XXI INTERNATIONAL WORKSHOP HEMs-2026

High Energy and Special Materials:
antiterrorism, security and civil applications

HEMs

2026 High Energy and Special Materials

September 10–11, 2026, Tomsk, Russia

First announcement and call for papers

WORKSHOP ORGANIZERS

National Research Tomsk State University, Russia
JSC Federal Research & Production Center "Altai", Russia
Defence Research and Development Organisation, India

WORKSHOP CO-CHAIRS

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Tomsk, Russia

Dr. Boris Pevchenko
Biysk, Russia

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Prof. Raphaël Terreux	Université Lyon 1, Lyon, France

ORGANIZING COMMITTEE

Secretary of the Workshop

Dr. Marina Khmeleva	Tomsk State University, Tomsk

GENERAL INFORMATION

The International Workshop on "High Energy and Special Materials (HEMs)" is a regular event organized by Tomsk State University and Federal Research and Production Centre (FR&PC), Russia in association with international partners, such as Politecnico di Milano, Italy; Airbus Safran Launchers (Ariane Group), France; JAXA, Japan; Universite Lyon 1, France, High Energy Materials Research Laboratory (HEMRL) and Advanced Centre for Energetic Materials (ACEM), India.

HEMs first took place in 2004 and it was subsequently held in Russia and other countries, such as France, Japan, and Monaco. The last HEMs workshop was held in November 2025 in Nasik, India. The HEMs workshop has attracted eminent personalities and researchers from Russia, UK, USA, Italy, Japan, France, Germany, Bulgaria, Israel, India, Austria, Turkey and others.

The XXI International Workshop HEMs-2026 "High Energy and Special Materials: antiterrorism, security and civil applications" will be held on September 10–11, 2026 in Tomsk.

The Workshop will focus on research and technology advances in developing and applying fundamentally new approaches to the creation of cutting-edge materials, including nanomaterials, chemical substances (high-energy and pharmaceutical) for civil purposes in the search of innovative technologies. The Workshop will also involve the discussion of issues, approaches, and results in the formation and advancing the following research topics.

WORKSHOP KEY TOPICS

Session 1. HEMs development, properties, diagnostics, and combustion.
Session 2. Dual-purpose chemical substances and medical and biological materials; biosafety.
Session 3. Nanoscience and nanotechnology.
Session 4. Advances in special materials and allied technologies.
Session 5. Biomedicine.
Session 6. Research support for the solution of antiterrorism issues.

REGISTRATION FEE

Delegates – 210 USD

The cost of accommodation and flights is not included in the registration fee.

REGISTRATION

Registration of participants via the https://conference.tsu.ru/hems will be activated at a later date.
In the registration form you need to fulfill the required information and attach the article.

PAPER SUBMISSION

"HEMs-2026" is open to all individuals interested or involved in the development of new articles from high energy materials and chemical substances and their applications, biomedicine etc. For all topics, papers for oral presentation, discussion, and poster sessions are invited.

Keynote presentations will be given in plenary sessions and will last 30 minutes (including discussion time).

Oral presentations in technical sessions should not exceed 15 minutes.

Poster presentations should be sized 60 cm x 80 cm.

KEY DATES

Registration and admission of papers – until July 01, 2026.
Payment of the registration fee – until August 10, 2026.

CONTACT DETAILS

Dr. Marina Khmeleva
Tel. +7 913-861-22-45
Email: workshop.hems@gmail.com, khmelevamg@gmail.com

Template

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Axiology of neophrasems and phraseotransformations in lexicographic interpretation

Valery M. Mokienko[1], Tatiana G., Nikitina[2]

[1] Saint Petersburg State University, Saint Petersburg, Russian Federation
[2] Pskov State University, Pskov, Russian Federation
[1] avtor1@gmail.com
[2] avtor2@gmail.com

Abstract. 2500-3000 characters with spaces.
Keywords: word 1, word 2

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Introduction

The body of your paper begins here. It should be an explicit summary of your presentation that states the problem, the methods used, and the major results and conclusions. Download these directions as a MS Word document and use it as the template for your paper as it contains all necessary formats and styles. The content of the paper will be the basis for acceptance of the presentation for the conference.

Research methods

This section should include a concise description of the process by which you conducted your research.

Results

The results or outcomes of the work you have done.

Conclusion

Finally, your paper should close with a statement of the project’s implications and contributions to the field. It should convince readers that the project is interesting, valuable, and worth investigating further.

Figures and tables must be included in the main text and must be individually numbered and captioned. Illustrations should be sharp and clear. Place figures and tables centered. Captions should be placed below figures and above tables and typed in Times New Roman, pt 11, in italics, and centered. Leave one line before and after tables and figures (see examples below).

Table 1

Example of a table

Parameter	*Z*	Probability (1)	*Y*	Probability (2)
1	1,78	high	0,70	low
2	4,55	very low	1,54	low

Example of a figure

Fig. 1. – Title, Times New Roman, 11 Pt, Italic

References

1. Mamontov, A.S. (2019) Cultural linguistics in the aspect of teaching the Russian language as a means of intercultural communication. Review article. Rusistika – Russian Language Studies. 17 (2). pp. 143–156. (In Russian).

2. Ter-Minasova, S.G. (2000) Yazyk i mezhkul’turnaya kommunikatsiya [Language and intercultural communication]. Moscow: Slovo.

***Information about the authors*:**

Mokienko Valery M., Dr. Sci. (Philology), professor, Saint Petersburg State University (Saint Petersburg, Russian Federation). E-mail: avtor1@gmail.com

Nikitina Tatiana G., Dr. Sci. (Philology), professor, Pskov State University (Pskov, Russian Federation). E-mail: avtor2@gmail.com