MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION

THE KOSYGIN STATE UNIVERSITY OF RUSSIA

United Nations
Educational, Scientific and
Cultural Organization

Организация
Объединенных Наций по
вопросам образования,
науки и культуры

Under the patronage of
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Под патронатом
ЮНЕСКО

INTERNATIONAL KOSYGIN FORUM

INTERNATIONAL SCIENTIFIC-TECHNICAL SYMPOSIUM (ISTS) THE SECOND INTERNATIONAL KOSYGIN READINGS "ENERGY AND RESOURCE-EFFICIENT ENVIRONMENTALLY SAFE TECHNOLOGIES AND EQUIPMENT" COINCIDED WITH THE 100TH ANNIVERSARY OF THE KOSYGIN STATE UNIVERSITY OF RUSSIA (ISTS «EESTE-2019»)

The symposium is held under the auspices of the world federation of engineering organizations (WFEO)
With the financial support of the Russian foundation for basic research - project № 19-08-20053/19

PLENARY SESSION PROGRAM

MOSCOW
29th OCTOBER – 1st NOVEMBER 2019

International scientific-technical symposium (ISTS)
The second international Kosygin readings
"Energy and resource-efficient environmentally safe technologies and equipment"
Coincided with the 100th anniversary of the Kosygin State University of Russia

Hold in the Kosygin State University of Russia in the framework of the International Kosygin Forum
29th October – 1st November 2019

Organizers of the Symposium

- Ministry of Science and Higher Education of the Russian Federation,
- Russian Academy of Sciences,
- the Kosygin State University of Russia,
- Russian Union of Scientific and Engineering Public Associations,
- Mendeleev Russian Chemical Society,
- Russian Academy of Engineering,
- Eurasian Information Analytical Consortium,
- the Committee of the RUSEA on the Problems of Energy Efficient Chemical Technologies,
- the Committee of the RUSEA on the problems of drying and thermo-moisture treatment of materials,
- Kurnakov Institute of General and Inorganic Chemistry of RAS,
- Lykov Institute of Heat and Mass Transfer of the National Academy of Sciences of Belarus,
- St. Petersburg State Institute of Technology (Technical University).

Russian and English is the official language.

Materials are published in the author's edition.

SCIENTIFIC AND TECHNICAL COMMITTEE
INTERNATIONAL SCIENTIFIC-TECHNICAL SYMPOSIUM (ISTS)
THE SECOND INTERNATIONAL KOSYGIN READINGS
"ENERGY AND RESOURCE-EFFICIENT ENVIRONMENTALLY SAFE TECHNOLOGIES AND EQUIPMENT"
COINCIDED WITH THE 100TH ANNIVERSARY OF THE KOSYGIN STATE UNIVERSITY OF RUSSIA

Committee chairman:

President of The Russian Union of scientific and engineering public associations (Russia), President of the Prokhorov Academy of engineering Sciences, Academician of RUS **Gulyaev Yuri Vasilievich**

Co-Chairs of the Committee:

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Professor **Belgorodsky Valery Savelevich;**
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corresponding member of RAS **Gusev Boris Vladimirovich;**
The Vice-President of RAS, member of Presidium of the RAS,
corresponding member of RAS, **Ivanov Vladimir Viktorovich;**
The Vice-President of the Mendeleev Russian chemical society, Professor
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Member of the Board of the Mendeleev Russian chemical society, the director of the International Institute of logistics resource conservation and technological innovation academician of RUS **Meshalkin Valery Pavlovich.**

Scientific Secretary of the Committee:

Professor of the Kosygin State University of Russia,
Kosheleva Mariya Konstantinovna
(tel. mob. +7-(926)-355-04-48, e-mail: oxtpaxt@ya.ru).

Information support of the Symposium on the websites

https://www.eeste.org, http://chemtech-committee.ru

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Turaev A.S. acad. Academy of Sciences of reb. Uzbekistan (Uzbekistan),
Volker Hessel, prof. (Netherlands),
Voshkin A.A. prof. (Russia).

PROGRAM SCHEDULE

29th October 2019

PLENARY SESSION OF THE SYMPOSIUM

Time:11.00-16.00. Entry into 9.00.

Coffee-break: 13.30-14.00

Auditorium of THE KOSYGIN STATE UNIVERSITY OF RUSSIA
(Malaya Kaluzhskaya st., 1, м. Shabolovskaya)

30th October 2019

PLENARY SESSION OF THE SYMPOSIUM

Time: 10.00 -18.00. Entry into 9.00.

Coffee-break: 12.00-12.30

Lunch: 14.00-15.00

Online hall of THE KOSYGIN STATE UNIVERSITY OF RUSSIA
(Malaya Kaluzhskaya st., 1, м. Shabolovskaya)

Buffet:18.00.
Payment at registration (until 12:00 p.m. 10.30.2019)

31st October 2019

PLENARY SESSION OF THE SYMPOSIUM

Time: 10.00-13.00. Entry into 9.00.

Lunch: 13.00-14.00.

Online hall of THE KOSYGIN STATE UNIVERSITY OF RUSSIA
(Malaya Kaluzhskaya st., 1, м. Shabolovskaya)

31st October 2019

POSTER SESSION

Time: 17.00 - 19.00

Online hall of THE KOSYGIN STATE UNIVERSITY OF RUSSIA
(Malaya Kaluzhskaya st., 1, м. Shabolovskaya)

31st October 2019 - 1st November 2019

JOINT MEETING OF SECTIONS

31st October 2019

Time: 14.00-17.00.

1st November 2019

Time: 10.00-14.00. Entry into 9.00.

Coffee-break: 12.00-12.30.

Online hall of THE KOSYGIN STATE UNIVERSITY OF RUSSIA
(Malaya Kaluzhskaya st., 1, м. Shabolovskaya)

1st November 2019

ADJOURNMENT OF THE SYMPOSIUM

Time: 14.00-15.00

Online hall of THE KOSYGIN STATE UNIVERSITY OF RUSSIA
(Malaya Kaluzhskaya st., 1, м. Shabolovskaya)

TIME LIMITATION

Plenary reports presentation time- up to 20 minutes.
Section reports presentation time- up to 10 minutes.
Speeches presentation time- up to 5 minutes.

THE OPENING OF THE SYMPOSIUM

V. S. Belgorodsky
Professor
Rector of the Kosygin State University of Russia
Moscow, Russia

Ivanov V.V.
Corresponding Member of RAS
Deputy President of the Russian Academy of Sciences. Moscow, Russia

RADIOPHYSICAL METHODS OF MEDICAL DIAGNOSIS

Yu. V. Gulyaev
Academician of RAS
Member of the Presidium of RAS
President of the Russian Union of scientific and engineering public associations (RUSEA)
President of the Prokhorov Academy of engineering Sciences
Moscow, Russia

THE MATHEMATICAL THEORY OF CORROSION OF CEMENT CONCRETE

B. V. Gusev
Corresponding member of RAS
President of the Russian Engineering Academy
Moscow, Russia

THE DIGITALIZATION AS AN INTELLECTUAL-TECHNICAL FACTOR OF ENERGY AND RESOURCE EFFICIENCY IMPROVEMENT OF PRODUCTION AND SUPPLY CHAIN OF A PETROCHEMICAL COMPLEX

V. P. Meshalkin
Academician of RAS
Member of the board of the Mendeleev Russian chemical society
Director of the international Institute of logistics, resource saving and technological innovation of Mendeleyev
University of Chemical Technology of Russia
Moscow, Russia

PROCESSES OF SEPARATION OF MIXTURES: PROBLEMS AND PROSPECTS

N.N. Kulov
Professor
Vice-President of the Mendeleev Russian chemical society
Moscow, Russia

MODERN TRENDS IN CREATION AND MAINTENANCE OF THE PROCESS OF EXPLOITATION OF ENERGY - SAVING EQUIPMENT IN THE CHEMICAL INDUSTRY

V. N. Blinichev
Member of the RAS scientific Council on theoretical foundations of chemical technology
Professor of Ivanovo State University of chemical technology
Ivanovo, Russia

HEAT AND MASS TRANSFER PROCESSES IN SYSTEMS OF PROTECTION OF THE TECHNOSPHERE: INDUSTRIAL, FIREPREVENTION AND ENVIRONMENTAL ASPECTS

S. V. Fedosov
Academician of RAACS
Advisor to the rector of Ivanovo State Polytechnic University
Ivanovo, Russia

MIXING OF SOLIDS: FROM SIMULATION TO NEW DESIGN OF MIXERS

Vadim Mizonov
Ivanovo State Power Engineering University
Professor
Ivanovo, Russia

Henri Berthiaux
Dr. Eng., professor
Centre RAPSODEE,
Ecole des Mines d'Albi-Carmaux
Albi, France

USING COMPUTER TECHNIQUES FOR FITTING SHOES WITHOUT TRYING THEM ON

Krzysztof Śmiechowski
Dr hab. inż., prof. nadzw. UTH Rad.
Uniwersytet Technologiczno-Humanistyczny im. Kazimierza Pułaskiego w Radomiu
Radom, Poland

PROCESS INTENSIFICATION IN CHEMICAL ENGINEERING: PULSATIONS, VORTICES AND FLOWS IN MICROCHANNELS

Abiyev R. Sh.
Professor
Head of the Department of St. Petersburg State Institute of Technology (Technical University)
Saint Petersburg, Russia

BEST AVAILABLE TECHNOLOGIES (BAT) AND NON-WASTE TECHNOLOGY: THE ILLUSION AND THE LAWS OF CHEMISTRY

V. V. Babkin
Professor
The President of the International Institute of problems on chemical modern economy
Moscow, Russia

GREEN TECHNOLOGY - THE BASIS OF SUSTAINABLE DEVELOPMENT OF CIVILIZATION IN THE 21ST CENTURY

G. E. Krichevsky
Professor of Nanotechnology society of Russia
Moscow, Russia

METHODS TO IMPROVE THE EFFICIENCY OF THE DRYING PROCESS OF LIQUID MATERIALS

P. V. Akulich
Professor
Chief researcher of Lykov Institute of heat and mass transfer of NAS of Belarus
Minsk, Republic Of Belarus

FIRE - AND HEAT-RESISTANT POLYMER COMPOSITES WITH NANOPARTICLES OF METAL COMPOUNDS

E. V. Yurtov
Corresponding member of RAS
Head of the Department of the Russian chemical technology University
Moscow, Russia

ACHIEVING THE SUSTAINABLE DEVELOPMENT GOALS BY COLLABORATIVE INNOVATION

Gong Ke
WFEO President Elect
China

Гонг Ке

Избранный Президент WFEO
Китай

ON THE 90th ANNIVERSARY OF THE ACADEMICIAN OF THE RAS A. M. KUTEPOV

V. N. Blinichev
Member of the RAS scientific Council on theoretical foundations of chemical technology
Professor of Ivanovo State University of chemical technology
Ivanovo, Russia

CHEMICAL ASPECT OF THE DEVELOPMENT OF METHODS OF TROTYL CONVERSION INTO GOODS OF DOUBLE MEANING

Kobrakov K.I., *Dr. Eng.,*
professor of the Kosygin State University of Russia
Moscow, Russia

MICRO- AND MILLIREACTORS – A PATHWAY TO PROCESS INTENSIFICATION (ОНЛАЙН ЗАЛ)

Tapio Salmi, Professor
Åbo Akademi University
Turku, Finland

INDUSTRIAL SUPERIOR GREEN TECHNOLOGIES FOR CONVERTING WASTES TO VALUABLES

Prof. Odilio Alves-Filho
PhD Department of Energy and Process Engineering Norwegian University of Science and Technology
Trondheim, NORWAY

MICROBIAL RESOURCE AND WATER TREATMENT: LACCASE POTENTIALS IN MITIGATING EMERGING WATER CONCERNS.

Uchechukwu U. Nwodo, Professor
University of Fort Hare
Alice, South Africa

ENGINEERING EDUCATION AND SUSTAINABILITY

Dr. Thomas Kiefer
Secretary General of the German Organization of Technical-Scientific Associations (DVT) and International Affairs Coordinator at VDI The Association of German Engineer Germany

FUTURE CHALLENGES OF THE ENGINEERING PROFESSION IN THE LIGHT OF THE UN SUSTAINABLE DEVELOPMENT GOALS

Dirk Bochar

Secretary General
European Federation of National Engineering Associations "FEANI"
Brussels, Belgium

EMERGING CHALLENGES IN THE AQUATIC MILIEU: INCREASING INCIDENCES OF ANTIBIOTIC RESISTANCE DETERMINANTS AND THE NEED FOR ALTERNATIVES TO HAZARDOUS CHEMICAL FLOCCULANTS

Anthony I. Okoh, Professor

University of Fort Hare
Alice, South Africa