The name of the Adhering organization is the **Uzbek Mathematical Society.**

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2. Ravshan Ashurov, professor, vice chairman,

3. Abror Khudoyberdiyev, vice chairman,

4. ????????????????? scientific secretary.

Application for Uzbekistan to become a full member of the IMU

Introduction

Uzbekistan located in the central part of Central Asia. The capital is Tashkent. The state language is Uzbek. Uzbekistan is part of the Turkic languages world, as well as a member of the Turkic Council. The history of Uzbekistan dates back to the long history of Central Asia, and in the 19th century, in connection with the transition of all Central Asian countries to the Russian Empire, the territory of Uzbekistan also was transferred to the Russian Empire. In 1924, as a result of the redistribution of Central Asian region, the present Republic of Uzbekistan was established as a part of Soviet Union, and in 1991, the Republic of Uzbekistan was declared an independent Republic. Uzbekistan has more than 34 million population and currently, more than 600,000 youth study at the Higher education institutions.

The brief history of Uzbek Mathematics

Numerous scientists, including mathematicians, who made a worthy contribution to world science, grew up from ancient Central Asia, in particular from Uzbekistan. One such scientist is the great scholar, mathematician Muhammad ibn Musa al-Khwarizmi. From the title of his famous book "Al-Jabr wal Mukobala" came out the name "Algebra". He was born in Khorezm, one of the most ancient regions of Uzbekistan. In addition, scientists such as Al-Farghani, Mirzo Ulughbek, Jamshid al-Kashi lived and worked in the territory of Uzbekistan.

The development of modern mathematics in Uzbekistan is connected with the scientific activity of such scientists as V.I.Romanovsky (1979-1954), Tashmuhammad Qori Niyazi (1897-1970), T.A.Sarimsakov (1905-1995), S.X.Sirojdinov (1920-1987). Nowadays, many mathematicians, including 7 academicians, more than 100 full professors and more than 600 associate professors are engaged in scientific and pedagogical activities in Uzbekistan.

In recent years, a number of new universities and research institutes have been opened in Uzbekistan, and existing ones have been expanded. Currently,

there are 152 higher education institutions in Uzbekistan which are 30 universities, 45 institutes, 3 academies, 47 regional branches and 27 branches of foreign universities. Among them there is also a special research institute of the Academy of Sciences of the Republic of Uzbekistan named as V.I.Romanovskiy Institute of Mathematics, which has five regional branches in Namangan, Samarkand, Bukhara, Khorezm and Karakalpakstan.

The following universities are universities that have a Faculty of Mathematics or have scientists who are actively working in the field of mathematics:

- National University of Uzbekistan (Tashkent),
- Samarkand State University (Samarkand),
- Urgench State University (Urgench),
- Karakalpak State University (Nukus),
- Namangan State University (Namangan),
- Ferghana State University (Ferghana),
- Karshi State University (Karshi)
- Termez State University (Karshi)
- Turin Polytechnic University in Tashkent (Tashkent)
- Tashkent State pedagogical University (Tashkent),
- Tashkent University of Information technologies (Tashkent),
- Inha University in Tashkent (Tashkent),

Uzbek Mathematical Society

The Uzbek Mathematical Society was established in 1999 to promote the development of mathematical science, expand international relations and support young scientists in Uzbekistan. To this day, by members of the Uzbek Mathematical Society have carried out a number of scientific studies and developed many directions. Particularly, in Uzbekistan also have established such disciplines as probability theory and mathematical statistics, differential equations

and mathematical physics, mathematical and complex analysis, operator algebra, theory of non-associative algebras, dynamical systems and measurement theory.

Majority of members of the Uzbek Mathematical Society are involved in higher and special secondary educational system of Uzbekistan and their different kind of activities (teaching, creating teaching programs of different mathematical courses, supervising bachelor, master and PhD students) in Uzbek and foreign universities, can be counted as educational activities of the Uzbek Mathematical Society.

Society has members with highest educational and research background such academicians Djavad Hadjiev (known by Hadjiev-Grosshans theorem in invariants theory), Shavkat Alimov, Shakir Farmanov, Azimbay Sadullaev, Shavkat Ayupov, Abdulla Azamov, Saidakhmat Lakaev; professors Mirsaed Aripov, Nasir Ganikhodjaev, Vladimir Chilin, Aknazar Hasanov, Ravshan Ashurov, Olimjon Khalmukhamedov, Akhtam Dzhalilov, Utkir Rozikov, Bahrom Omirov, Farkhod Eshmatov, Olimjon Sharipov, Karimbergen Kudaybergenov, Erkinjon Karimov and many others.

Nowadays, the Society has more than 1000 members such as professors, scientists, PhD students, masters and bachelor students from the different regions of Uzbekistan.

There are also many professors from Uzbekistan in foreign universities, helping to develop international cooperation in the field of education and scientific research of the Society. In this manner we note

- Yusuf Hakimdjanov (Strasburg University, France),
- Zair Ibragimov (Fullerton University, USA),
- Sabir Umarov (New Haven University, USA),
- Isamiddin Rakhimov, Abdumalik Rakhimov (Malaysia),
- Farrukh Mukhamedov (UAE).

The following mathematical scientific journals actively working in Uzbekistan:

- Uzbek Mathematical Journal (Mathematics),

- Applied and Computational Mathematics (Applied and Engineering Mathematics),

- Reports of Uzbekistan Academy of Sciences (all branches of Science, including Mathematics),

- Bulletin of National University of Uzbekistan,

- Bulletin of Institute of Mathematics,

- Reports of Samarkand State University.

Moreover, members of the Society actively publishing scientific works in international prestigious journals or many of them are in Editorial boards and reviewers.

International relations.

Nowadays, members of the Uzbek Mathematical Society have a good cooperation with foreign countries and organizations, as well as academies. In particular, the Uzbek Mathematical Society is a member of the Turkic World Mathematical Society (TWMS). Moreover, members of the Uzbek Mathematical Society have good partnerships with The World Academy of Science (TWAS). Currently, Sh.A. Ayupov, U.A. Rozikov, B.A. Omirov and F.M. Mukhamedov are full members of TWAS, while young mathematicians K.K.Kudaybergenov, E.T. Karimov, A.Kh. Khudoyberdiyev and M.M.Rakhmatullaev were young affiliates of TWAS in different years.

In addition, the Uzbek Mathematical Society and California State University at Fullerton jointly conducted the annual USA-Uzbekistan Collaboration in Research, Education and Student Training for 2017-2020. Within the framework of this program, the USA-Uzbekistan Conference on Analysis and Mathematical Physics was twice held at the California State University, Fullerton (USA) on May 20-23, 2014 and at the Urgench State University (Uzbekistan) on August 8-12, 2017.

Works performed in cooperation with the International Mathematical Union.

Members of the Uzbek Mathematical Society regularly participate in IMU Congresses in recent years (Brazil 2018, Korea 2014, India 2010, Madrid 2006).

Members of the Uzbek Mathematical Society, together with the International Mathematical Union, held the following conferences and events.

- CIMPA Research School: Nonassociative algebras and applications, Uzbekistan, September 10-21, 2018
- CIMPA School "Complex Analysis, Geometry and Dynamics" & workshop "Trends in Complex Geometry" October 25 – November 6, 2021.

IMU-Simons Travel Fellowship Recipients

- Jobir Adashev from the Institute of Mathematics (Uzbekistan) has spent a research period at the University of Seville between November 15 and December 14, 2016. His collaborator was Prof. Luisa Maria Camacho.

- Bakhrom Omirov from National University of Uzbekistan has spent a research period at the University of Santiago de Compostela, Spain from of March 27, 2016 till May 6, 2016. His collaborator was Manuel Ladra.

- Bazar Babajanov from the Urgench State University in Uzbekistan has received a grant to visit Comenius University in Bratislava, Slovakia. There he worked between 15.09.2016 and 15.10.2016 with Prof. Jozef Masarik.

Abel Visiting Scholar Recipients

- Uygun Jamilov is a senior scientific researcher at the Institute of Mathematics (Uzbekistan) was hosted by professor Manuel Ladra at the University of Santiago de Compostela, Spain between February 1 - April 29, 2016.

- Abror Khudoyberdiyev is Professor at the National University of Uzbekistan. He was hosted by Professor Manuel Ladra of the University of Santiago de Compostela, Spain during the period 01.10.2018 - 30.10.2018.

Individual Travel Support Recipients 2019

- Alisher Yakhshimuratov is a professor at Urgench State University in Uzbekistan. He was hosted by Prof. Michal Feckan at the Comenius University in Bratislava, Slovakia during the period 01.05.2019-30.06.2019.

- Jamilov Uygun is a senior scientific researcher at the Institute of Mathematics (Uzbekistan) was hosted by Prof. Manuel Ladra Gonzales at the University of Santiago de Compostela, Spain during the period 15.11.2019-15.01.2020.

Since 2015, Head of the Department of "Exact Sciences" of the Khorezm Mamun Academy, Ph.D. Baltaeva Umida Ismoilovna is a representative of the Committee for Women in Mathematics (CWM) in Uzbekistan which is established by the International Association of Mathematicians (IMU), she is also a coordinator of the European Society of Women Mathematicians (EWM) and the Central Asian Society of Women Mathematicians (CAWMA). Under her leadership in collaboration with the Women's Mathematical Committee (CWM IMU) and the Mathematical Society of Uzbekistan (UMS), women mathematicians established the Central Asian Society of Women Mathematicians (SAWMA) in 2016 and 2018 in Kazakhstan and Uzbekistan respectively, and they have organized scientific conferences titled "Current Problems of Mathematics and Mechanics-CAWMA".

Nowadays, Uzbekistan government trying to increase financial support for science and education and motivating to build new and develop existing scientific and educational cooperation. In particular, many works are being carried out in Uzbekistan to develop science and mathematics education. For this purpose, the following decrees of the President of the Republic of Uzbekistan were adopted:

1. On measures to support the further development of mathematics education and science, as well as measures to radically improve the activities of the V.I.Romanovsky Institute of Mathematics of the Academy of Sciences of the Republic of Uzbekistan, 09.07.2019. No PD- 4387.

2. On measures to improve the quality of education and research in mathematics. 07.05.2020. No. PD-4708.

Based on these decrees, **Muhammad Al-Khwarezmi International Prize of the President of the Republic of Uzbekistan** was established (three directions, for each 50,000 USD).

Therefore, internationally recognized cooperation of Uzbek Mathematical Society will be helpful to make activities that are more effective, enlarge number of members, and increase its influence in development of scientific researches in Mathematics in Uzbekistan.