the mailing to the correspondence participants of conference and the organizations from the list according the FL "About an obligatory copy of documents" from 12/29/1994 № 77-FL (in edition from 2/11/2002 № 19-FL), including for citing purposes.

3.6.4. The organizing committee and program committee both work according to the present Regulations till the moment of the publication of the first information letter concerning the next year conference. Since this moment all the rights and obligations of organizational and program committees according to the present Regulations are passed to newly declared committees.

## APPENDICES

№1 Standard information report concerning the holding of International scientific and technical conference “Electric power engineering in youth’s eyes”

№2 Symbol of International scientific and technical conference “Electric power engineering in youth’s eyes”

№3 Guidelines for the Reports Assessment of the International Scientific and Technical Conference “Electric Power Engineering in youth’s eyes”

to Regulations of international scientific and  
technical conference “Electric power engineering  
in youth’s eyes”

Standard information report concerning the holding of International scientific and technical conference  
“Electric power engineering in youth’s eyes”

(form)

Dear colleagues!

Organizers

hold on date in city

International Scientific and Technical Conference for the Youth

«Electric Power Engineering in Youth’s Eyes - year»

**CONFERENCE GOALS** – the development of scientific and creative potential of young researchers in the area of electric power engineering together with the selection of the personnel reserve for the branch offices of the System Operator and scientific and educational institutions.

**Conference problems** – presentation and discussion of the newest scientific research results together with the practical achievements in the area of electric power engineering, development and strengthening of scientific bonds between young scientists, post graduates and involvement of graduate students in scientific and research activities.

#### SCIENTIFIC SCHOOLS (WORKSHOPS) OF THE CONFERENCE

- Electric power system modeling and management;
- Relay protection, power system automation;
- Monitoring and Diagnostics in Electric Power engineering;
- Operation, Market and Innovative development of Electric Power Systems;
- Heat and Nuclear power plants;
- Power Machine Building and Fuel;
- Thermal Physics and Heat engineering;
- Small (distributed) generation and Renewables;
- Staff management practices and problems of Specialist training in Power industry.

## CONFERENCE PROCEDURE:

- date – arrival day
- date – plenary lectures, workshops
- date – Workshops
- date – Round table, Conclusion, Excursion program

## ORGANIZATIONAL COMMITTEE

Co-chairs:

Name, scientific degree, position, organization

Organizing committee members:

Name, scientific degree, position, organization

## PROGRAM COMMITTEE

Co-chairs:

Name, scientific degree, position, organization

Program committee members:

Name, scientific degree, position, organization

## CONDITIONS OF PARTICIPATION

The participation of young researchers (aged to 35) as co-authors of workshop reports is obligatory.

It is desirable for the report to be presented by the young co-author.

In order to participate in the conference one should register before **date** on the following web site **web site** and submit the report.

All submitted original version reports which satisfy the requirements and pass the review are to be published in collected papers.

All participants will be supplied with necessary projection equipment.

**Official conference languages** are Russian and English.

**Forms of participation:** full-time, in absentia.

Organizational Fee: none.

Accommodation: Organizational committee provides the booking of hotel rooms in **city** with taking into account the accommodation preferences stated by the participants in the application form. It is required to confirm the necessity of hotel booking before **date and tel.**

## Results of the Conference:

As the result of the conference the authors of the selected reports will have opportunity to be published in the following magazines:

### **Journal title**

Partners of the conference also announce competitions for the best reports in several nominations.

### **Contact address**

**Organizing committee reserves the right to change the information report. The changed text is to be sent to participants via e-mail, specified by the conference participants at registration and to be published on conference web site**

## REPORT DESIGN REQUIREMENTS

### **REPORT TITLE**

(Capital letters, 14 pt, bold, centered)

indent, 14 pt

N.P.Surname, N.P. Surname

Organization Name in full (Educational Institution, Scientific Research Institution, Faculty,  
Department, Group)

(14 pt, centered)

indent, 14 pt

Report volume – **from 4 to 6 full A4 pages**, Microsoft Word 3.0 and higher.

#### **Text requirements:**

- margins: up, bottom, right, left – 30 mm;
- portrait orientation;
- font Times New Roman, 14 pt;
- line spacing – single;
- alignment – in width;
- paragraph indent – 1.25 cm (default);
- automatic hyphenation;
- forced hyphenation, extra spaces and indents are prohibited;
- formulas – Microsoft Equation 3.0;
- figures – black and white (or shades of grey);
- references to used sources – in square brackets.

**The report should be thoroughly edited.**

**The use of automatic lists and references to figures, tables and used sources in the text is prohibited!**

**The text should be concluded with SUMMARY or CONCLUSIONS.**

#### **Requirements for the design of figures (pictures, graphs, charts, diagrams):**

- all figures should be black and white;
- font size on the figures not less than 12 pt;

- figures created in Word should be grouped;
- Figures and diagrams alignment – centered;
- Underlines and figure names should be grouped with figures, font Times New Roman, 14 pt, no indents, alignment – in width;
- Figure wrapping in the text – up and down;
- Figures should be placed in the text immediately after mentioning for the first time or on the next page;
- All figures should have references. One should write «...according to Figure 2» and so on.

All figures are presented in portrait orientation.

### **Table design requirements:**

Both the title and the number of the table (for instance, Table 1) should be positioned above with the alignment to the right.

### **Formula design requirements:**

All the formulas should be typed in Microsoft Equation3.0 with the following settings:

- normal 14 pt;
- Large index 12 pt;
- Small index 10 pt;
- Large symbol 18 pt;
- Small symbol 12 pt.

Formulas should be centered with their numbers put in brackets to the right.

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

### **References design requirements:**

The numbers of references in the text are placed in square brackets. The list of references is placed at the end of the report. Please note the general order of entries for books in bibliographic description:

- **Books** - Surname, Initials (period), Full title (period), Place of publishing (colon), Publisher (comma), Number of pages (for instance, 170 p.) or the Page (for instance P.100);

- **Magazine article** – Surnames of authors and initials (period), Full title (double slash), Magazine (period), Year (period), Volume number (period), Issue number (period), Pages;
- **Dissertations** – Surname, Initials (period), Dissertation Title (colon), Dissertation (or author's abstract) for a degree of Doctor (or Candidate) of Science in Engineering (slash), Institute (period), City (comma), Year (period), Number of pages.

## REFERENCES

(Capital letters, 14 pt, Left alignment, indent 1.25 cm):

1. Petrov Y.P. Variational methods in Theory of Optimal control L.: Energy, 1977. 280 p.
2. Vasilenko S.V., Levitskiy A.E. Remote power quality control complex in municipal power substations. // Microelectronic information control systems and complexes: collected papers of All-Russian science school, Novochoerkassk, 5-7 September 2011. Novochoerkassk: LIK, 2011. P.41-43.
3. Shevtsov M.V. Transmission of discrete signals between relay protection and automation devices using digital communication channels // Relay specialist. 2009. №1. P.60-63.
4. Patent. 2170880 RF, MPK7 F 23 D 14/02. Gas burner device / A.V. Antokhin, V.N. Romanenko, F.I. Syomin; Close corporation "STEKLOPAK". № 2000125064/06; claimed. 05.10.00; published. 20.07.01, Bulletin. № 5.

In one indent after the references list one should give brief information concerning the scientific advisor including the following: Scientific Advisor: Name, Patronymic Name, Surname, scientific degree, position, and place of work.

## **Report design requirements are the same for reports submitted in English**

Report design example

### DEFINITION OF FIELD CONTROLLER PARAMETERS BY SHIFTING POLES OF POWER SUPPLY SYSTEM

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Ural Federal University

Building modern energy systems means improving the methods of power supply control. Nowadays generator field controller automatics is the main tool for maintaining the required level of voltage in the system. It also influences greatly the capacity and stable operation of Electric Power stations. Field controllers have a considerable number of adjustments. If adjusted incorrectly, it can result in failures. Therefore the correct choice of parameters is of important practical value [ 1 ].

The field controller model is based on description [3]. The structural scheme is the represented at Fig 1.

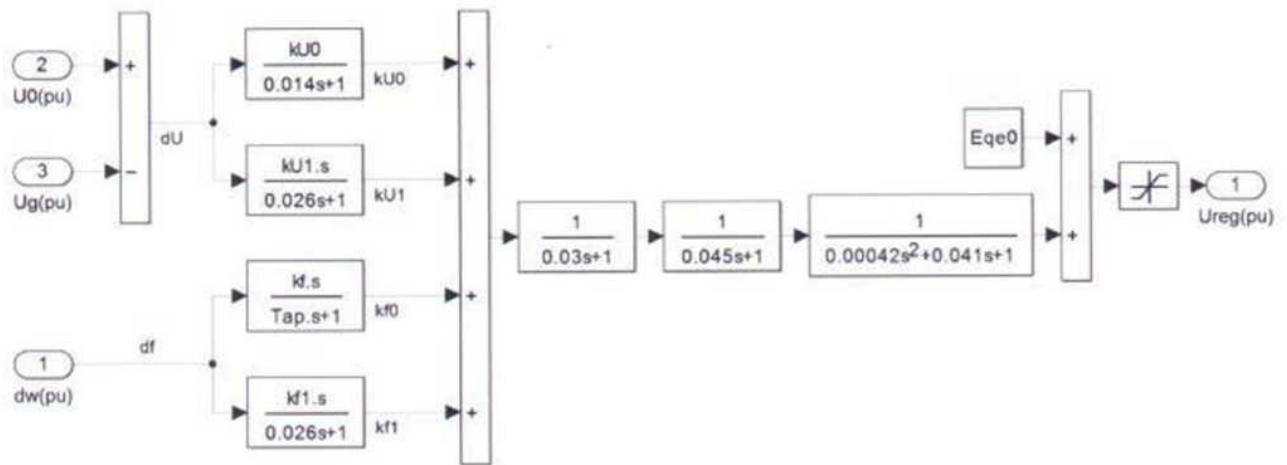


Fig 1. Structural scheme

....

With the help of algorithm of direct search [2] the following parameters were defined:

$$\min J = \max_i \frac{\alpha_i}{\sqrt{\alpha_i^2 + \omega_i^2}}, \quad (1)$$

where J – value of function;  $\alpha_{i0}$ , - actual ...

Table 1 . Main types of diagnostics [2]

Method of diagnostics	Advantages	Disadvantages
...		

#### REFERENCES:

1. Armeev D.V., Mikheev A.V., Chekhodanskikh A.V. Calculation of parameters of synchronous generator. // Collected papers of NGTU. - 2011. - №2(64) - 105-116
2. Masayuki Watanabe, Takanori Izumi, Takuhei Hashiguchi, Yasunori Mitani An approach for tuning of power system stabilizers based on the wide area phasor measurement // 15\* PSCC, Liege, 22-26 August 2005.

Scientific advisor: A.V. Pazderin, Doctor of Technical Sciences, professor, head of automated power systems department at Ural ENIN.



to the Regulations of the International Scientific  
and Technical Conference “Electric Power Engineering in Youth’s eyes”



Fig1. Conference emblem



Fig 2. Conference banner example

to the Regulations of the International Scientific  
and Technical Conference “Electric Power Engineering in Youth’s eyes”

## Guidelines for the Reports Assessment of the International Scientific and Technical Conference “Electric Power Engineering in Youth’s eyes”

### 1. General Provisions

1.1. The Guidelines are used to assess the reports and presentations of the participants of International Scientific and Technical Conference “Electric Power Engineering in youth’s eyes” (conference).

#### 1.2. The guidelines should be used by:

- 1.2.1. Program Committee Members for the reports assessment;
- 1.2.2. Subpanel for the presentations assessment;
- 1.2.3. Organizing Committee for the winners’ selection.

### 2. Assessment and Correlation

#### 2.1 Criteria for Reports Assessment

To assess and correlate the reports the criteria given in the Table 1 are used.

Table 1

№	Assessments criterion/ sub-criterion	Number of scores for the criterion	Criterion Significance in %	Criterion Significance calculation
		( <i>K</i> )	( <i>P</i> )	( <i>B</i> )
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>
1	<b>Knowledge in the sphere of engineering and technologies applied (integrated, developed):</b>	<b><i>K<sub>зн</sub></i></b>	<b>45%</b>	<b><i>B<sub>зн</sub></i></b>
1.1.	- the relevance of the report	<i>k<sub>1,1</sub></i>	30%	<i>b<sub>1,1</sub></i>
1.2	-correct use of technical notions	<i>k<sub>1,2</sub></i>	40%	<i>b<sub>1,2</sub></i>
1.3	-adequate presentation of technologies applied (integrated, developed)	<i>k<sub>1,3</sub></i>	30%	<i>b<sub>1,3</sub></i>
2.	<b>Ability to collect, process and systemize necessary information on the required topic from various sources</b>	<b><i>K<sub>инф</sub></i></b>	<b>10%</b>	<b><i>B<sub>инф</sub></i></b>
2.1	- profound presentation of the subject (analysis of theoretical and practical aspects)	<i>k<sub>2,1</sub></i>	50%	<i>b<sub>2,1</sub></i>
2.2	-adequate references	<i>k<sub>2,2</sub></i>	25%	<i>b<sub>2,2</sub></i>
2.3	-use of information from foreign sources presented in the proceedings of panel meetings and workshops	<i>k<sub>2,3</sub></i>	25%	<i>b<sub>2,3</sub></i>
3	<b>Skills of independent research</b>	<b><i>K<sub>науч</sub></i></b>	<b>45%</b>	<b><i>B<sub>науч</sub></i></b>

3.1	- clear understanding of the research subject	$k_{3,1}$	25%	$b_{3,1}$
3.2	- selection of research goals, objectives and tools	$k_{3,2}$	25%	$b_{3,2}$
3.3	- correct use of empirical and theoretical research methods including validity and profound analysis of collected data	$k_{3,3}$	25%	$b_{3,3}$
3.4	-conclusions: presence, correct structuring, validity	$k_{3,4}$	25%	$b_{3,4}$

## 2.2. Reports Assessment Method

Reports are assessed in compliance with the following rules:

- Each report is assessed in the range from 1 to 10 (whole numbers) for each sub-criterion. Maximal point 10 is given to the report with the best sub-criteria scores whereas the minimal score 1 – to the report with the worst sub-criteria points. If points for a sub-criterion are equal, then the reports are given the same scores.
- Sub-criterion scores are considered in compliance with their significance in percentage specified in the Table of the Provision 1.2 of the Guidelines and are calculated by the formula:

$$b_i - k_i * P \quad (1)$$

where:

$b_i$  – the score of the sub-criteria from the assessment ( $b_{1,1-1,3}$ ,  $b_{2,1-2,3}$ ,  $b_{3,1-3,4}$ );

$k_i$  - the score of the sub-criterion according to the Table in the Provision 2.1. of the Guidelines ( $k_{1,1-1,3}$ ,  $k_{2,1-2,3}$ ,  $k_{3,1-3,4}$ );

$P$  – the significance of the sub-criterion (in %) according to the Table in in the Provision 2.1. of the Guidelines

- The score for the criterion ( $B_{зн}$ ,  $B_{инф}$ ,  $B_{науч}$ ) are summed from the scores for sub-criterion and their constituents defined by their significance according to the formulae:

$$B_{зн} = b_{1,1} + b_{1,2} + b_{1,3}, \quad (2)$$

$$B_{инф} = b_{2,1} + b_{2,2} + b_{2,3}, \quad (3)$$

$$B_{науч} = b_{3,1} + b_{3,2} + b_{3,3} + b_{3,4}, \quad (4)$$

where:

$B_{зн}$  – the score of the criterion “Knowledge in the sphere of engineering and technologies applied (integrated, developed)”;

$B_{инф}$  – the score for the criterion “Ability to collect, process and systemize necessary information on the required topic from various sources”;

$B_{науч}$  – the score for the criterion “Skills of independent research”

- Total score is summed from the criteria scores for the report including their significance according to the formula:

$$B_0 = B_{зн} + B_{инф} + B_{науч} \quad (5)$$

## 2.3 Presentations Assessment Criteria

To assess and correlate the presentations made by the participants of the conference the criteria given in the Table 2 are used.

Table 2

№	Assessments criterion/ sub-criterion	Number of scores for the criterion	Criterion Significance in %	Criterion Significance calculation
		( <i>K</i> )	( <i>P</i> )	( <i>B</i> )
<i>l</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>
<b>1</b>	<b>Assessment of goal setting and solutions</b>	<b><i>K<sub>ns</sub></i></b>	<b>15%</b>	<b><i>B<sub>ns</sub></i></b>
1.1.	- the relevance of the presentation	<i>k<sub>1.1</sub></i>	50%	<i>b<sub>1.1</sub></i>
1.2	-goals and objectives correlation with the main ideas of the presentation	<i>k<sub>1.2</sub></i>	50%	<i>b<sub>1.2</sub></i>
<b>2.</b>	<b>Presentation</b>	<b><i>K<sub>ac</sub></i></b>	<b>40%</b>	<b><i>B<sub>ac</sub></i></b>
2.1	- speech, contact with the audience, feedback from the audience	<i>k<sub>2.1</sub></i>	40%	<i>b<sub>2.1</sub></i>
2.2	-structure of the speech, systematic layout	<i>k<sub>2.2</sub></i>	30%	<i>b<sub>2.2</sub></i>
2.3	-content, information, visualization	<i>k<sub>2.3</sub></i>	30%	<i>b<sub>2.3</sub></i>
<b>3</b>	<b>Response of the participant to the questions from the audience</b>	<b><i>K<sub>om</sub></i></b>	<b>45%</b>	<b><i>B<sub>om</sub></i></b>
3.1	- correct use of terms and notions	<i>k<sub>3.1</sub></i>	25%	<i>b<sub>3.1</sub></i>
3.2	- completeness of the answer	<i>k<sub>3.2</sub></i>	25%	<i>b<sub>3.2</sub></i>
3.3	- the depth of theoretical knowledge on the topic and practical experience	<i>k<sub>3.3</sub></i>	25%	<i>b<sub>3.3</sub></i>
3.4	-conclusions: presence, correct structuring, validity	<i>k<sub>3.4</sub></i>	25%	<i>b<sub>3.4</sub></i>

## 2.4. Presentations Assessment Method

Presentations are assessed in compliance with the following rules:

- Each presentation is assessed in the range from 1 to 10 (whole numbers) for each sub-criterion. Maximal point 10 is given to the presentation with the best sub-criteria scores whereas the minimal score 1 – to the presentation with the worst sub-criteria points. If points for a sub-criterion are equal, then the presentations are given the same scores.
- Sub-criterion scores are considered in compliance with their significance in percentage specified in the Table of the Provision 2.3 of the Guidelines and are calculated by the formula:

$$B_i - K_i * P, \quad (6)$$

where:

*b<sub>i</sub>* – the score of the sub-criteria from the assessment (*b<sub>1.1-1.3</sub>*, *b<sub>2.1-2.3</sub>*, *b<sub>3.1-3.4</sub>*);

*k<sub>i</sub>* - the score of the sub-criterion according to the Table in the Provision 2.1. of the Guidelines (*k<sub>1.1-1.3</sub>*, *k<sub>2.1-2.3</sub>*, *k<sub>3.1-3.4</sub>*);

$P$  – the significance of the sub-criterion (in %) according to the Table in in the Provision 2.3. of the Guidelines.

- c) The score for the criterion ( $B_{n3}$ ,  $B_{6c}$ ,  $B_{om}$ ) are summed from the scores for sub-criterion and their constituents defined by their significance according to the formulae:

$$B_{n3} = b_{1.1} + b_{1.2} , \quad (7)$$

$$B_{6c} = b_{2.1} + b_{2.2} + b_{2.3} , \quad (8)$$

$$B_{om} = b_{3.1} + b_{3.2} + b_{3.3} + b_{3.4} , \quad (9)$$

$B_{n3}$  – the score of the criterion “Assessment of goal setting and solutions”;

$B_{6c}$  – the score for the criterion “Presentation”;

$B_{om}$  – the score for the criterion “Response of the participant to the questions from the audience”

- d) Total score is summed from the criteria scores for the presentation including their significance according to the formula:

$$B_e = B_{n3} + B_{6c} + B_{om} \quad (10)$$

## 2.5 Total Score

The total score is calculated by the organizing committee by the following rules:

- The final score is summed from the scores obtained from the formulae (5) and (10).
- Depending on the results and the subject, the organizing committee ranks the participant in order of descending. Thus the first place is given to the participant with the maximal score.
- If several participants have the same final scores then they are ranked equally.
- If the program committee didn't provide the assessment according to the formula (5), then the corresponding subpanel may make an assessment.