

**Tula Oblast Government**  
**Ministry of Education and Science of the Russian Federation**  
**Lomonosov Moscow State University**  
**Center for Project Management in Industry (Federal Budgetary Institution**  
**"Russian Technological Agency")**  
**Project office of the Ministry of Industry and Trade of the Russian Federation**  
**Foundation for Advanced Studies**  
**Foundation for Assistance to Small Innovative Enterprises in the Scientific and**  
**Technical Sphere**  
**Russian National Committee for Theoretical and Applied Mechanics**  
**Interdepartmental Analytical Center**  
**Tula State Lev Tolstoy Pedagogical University**  
**Fidesys engineering company**  
**Engineering center "Digital production means"**  
**November 27 – December 1, 2017**

## **DIGITAL PRODUCTION MEANS OF ENGINEERING ANALYSIS**

### **The objectives of the Conference are:**

- development of scientific and practical communications in working out and using digital production means of engineering analysis;
- presentation of scientific research results (in the form of oral and poster presentations) of university, academic and branch science by profile industry representatives in the development and use of engineering software (ES) with a view to its possible commercialization, including funding for design and experimental development as well as the presentation of the scientific and technical results obtained by working out and using industrial ES.

**The co-organizers of the Conference** are JSC "KBP Instrument Design Bureau named after academician A.G. Shipunov"; Production Association "TULAMASHZAVOD"; Federal State-owned Enterprise "Aleksinskiy chemical plant"; JSC "Polema".

The Conference schedule is planned to include the following **sections**:

1. **Computational mechanics** (problems of the mechanics of a deformable solid; problems of fluid and gas mechanics; new materials; additive technologies; metamaterials; and numerical methods). Head of the section: academician of the RAS V.A. Levin. Deputy heads: corresponding member of the RAS A.A. Burenin (Director of Institute of Machinery and Metallurgy of FEB RAS), corresponding member of the RAS S.G. Psakhie (Director of ISPMS SB RAS).

2. **Use of engineering software to solve industrial problems** (use of engineering software to solve industrial machinery engineering problems; use of engineering software to solve industrial problems in the oil, gas and mining industry; use of engineering software to solve industrial problems in construction). Head of the section: academician of the RAS E.E. Son. Deputy heads: corresponding member of the RAS S.A. Tikhotsky (director of IPE RAS), corresponding member of the RAS A.A. Baryakh (Director of MI UrB RAS).

3. **Directions and results of engineering software development for engineering analysis** (development of packaged engineering software; development of cloud services based on engineering software; development of specialized branch

solutions based on engineering software). Head and Deputy Head of the section are: engineering software vendor representatives.

4. **Education issues in specialists training in the development and use of engineering software, including high-performance computing.** Head of the section: corresponding member of the RAS V.V. Voevodin. Deputy Head: academician of the RAS, Doctor of Physics and Mathematics, professor V.A. Panin.

The event will bring together leading domestic branch developers with a demonstration of the results implementation and technical and economic prospects of using CAE-CAD applications. The Conference will provide detailed information on partnership policies and support programs, the latest news and market events directly from manufacturers. A number of vendors will present the results of projects implementation by customers based on particular examples. Speakers and participants will discuss the technical features of the products and current market trends taking into account the changing requirements of legislation and specifics of the economic and foreign policy situation.

Within the framework of the Conference, "**round tables**" are planned in the following areas:

1. Engineering software place in the National Technology Initiative (NTI) implementation. Moderators: A.I. Borovkov (head of the NTI working group "TechNet"), S.A. Zhukov (head of the NTI working group "AeroNet");

2. Options for promoting domestic engineering software in accounting practices, including small and medium-sized enterprises. Moderator: V.A. Pastukhov, CEO of the Center for Project Management in Industry of Federal Budgetary Institution "Russian Technological Agency";

3. Options for supporting scientific and technical developments for domestic engineering software and its vendors. Moderators: V.I. Dovgiy, CEO of the Intersectoral analytical centre; A.D. Fertman, Director for Science, technology and education of the Skolkovo Foundation.

As for the format of participation, **only full-time participation** is regarded. If there is a reasonable excuse, it will be considered an opportunity for key (plenary) reports to be realized by means of remote communication including a question-answer form of communication.

Selected papers will be published free of charge after their presentation at the Conference in the theoretical journal "Chebyshevskii Sbornik". The journal is indexed in the databases: MathSciNet of the American Mathematical Society and Springer's ZentralblattMATH, Russian Science Citation Index (RSCI) (Russian collection Web of Science); it is reviewed by the abstract journal "Matematika" (Russia, VINITI), "Mathematical Reviews" (USA, American Mathematical Society) and included in the list of Higher Attestation Commission.

Representatives of university, academia and branch science are **released from the organizational fee**.

System of support for participation in the Conference is provided for young scholars with the most relevant reports.

The working languages of the Conference are Russian and English.

**Registration for participation in the Conference is carried out on the website <http://tsput.ru/digit71> until October 20, 2017.**

**Prior to the Conference, the Proceedings are to be published.**

All of the submitted materials, which have passed preliminary analysis but not included in the theoretical journal "Chebyshevskii Sbornik", will be published free of charge in the Proceedings of the Conference. All submissions will be checked by the system "Antiplagiat" (percentage of materials originality must be not less than 60%).

The Proceedings of the Conference will be made available in the Scientific Electronic Library (eLIBRARY.ru) with participation in the Russian Science Citation Index (RSCI) and transferred to bibliographic and abstract database Scopus.

**Submission Text Layout.** The text of the article/abstract should be submitted in the .doc MS Word format; font is Times New Roman, size is 14 pt (for footnotes – 12 pt), spacing is 1.5, page margins are: top and bottom –2 cm; left – 3 cm; and right – 1.5 cm. The first line indent is 1.25 and it is automatically set. The text must be edited and proofread. Endnotes are set to be automatic, in Russian, corresponding to the GOST requirements. The article submission is limited by the size of from 5 to 10 pages. The abstract submission should be no more than 1.5 pages.

The Editorial Board of the Proceedings reserves the right to refuse any author in the publication in case of inconsistency of the manuscript text within the specified requirements.

**Sample of the article layout:**

**TITLE**

Ivanov I.I.

*Tula State Lev Tolstoy Pedagogical University*

*Аннотация:*

*Ключевые слова:*

*Title:*

*Abstract:*

*Keywords:*

Text ... [1, p. 12].

Bibliography

1. Ivanov, I.I. Osnovy metodiki trudovogo obucheniya [Fundamentals of the methodology of labor training] / I.I. Ivanov, P.P. Petrov; Ed. by S.S. Sidorov. – Tula: TSPU Publishing house, 2012. – P. 12.

As for accommodation, nonresident participants of the Conference are invited to book rooms in Tula hotels, for example "SkRoyalTula", "Tula", "Moskva". Accommodation in TSPU hotel rooms is afforded.

For further accommodation information, please, visit the following website:  
<http://skroyal-tula.ru/>; <http://hoteltula.ru/>; <http://moskvatula.ru/>.

**For those who wish, workshops by engineering software vendors are provided.**

**The cultural programme includes** visits to memorial and natural preserve-museums "Yasnaya Polyana" and "Polenovo", the Weapons Museum, the Tula Kremlin. Visiting Tula enterprises museums is possible by agreement.

Conference secretariat: Ryzhov Yuriy Gennad'yevich

Tel. +7 (4872) 350294, +7 (919) 0818460.

E-mail of the Conference secretariat: [conference@tsput.ru](mailto:conference@tsput.ru).