



**XII Scientific and Engineering Conference (with International Participation)**  
**Supercritical Fluids: Fundamentals, Technologies and Innovations**  
**July 3-8, 2023**  
**City of Tver**

Web-site: <http://scftec.isc-ras.ru>

*Informational support is provided by the SCFT portal of the G.A. Krestov Institute of Solution Chemistry of the Russian Academy of Sciences (Ivanovo)*

## **FIRST CIRCULAR**

### **INVITATION**

*The Organizing Committee of the XII Scientific and Engineering Conference "Supercritical Fluids (SCF): Fundamentals, Technologies and Innovations" is happy to announce another conference of the SCF cycle and to invite members of the Russian SCF community to take part in it on July 3-8, 2023 in Tver. The scope of the XII Scientific and Engineering Conference "Supercritical Fluids: Fundamentals, Technologies and Innovations" includes the problems of processing of mineral and hydrocarbon raw materials and CO<sub>2</sub> and waste utilization.*

#### **ORGANIZERS:**

- Russian Academy of Sciences
- Ministry of Science and Higher Education of the Russian Federation
- Tver State Technical University
- Lomonosov Moscow State University
- G.A. Krestov Institute of Solution Chemistry of the Russian Academy of Sciences
- Institute of General and Inorganic Chemistry of the Russian Academy of Sciences
- Tver Regional Branch of the All-Russian Public Organization "Russian Union of Young Scientists"
- SHAG, ZAO
- Editorial board of the journal "Supercritical Fluids: Theory and Practice"

#### **CHAIRPERSON OF THE CONFERENCE:**

*S.N. Kalmykov, Full Member of the Russian Academy of Sciences, Vice-President of the Russian Academy of Sciences, Dean of the Faculty of Chemistry of Lomonosov Moscow State University (Moscow)*

#### **VICE-CHAIRPERSONS OF THE CONFERENCE:**

*M.G. Kiselev, Doctor of Chemical Sciences, Professor, Director of ISC RAS (Ivanovo)*

*M.G. Sulman, Doctor of Chemical Sciences, Tver State Technical University (Tver)*

#### **PROGRAM COMMITTEE**

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*K.G. Bogolitsyn, Professor, Doctor of Chemical Sciences, NArFU (Arkhangelsk)*

*A.A. Vostrikov, Professor, Doctor of Physical and Mathematical Sciences, Associate Member of the Russian Academy of Engineering, IT SB RAS (Novosibirsk)*

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*F.M. Gumerov, Professor, Doctor of Engineering Sciences, KNRTU (Kazan)*

*D.A. Zimnyakov, Professor, Doctor of Physical and Mathematical Sciences, State Technical University of Saratov (Saratov)*

*S.G. Zlotin, Associate Member of the Russian Academy of Sciences, ZIOC RAS (Moscow)*

*O.I. Koifman, Full Member of the Russian Academy of Sciences, Ivanovo University of Chemistry and Technology (Ivanovo)*

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*O.N. Martyanov, Professor, Doctor of Chemical Sciences, IC SB RAS (Novosibirsk)*

*V.G. Matveeva, Professor, Doctor of Chemical Sciences, TSTU (Tver)*

*N.V. Menshutina, Professor, Doctor of Chemical Sciences, Mendeleev University of Chemical Technology (Moscow)*

*B.F. Myasoedov, Full Member of the Russian Academy of Sciences, GEOKhI RAS (Moscow)*

*V.Ya. Panchenko, Full Member of the Russian Academy of Sciences, Federal Scientific Research Center "Crystallography and Photonics", RAS (Troitsk, Moscow)*

*O.P. Parenago, Professor, Doctor of Chemical Sciences, TIPS RAS (Moscow)*

*M. Poliakov, Professor, University of Nottingham (UK)*

*V.K. Popov, Doctor of Chemical Sciences, Federal Scientific Research Center "Crystallography and Photonics", RAS (Troitsk, Moscow)*

*M.Yu. Sinev, Doctor of Chemical Sciences, FRCCP RAS (Moscow)*

*I.A. Uspenskaya, Professor, Doctor of Chemical Sciences, MSU (Moscow)*

#### **ORGANIZING COMMITTEE**

*A.F. Ivannikov, TSTU (Tver)*

*V.V. Ryabova, ISC RAS (Ivanovo)*

*N.A. Kozhevnikova, SCF-TP (Moscow)*

*M.G. Tarasevich, SCHAG, ZAO (Moscow)*

#### **Secretariat:**

*O.O. Parenago, Candidate of Chemical Sciences, IGIC RAS (Moscow)*

## SCOPE OF THE CONFERENCE:

- ❑ Fundamentals of supercritical state of the substance; theory and modeling
- ❑ Physical methods of SCF research; analysis and diagnostics; methodological aspects
- ❑ Development of catalysts with compounds in SCF, catalysis, organic and inorganic synthesis
- ❑ SCF-based green chemistry processes, environmental protection and waste utilization
- ❑ Recovery of CO<sub>2</sub> and natural raw materials (mineral, hydrocarbon, and renewable types); power industry problems
- ❑ Technologies for SCF application:
  - Synthesis and modification of functional materials
  - Pharmacy, cosmetology, medicine
  - Food production processes and foodstuffs

## TYPES OF presentations:

- ❑ Plenary lectures (*up to 40 min long*)
- ❑ Presentations of guest lecturers (*up to 30 min long*)
- ❑ Oral presentations (*up to 20 min long*)
- ❑ Oral presentations of young scientists (*up to 10 min long*)
- ❑ Poster session

The conference will also include the III All-Russian Youth Scientific School "Environmentally Friendly Technologies of Waste Processing for Obtaining New Materials and Energy Carriers" and the XIV All-Russian School-Conference of Young Scientists "Supercritical Fluid Technologies for Solving Environmental Problems".

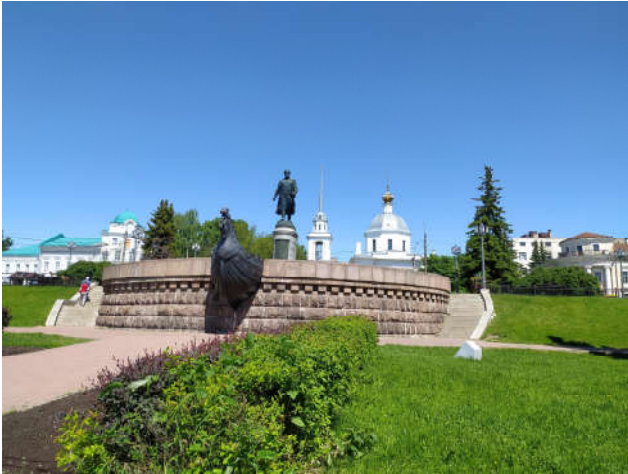
Official languages of the conference: Russian and English.

## PUBLICATION OF THE CONFERENCE PROCEEDINGS

The digital version of the conference proceedings will be available on the conference website before the opening of the conference.

## VENUE

Tver is quite rightly called one of the most ancient Russian cities. The fortress that appeared in the mouth of the Tvertsa River as early as the first third of the XII century was to become the predecessor of modern Tver. In 1246 Tver was made the capital of the Tver dukedom and by the late XIII - early XIV centuries it had turned into a large center of crafts and trade. The city growth reached its peak in the late XIX century, with factories and plants built all over the area. And in the early XX century Tver was already a city with a wide array of industrial enterprises. Today Tver is a large administrative, industrial and cultural center of the Upper Volga area, capital of the Tver region.



The conference will be held in the business-center Tver (Tver, Smolensky pereulok, 29) and in Tver State Technical University.

## ACCOMMODATION

Participants are responsible for booking hotel accommodation. The Organizing Committee recommends the participants to book rooms in the hotel "Panorama" (on the premises of the Tver business-center) and the Premier Hotel.

## REGISTRATION FEE

	Amount of the registration fee, including VAT 20%, rub.	
	on and before June 01, 2023	after June 01, 2023
Participants from research institutions and universities	12000	15000
Postgraduate students and students	7000	8 000
Representatives of industrial enterprises or other companies	20000	25000
Correspondence participants	1000	1000
Persons accompanying the participants	7000	8000

The registration fee covers the costs of the conference materials, rent of the premises and equipment, coffee breaks, welcome reception after the conference opening, 4 lunches and one excursion. (The registration fee for the persons accompanying the participants covers the costs of the welcome reception after the conference opening, 4 lunches and the excursion).

## APPLICATION FORM

Please, fill in the application form on the website: <http://scftec.isc-ras.ru>. Deadline for application: January 20, 2023.

## SUBMISSION OF MATERIALS

Abstracts shall be submitted **via participants' accounts on the conference website (preferably) or** via the e-mail [scftec2023@isc-ras.ru](mailto:scftec2023@isc-ras.ru) (please include information about the form of your participation: an oral presentation (20 min), a poster presentation or participation without a presentation).

One participant cannot submit more than two papers (but can be a co-author of other papers).

Abstract formatting guidelines: Pages maximum: 2 pages. Languages: Russian and English (in one file). Figure legends and references: A4 page size with 2.5 cm margins on all sides. File type: Ms Word for Windows. Font: 12 pt, Times New Roman. Spacing: 1.5. First state the title of your contribution (in CAPITAL LETTERS). Then type the author's name / authors' names with superscripts if the authors have different affiliations (in small letters). *Then type the authors' affiliations and e-mails (small letters, italic).* Underline the participants' surnames and initials.

The deadline for submitting the abstracts to the Organizing Committee is February 28, 2023.

*If you have any questions, please contact:*

*Olga Olegovna Parenago*

*Telephone/fax: (495) 956-13-09, E-mail: [oparenago@scf-tp.ru](mailto:oparenago@scf-tp.ru)*

*Address your questions about the agreement conclusion and registration fee payment to:*

*Natalia Anatolievna Kozhevnikova, E-mail: [info@scf-tp.ru](mailto:info@scf-tp.ru)*

*Address your questions about the conference website to:*

*Viktoria Valentinovna Ryabova, E-mail: [scftec2023@isc-ras.ru](mailto:scftec2023@isc-ras.ru)*