

DEAR STUDENTS, PHD-STUDENTS AND YOUNG SCIENTISTS!

The Rectorate and Council on Research Student's Works of Kazan National Research technical University named after A.N.Tupolev-KAI (KNRTU-KAI) invite you to participate in The International Youth Scientific Conference «XXII Tupolev's Readings (School of Young Scientists)» which will be held in Kazan, Russia, from 19 to 21 of October 2015.

Participants are: students and PhD-students. Forms of participation are: participation "in-person" or distant participation.

On the conference will be reviewed and discussed current issues and problems of development for aerospace technology, power engineering, instrumentation, information, info-communication, radio-electronic technologies, and also socio-economic aspects in creation aerospace vehicles.

ADDITIONAL EVENTS

- Competitive selection of innovative projects for participation in the Program «U.M.N.I.K.» (www.fasie.ru).
- Master-classes on the majors.
- Sightseeing tour on the city of Kazan, visit to museums.

TERMS OF PARTICIPATION

To participate in the conference the following needs to be done before **1st of May 2015**:

- To send to the address of steering committee an application form, a conference paper to be published and accompanying documents;
- To pay a registration fee.

A registration fee **in amount of 300 Rubles (incl. VAT)** includes printing of conference program, informational and invitation letters, conference materials in electronic form (on CD).

ATTENTION! The cost for **a hard copy of collected works** (one volume) is **800 Rubles** – transfer to the person, **1000 Rubles** – when sending by Russian mail (*is paid additionally to the main registration fee!*).

Fee payment is made by bank transfer. Contract forms are available on the website <http://www.kai.ru/science/konf/tupolev/>.

SECTIONS

1. Aeromechanics, Design and Strength of Aviation Constructions:

1.1. Mathematical Modeling in Problems of Aerodynamics.

2. Prospective Materials and Structure-Forming Technologies:

2.1. Theory of Mechanisms and Machines, Mechatronics and Robotics.

2.2. Laser and Plasma Technology.

3. Avionics, Electrical Equipment and Control Systems.

4. Heat Engineering, Heat Engines and Power Installations

5. Information Technologies for Aircraft- and Machinery Engineering:

5.1. CAD Systems.

5.2. Applied Mathematics and Informatics.

5.3. Automated Systems of Processing Information and Control.

5.4. Information Security Systems.

5.5. Computer Systems.

5.6. Dynamics of Processes and Control.

6. Radio Electronic, Info Communication, Instrumental Systems and Complexes.

7. Aerospace Technologies and Technosphere Safety.

7.1. Aerospace Technology and Technosphere Safety.

7.2. Environmental Engineering.

8. Socio-Economic Aspects in Creation of Aerospace Vehicles:

8.1. Economical Fundamentals of Competitive Development of Aerospace Industry.

8.2. Organization of High-Tech Production in Aerospace Industry.

8.3. Aerospace Industry: History and Communicational Support.

8.4. Social Relations and Potential of Youth in the Area of Aerospace Industry.

8.5. Philosophical and Historical-Methodological issues in Aerospace Industry.

As an outcome of the conference is planned to publish the *collection of papers* in electronic form. This collection of works will be assigned codes such as ISBN, UDC and BBK. Papers will be placed in the system of **Russian Index of Scientific Citation (RISC)** of Scientific Electronic Library.

On the conference should be presented the results of original researches and solutions for problematic issues.

The steering committee reserves the right to reject materials that do not meet the conference topics and / or formatted in violation of these requirements, and submitted after the deadline for sending of materials (without notice to the authors).

Materials are published in the conference's collection in author's redaction.

The steering committee does not make text editing.

Each author can send max. *two* papers.

Number of authors in each paper cannot be more than three.

PROVIDING OF MATERIALS

An application form and materials for participation in the conference are received by e-mail before **1st of May 2015**.

Materials should be sent in archive-file RAR or ZIP (a name of e-file should be named as a surname of first author), and include

the following:

- *paper(s) in volume not more than 6 pages*;
 - a conclusion of experts about publishing permission in public media *;
 - an act of expertise *;
 - documents confirming a payment of registration fee (scanned versions of the receipt on payment and the agreement signed from side of participant);
 - an agreement about placement of publication in RISC.
- *Original conclusions of experts about publishing permission in public media (1 copy) and act of expertise (1 copy) with seal on the approving signature must be presented to the steering committee.*

BANK DETAILS FOR REGISTRATION FEE PAYMENT

Recipient is UFK on RT (KNRTU-KAI, Account No.

20116X02750, Note: **X** is the Latin letter)

ITN (VAT number) No. 1654003114

CRR No. 165501001

Operating Account No. 40501810292052000002

In the unit of National Bank of the Tatarstan Republic

RCBIC No. 049205001, OKTMO No. 92701000

BCC No. 00000000000000000130

Payment destination: for the services on the event "Tupolev's Readings" *Name and Surname of participant*.

All current information on the conference «XXII Tupolev's Conference» will be available on the website <http://www.kai.ru/science/konf/tupolev/>.

AN EXAMPLE OF PAPER FORMATTING

UDC 621.694.31

(gap)

INVESTIGATION OF THE EJECTOR WITH A CURVED INLET PART

(gap)

Khaliulin R., Sychenkov V., Panchenko V.

Supervisors: V. Sichenkov, candidate of technical sciences, docent
(Kazan National Research Technical University named after A.N. Tupolev, Kazan)

(пробел)

Abstract: The results of numerical and experimental studies of the ejector with a curved inlet part presents. A feature of these studies is that the ejector, the pressure of the passive stream and the outlet pressure of the ejector is equal to atmospheric pressure.

Below is placed the text of paper which contains short summary of the objective, used methods, and results of researches (and if it is possible: an analysis of achieved results and conclusions).

E-materials must be compatible with file editor *MS Word 2003*, font is *Times New Roman* of 14 pt, paragraph indentation is 1.25 cm; single feed pitch, full justification, paper sheet format is A4, all page fields are 2.0 cm.

Formulas in the text are prepared in *Microsoft Equation*.

Schemes and Tables must have respective headings which should be placed over Schemes or Tables. Each heading must begin with word “Table” or “Scheme”, and its number in order (if necessary) and aligned on the right edge. On the next line is printed name of table or scheme, and aligned on the center of page.

Pictures, schemes, charts (not more than 2 objects on the page!) must be clear, in black-white mode, in gradation of grey. Each picture must have caption (underneath the picture) which explains all elements of the picture. A caption cannot be of any part of the picture. Photos are not accepted.

List of references must be prepared according to the State Standard GOST No. 7.1-2003, and placed after text of paper, and separated from it by one line gap. Bibliography must contain not more than 4 references. The references in the text should be given as the numbers in the square brackets, e.g. [1], [2], Etc.

Examples of Bibliographic Records:

1. *Evdokimov Yu.K.* Distributed measurement environments and continuum-measurements: principles, topology, algorithms// Non-Linear World. 2007. V.5. No. 10-11. Pp. 639-656.

2. *Tayfun Cimen.* State-Dependent Riccati Equation (SDRE) Control: A Survey // Proc. of the 17th World Congress of the International Federation of Automatic Control, July 6–11, 2008. Seoul, Korea, 2008.

Application Form for Participation in the Conference XXII Tupolev’s Readings (School of Young Scientists)

Surname, Name (Names) of Participant (in full)	
Academic Degree, Academic Rank (students and PhD-students specify year/course of study)	
Organization (in full)	
Position	
Postal Address	
Contact Phones (working / home / mob. with codes of country and city)	
E-mail	
No. and Name of Section (according to the Call for papers)	
Name of Paper	
Surname, Name (s) of Author (in full), and Co-Author(s)	
Form of Participation in the Conference (please leave required)	– Presentation <i>with paper and report</i> ; – <i>Poster (Stand)</i> presentation; – <i>Without</i> presentation; – <i>Distant</i> participation.
Participation in the competitive selection on the Program «U.M.N.I.K.» (Yes/ No)	
Sum, No. and Date of Document about Payment of Registration Fee	
Payment for a Hard copy of Collection of Works	

Address of Steering Committee

10, K.Marx St., Kazan 420111, Russian Federation
 Unit of Organization of Educational and Research Students’ Activity, Room No. 207
 Kazan National Research Technical University
 named after A.N.Tupolev-KAI (KNRTU-KAI)
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 Secretary: Mrs. Evdokimova Eugenia Alexandrovna
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 E-mail: nirs.kai.t4@gmail.com,
 Subject of e-mail: «XXII Tupolev’s Readings».

MINISTRY OF EDUCATION AND SCIENCE
 OF THE RUSSIAN FEDERATION
 UNITED AIRCRAFT CORPORATION
 ACADEMY OF SCIENCE OF THE TATARSTAN REPUBLIC
 KAZAN NATIONAL RESEARCH TECHNICAL UNIVERSITY
 NAMED AFTER A.N.TUPOLEV-KAI (KNRTU-KAI)



The International Youth Scientific Conference

**«XXII Tupolev’s Readings
(School of Young Scientists)»,**

dedicated to the 70th anniversary of the Victory
 in the Great Patriotic War

October 19th-21th, 2015
 KAZAN