

«A.B. Bekturov Institute of Chemical Sciences» JSC

International scientific and practical  
conference

«Modern problems of development of  
fundamental and applied chemistry and  
technology of low- and high-molecular  
compounds in solving industrial and  
environmental problems»,

dedicated to the 70th anniversary  
of the Academician

Jumadilov Talkybek Kozhataevich

May 26, 2022,  
Almaty, Kazakhstan



## Prof. JUMADILOV TALKYBEK -70<sup>TH</sup> ANNIVERSARY!

The conference is dedicated to the 70th anniversary of the Honored Kazakh scientist, academician, member of the American Chemical Society, Doctor of Chemical Sciences, Professor in the field of physical chemistry of polymers and sorption technology **Jumadilov Talkybek Kozhataevich**.

The scientific life of Talkybek Kozhataevich serves as an example of selfless service to domestic chemical science and training of highly qualified personnel. After graduating with a gold medal from boarding school No. 12 in Shymkent, he enters the chemical faculty of the Kazakh State University named after S.M. Kirov (Alma-Ata). Since the third year of the university, he begins to conduct his first scientific experiments on the synthesis and study of the kinetics of copolymerization of vinyl monomers during their radical polymerization under the guidance of Prof. Kurmanaliev O.Sh. At the age of 32, he defended his candidate of chemical sciences thesis, and at 43, his doctoral dissertation under the scientific supervision of Academician E.A. Bekturov.

He awarded a Soros Foundation grant for his publications in highly rated journals. For deep scientific research, he was awarded a state scholarship for outstanding scientists. Academician T.K. Jumadilov conducted a series of studies on the creation of ion-conducting molecular complexes in non-aqueous media, studied the hydrodynamic and conformational properties of amphoteric polyelectrolytes, rheological properties of high-viscosity oils of Kazakhstan in the presence of depressor additives. A considerable amount of work was devoted to the establishment of patterns of interaction of functional polymers with various classes of compounds.

The developments of the last years were aimed at developing highly selective polymer sorbents based on interpolymer systems and activated ionites on a fundamentally new scientific basis. To describe the equilibrium in interpolymer systems, researchers have created the «Jumadilov's effect» theory. The study of the «long-range effect» and the discovery of the phenomenon of abnormal activity of functional groups of polyelectrolytes during their remote interaction, according to foreign experts, represents a new trend of the XXI century in chemical science. The development of research in this field stimulates the emergence of new scientific directions and technologies with fundamentally original technical solutions.

Prof. Jumadilov Talkybek is the author of 2 scientific discoveries, over 500 scientific papers, 8 fundamental monographs, a Russian-Kazakh dictionary of chemical terms, 6 review articles, 4 innovative patents, 4 pre-patents for a utility model. Under his leadership, 15 candidate of chemical sciences theses were defended, and 3 Doctors of Philosophy (PhD) were prepared.

# DEAR COLLEAGUES!

The Organizing Committee of the International scientific and practical Conference «**Modern problems of development of fundamental and applied chemistry and technology of low- and high-molecular compounds in solving industrial and environmental problems**», dedicated to the 70th anniversary of Academician **Jumadilov T.K.** invites you and your colleagues to take part in this Conference and make a scientific contribution.

## CONFERENCE OBJECTIVE

Exchange of achievements of scientists in the field of organic, inorganic and polymer chemistry. Strengthening the relationship between science, education and industry in solving technological and environmental problems.

## CONFERENCE TOPICS

The program of the international scientific and practical conference covers the following areas:

**Section 1.** Modern trends in the development of organic, inorganic, polymer chemistry and chemical technology;

**Section 2.** Growing environmental problems in the modern world. Prospects and achievements of environmental science and technology development;

**Section 3.** «Green chemistry» and environmental safety.

The conference program will include plenary (by the invitation of the organizing committee) and oral reports.

The conference languages: Kazakh, English, and Russian.

Conference format: online/offline (Zoom platform)

We also inform you that until May 22, 2022, the Organizing Committee will be glad to receive congratulations to Prof. Jumadilov T.K. from fellow countrymen, colleagues and friends all around the world as video greetings (or letters) to e-mail: [lsfcp@mail.ru](mailto:lsfcp@mail.ru) and [ics\\_rk@mail.ru](mailto:ics_rk@mail.ru)

## KEY DATES

**May 22, 2022** – Deadline for report submission

**May 26, 2022** – Conference beginning day

# ORGANIZING COMMITTEE

## Co-Chairmen:

**Zhurinov M.Zh.** – Academician of NAS RK, Doctor of Chemical Sciences, Professor, President of NAS RK

**Tuimebayev Zh.K.** – Doctor of Philology, Professor, Rector of al-Farabi Kazakh National University

**Gabdullin M.T.** – Candidate of Physical and Mathematical Sciences, PhD, Rector of Kazakh-British Technical University

## Deputy Chairman:

**Fischer D.E.** – Candidate of Chemical Sciences, General Director of JSC "Institute of Chemical Sciences named after A.B. Bekturov" (ICS)

## The organizing committee:

**Tasibekov Kh.S.** – Candidate of Chemical Sciences, Associate Professor, Acting Vice-Rector for Scientific and Innovative Activities of al-Farabi Kazakh National University

**Praliev K.D.** – Academician of the National Academy of Sciences of the Republic of Kazakhstan, Doctor of Chemical Sciences, Professor, Head of the lab. chemistry of synthetic and natural medicinal substances, ICS

**Mansurov Z.A.** – Academician of International Academy of Higher School Sciences, Doctor of Chemical Sciences, Professor of al-Farabi Kazakh National University, Honorary Professor of Nanjing University of Science and Technology, Scientific director of the Institute of Combustion Problems

**Tazhbayev E.M.** – corresponding member of NAS RK, Doctor of Chemical Sciences, Professor, Vice-Rector of E.A. Buketov Karaganda State University

**Jusipbekov U.Zh.** – member-correspondent of NAS RK, Doctor of technical sciences, Professor, ICS

**Absametov M.K.** – Doctor. Geol.-Min. Sciences, Director of the Institute of Hydrogeology and Hydrophysics named after U.M. Akhmedsafin

**Batyrbekov E.G.** – Doctor of Physical and Mathematical Sciences, Professor, Academician of KazNAEN and NIA RK, General Director of the National Nuclear Center of the Republic of Kazakhstan

**Karakozov B.K.** – Candidate of Technical Sciences, General Director of the RSE "Institute of Nuclear Physics" of the Ministry of Energy of the Republic of Kazakhstan

**Burkeev M.Zh.** – corresponding member of NAS RK, Doctor of Chemical Sciences, Professor, Director of the Research Institute of Chemical Problems, Dean of the Faculty of Chemistry of the E.A. Buketov KarSU

**Kudaibergenov S.E.** – Doctor of Chemical Sciences, Professor, Director of the Institute of Polymer Materials and Technologies

**Mun G.A.** – Academician of NIA RK, Doctor of Chemical Sciences, Professor, Al-Farabi Kazakh National University

**Usmanov S.U.** – Doctor of Technical Sciences, Professor, Head of the Laboratory of Inorg. synthesis and Materials, ICS

**Chalov T.K.** - Doctor of Chemical Sciences, Professor, Head of the lab. ion exchange resins and membranes, ICS

**Kadirbekov K.A.** - Doctor of Chemical Sciences, Professor, Head of the lab. chemistry of petroleum and petrochemical synthesis, ICS

**Bektenov N.A.** - Doctor of Chemical Sciences, Professor, Chief Researcher, ICS

## Secretariat:

**Absadykov B.N.** - corresponding member of NAS RK, Doctor of Technical Sciences, Professor, Chief Scientific Secretary, ICS



## HONORARY COMMITTEE

**Prof. E.A. Bekturov** - Academician of NAS RK, Doctor of Chemical Sciences, Kazakhstan-Canada

**Prof. Marc J. Abadie** - Département Chimie des Matériaux, Nanostructures, Matériaux pour l'Energie, Montpellier, France

**Prof. Józef Tadeusz Haponiuk** - Chemical Faculty, Polymer Technology Department, Gdansk University of Technology, Gdansk, Poland

**Prof. Juozas Vidas Grazulevicius** - Department of Polymer Chemistry and Technology, Kaunas University of Technology, Kaunas, Lithuania

**Prof. Dr. Tomasz Sterzynski** - Institute of Materials Technology, Polymer Division, Poznan University of Technology, Poznan, Poland

**Prof. Michael Bratychak** - Academician of Ukrainian Oil and Gas Academy, D.Sc, Professor, Head of the Department of Petroleum and Gas Processing, Lviv Polytechnic National University, Lviv, Ukraine

**Prof. Witold Brostow** – Department of Material Science & Engineering, University of North Texas, USA

**Tamara Tatrishvili, PhD** - Faculty of Exact and Natural Sciences, Ivane Javakhishvili Tbilisi State University, Tbilisi, Georgia

**Floria Liu, MSc** - Managing Editor, Section Materials of Multidisciplinary Digital Publishing Institute (MDPI), Basel, Switzerland

**Prof. Lali Tabatadze** - Faculty of Natural Science, Mathematics, Technology and Pharmacy, Sokhumi State University, Tbilisi, Georgia

# INFORMATION FOR AUTHORS

## *Item 1.*

**Reports should be prepared according to the requirements:**

Times New Roman font. Interval 1. Margins: top – 2.0 cm, bottom - 2.0 cm, left – 2.0 cm, right – 2.0 cm. Paragraph – red line – 1 cm. Prohibition of automatic word wrapping.

**1st line: TITLE** – font size 12, all uppercase, bold, centered.

**2nd line:** blank line, font size 12

**3rd line:** Authors (Full name) – font size 12, lowercase, bold, centered.

**4th line:** *Country, city, organization* – font size 11, lowercase, italics, centered, e-mail.

**5th line:** blank line

**6th line:** Text, font size 12

**Item 2.** All participants with plenary and oral presentations must necessarily fill out an **APPLICATION for participation** in the international scientific and practical conference (**Appendix 1**). APPLICATIONS for participation must also be sent to the following email address: [lsfcp@mail.ru](mailto:lsfcp@mail.ru), copy to: [ics\\_rk@mail.ru](mailto:ics_rk@mail.ru)

Conference fee	
Delegates from CIS countries	0
Other countries	\$100

## CONTACTS

*106 Valikhanov str., Almaty, 050010*

*Tel. +7-727-291 24 64, +7-727-291 30 52*

*E-mail: [lsfcp@mail.ru](mailto:lsfcp@mail.ru), copy to [ics\\_rk@mail.ru](mailto:ics_rk@mail.ru)*