

*the future of science*



# 30 YEARS OF THE

INTERNATIONAL OLYMPIAD  
IN MATHEMATICS, PHYSICS, CHEMISTRY AND INFORMATICS

# TUYMADA

Yakutsk 2023



## CONTENTS

Dr. Aisen Nikolaev .....	2
Dr. Irina Lyubimova .....	3
Dr. Anatoliy Nikolaev .....	4
Dr. Vasily Klimov .....	5
Organizers .....	6
Participating Countries from 1994-2022 .....	8
Russian Regions Length of Participation .....	12
Tuymaada International Olympiad of Mathematics .....	14
Mathematics Jury .....	16
Mathematics Winners .....	17
Tuymaada International Olympiad of Physics .....	20
Physics Jury .....	22
Physics Winners .....	24
Tuymaada International Olympiad of Chemistry .....	26
Chemistry Jury .....	28
Chemistry Winners .....	30
Tuymaada International Olympiad of Informatics .....	32
Informatics Jury .....	34
Informatics Winners .....	36
Number of Tuymaada Participants .....	38



***The wondrous gifts of science  
Accompaniments of our lives!  
Burn bright without fading,  
Illuminating the path to knowledge!***

*Dear participants, dear friends!*

Congratulations on the 30th anniversary of the Mikhail Andreevich Alekseev International Tuymaada Olympiad for school students in mathematics, physics, chemistry and computer science!

In our country, the development of the Olympiad movement and the facilitation of conditions for personal creative growth receive top attention.

The provision of support for gifted youth is a national priority policy. The International Tuymaada Olympiad is one of the most important events that help to identify and support talented youth worldwide.

The International Tuymaada Olympiad every year bring together the most outstanding school students from Russia and other countries. The event embodies a strong knowledge of physics and mathematics in the school curriculum and the unique potential of science education in Yakutia. Honouring these achievements, since 2022, the International Tuymaada Olympiad bears the name of a highly respected teacher of the Republic of Sakha (Yakutia), the People's Teacher of the USSR Mikhail Andreevich Alekseev.

This year the International Tuymaada Olympiad coincide with the International Mathematical Olympiad (IMO).

There were many examples of the winners and prize-winners of the International Tuymaada Olympiad becoming the winners of the International Mathematical Olympiads.

The respected members of the methodological commission and the jury, scientists from leading Russian universities and scientific institutions of the Russian Federation, who are the true enthusiasts of the Olympiad, are the partners of the International Tuymaada Olympiad. Their contributions are invaluable for the development of young talents from different countries.

I wish all the participants of the Mikhail Andreevich Alekseev International Tuymaada Olympiad success, fair competition and friendly communication with your new friends!

***Dr. Aisen Nikolaev***

*Head of the Republic of Sakha (Yakutia)*





*Dear participants of the International Tuymaada Olympiad, members of the expert commissions and organizers of all years!*

Dear participants of the International Tuymaada Olympiad, members of the expert commissions and organizers of all years!

The 30th anniversary of the Mikhail Andreevich Alekseev International Tuymaada Olympiad for school students in mathematics, physics, chemistry and computer science coincides with the Year of the Teacher and Mentor in the Russian Federation! On behalf of the Ministry of Education and Science of the Republic of Sakha (Yakutia) and in celebration of the abovementioned events, I would like to thank our teachers, educators, coaches and mentors for their dedication to their work, having faith in their students, the desire to help young talents, an invaluable contribution to their development and great support for young people!

The Mikhail Andreevich Alekseev International Tuymaada Olympiad for school students becomes a good tradition that introduces the fundamental sciences to school

students whilst educating character, diligence, will and passion for success. We are proud of the honour of holding an Olympiad of such a level in our republic.

On the anniversary date, I would like to convey congratulations and gratitude to all the organizers of the International Tuymaada Olympiad, especially those who stood at the origins and as well as those who organized the participation of school students in different parts of the world. Your sleepless nights and great efforts have led to the success of the International Tuymaada Olympiad!

I wish that the bright success story and the good traditions of the International Tuymaada Olympiad will continue.

I wish you all good health, prosperity, and new professional victories!

***Dr. Irina Lyubimova***

*Minister of Education and Science of the Republic of Sakha (Yakutia)*



*Dear friends!*

On behalf of the North-Eastern Federal University, I congratulate you on the opening of the 30th International Olympiad "Tuymaada"!

More than 100 schoolchildren from various subjects of the Russian Federation, as well as from foreign countries, came to Yakutsk. I am sure that NEFU students, teachers and scientists will follow the Olympiad with great attention. This is a serious and exciting challenge that has a worthy history and a bright future. Back in 1994, at the initiative of the First President of the Republic of Sakha (Yakutia) Dr. Mikhail Nikolaev, the presidential subprogram "Gifted children" was adopted. Within the framework of this subprogram, in the same year, the International Olympiad "Tuymaada" in mathematics, physics, chemistry and informatics was held for the first time. Today, talented schoolchildren get acquainted with the achievements of algorithmic thought, and tomorrow they will discover new heights in programming.

For the successful work of the Olympiad, the employees of our university composed texts, selected tasks, developed author's tasks and were members of the jury.

Thanks to the systematic and persistent, and most importantly, the joint work of teachers, scientists and educators from different regions of the country, the Tuymaada Olympiad has reached the current high level of holding and is now one of the leading intellectual events held in the Far East. "Tuymaada" is not just a competition of the best minds, but a platform for self-knowledge, self-expression, self-development and the emergence of friendship between the participants.

You are the intellectual potential of our country. And we are proud that we had the honor to host the participants of the Olympiad. I am sure that each of you deserves to win! Therefore, no matter what results you show, the work you have done before this Olympiad already deserves the most sincere respect. I wish you to perform well at the competitions, demonstrate all your knowledge and represent your region from the best side.

Good luck, friends, bright victories and interesting meetings!

***Dr. Anatoliy Nikolaev***

*Rector of M. K. Ammosov North-Eastern  
Federal University*



*Dear participants, jury and organizers!*

With great pleasure, I congratulate you all on the 30th anniversary of the Mikhail Andreevich Alekseev International Tuymaada Olympiad in mathematics, physics, chemistry and computer science!

The International Tuymaada Olympiad is a feast of intellect contest and a unique opportunity to meet wonderful friends and like-minded international peers.

The founders of the International Tuymaada Olympiad conceived the event as an instrument of finding and supporting talented children, establishing friendships and partnerships, and integrating into the international educational space.

It can be confirmed now that their idea is a success.

Today we are holding the 30th Olympiad. Over the years, the International Tuymaada

Olympiad spawned the International Science Games twice and helped to host the Asian Physics Olympiad in 2017.

Thousands of school students from over 25 countries have attended our science events over the past 10 years.

We can proudly state that the International Tuymaada Olympiad is one of the hallmarks events of Yakutia!

I would like wholeheartedly wish every participant of the International Tuymaada Olympiad to reveal their gifts and talents.

May good luck accompany each of you!

***Dr. Vasiliy Klimov***

*Rector of the The Junior Academy of Sciences  
of the Republic of Sakha (Yakutia)*





## ORGANIZERS



The Ministry of Education and Science  
of the Republic of Sakha (Yakutia)



The Junior Academy of Sciences  
of the Republic of Sakha (Yakutia)



The North-Eastern Federal University  
in Yakutsk



The Trust Fund of Future Generations  
in the Republic of Sakha (Yakutia)



Donskoy Institute for the Development  
of Education and Advanced Training

# ORGANIZERS







## PARTICIPATING COUNTRIES FROM 1994-2022



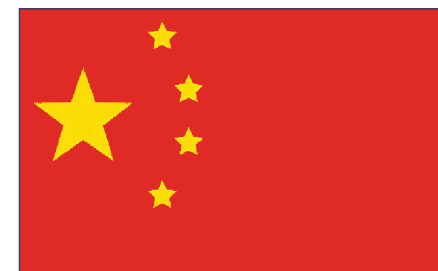
1. Russian Federation



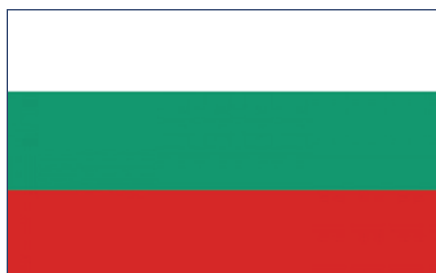
2. Romania



3. Republic of Kazakhstan



4. People's Republic  
of China



5. Republic of Bulgaria



6. Federal Republic  
of Germany



7. Mongolia



8. Republic of Indonesia



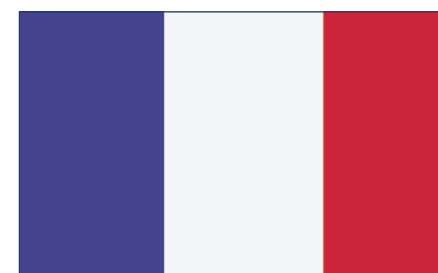
9. Ufuk Fund Team, Turkey



10. Republic of Korea



11. Republic of Azerbaijan



12. French Republic

## PARTICIPATING COUNTRIES FROM 1994-2022



13. Kingdom of Belgium



14. Alaska, U.S.A.



15. United Mexican States



16. Kyrgyz Republic



17. Republic of Singapore



18. Kingdom of Thailand



19. Islamic Republic of Iran



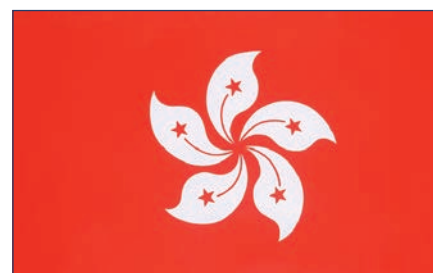
20. People's Republic  
of Bangladesh



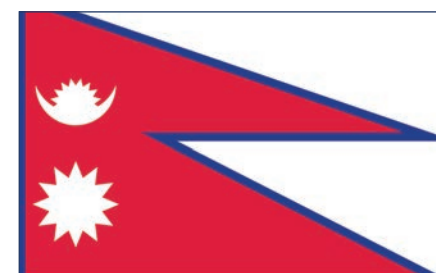
21. Republic of Belarus



22. Republic of Tajikistan



23. Hong Kong SAR, China



24. Federal Democratic  
Republic of Nepal





# THE FUTURE IN SCIENCE



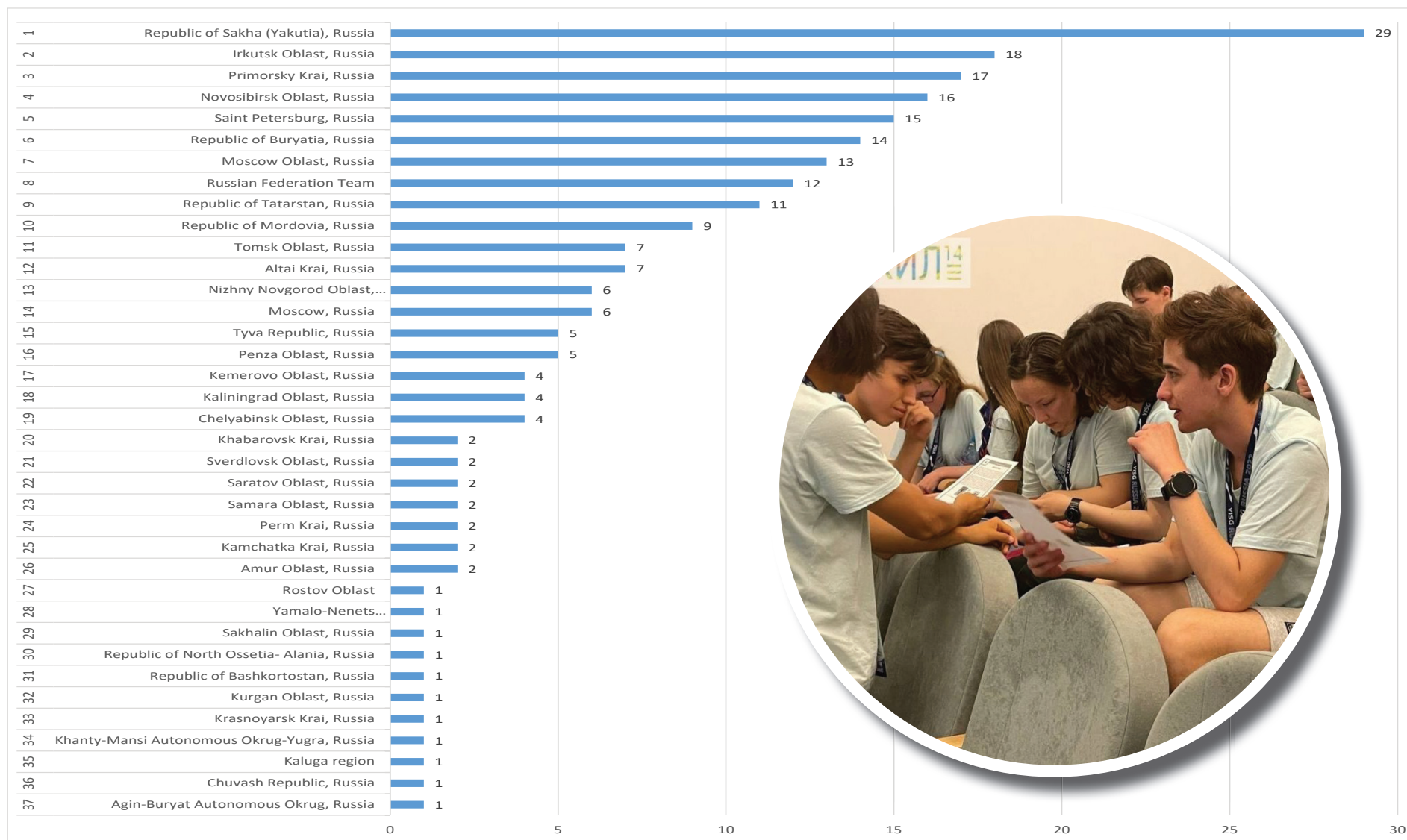


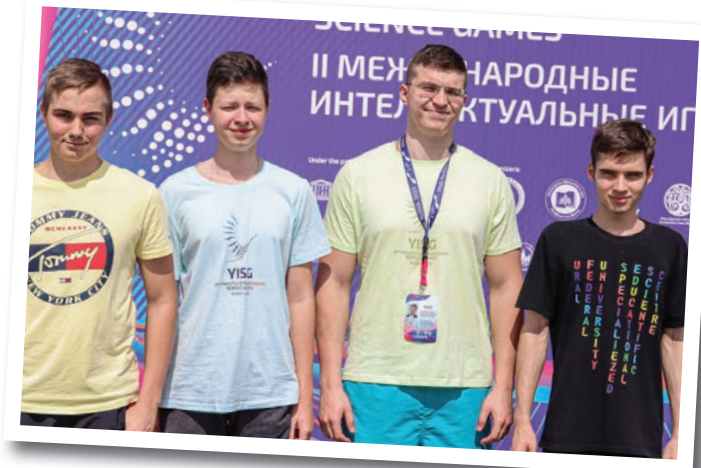






## RUSSIAN REGIONS LENGTH OF PARTICIPATION









*Dr. Evgeniy Sharin, Cand. Sc. in Physics and Mathematics, Mathematics Jury Chair*

The Tuymaada International Olympiad in Mathematics dates back to its very foundation, in 1994. We remember our teacher, who stood at the origin of the Olympiad: Ivan Grigoryevich Dmitriev - Ph.D., associate professor of the Faculty of Mathematics of YSU, chairman of the jury of the international Olympiad "Tuymaada" from its very foundation in 1994 to 2000.

The chairmen of the jury were Ivan Dmitriev (1994-2000), Sergey Popov (2001-2013), Evgeniy Sharin (2014-2015), Vasiliy Antipin (2016-2017). From 2018 to the present, the work of the jury is headed by Sharin E.F., assistant professor - acting. Head of the Department "Algebra, Geometry, Mathematical Analysis and Differential Equations" of the Institute of Mathematics and Informatics, Leading Researcher - Deputy Head of the Yakut Branch of the Regional Scientific and Educational Mathematical Center "Far Eastern Center for Mathematical Re-

search" of the North-Eastern Federal University named after M.K. Ammosov.

The jury annually involves not only university professors and leading school teachers preparing Olympiads, but also students, graduate students - prize-winners and winners of the Tuymaada International Olympiad of different years and other All-Russian and International school and student Olympiads.

Over the past 5 years, from among the young guys in the work of the methodological commission and the jury, Wu Ba Shang, a student of the IMI NEFU, a bronze medalist of the International Olympiad for schoolchildren, was involved; Izbekov Erchimen Dmitrievich - student, graduate student of the IMI NEFU, winner of the international Olympiad "Tuymaada" in 2007; Tarabukin Ivan Mikhailovich - student of IMI NEFU, undergraduate ANO Sirius, winner of the international Olympiad "Tuymaada" in 2015;



Andreev Maxim Vyacheslavovich - student of Moscow State University, winner of the international Olympiad "Tuymaada" 2016-2018, winner of the VOSh 2018; Vlasov Yan Andreevich, winner of 2022.

Our gratitude to the members of the methodological commission is immeasurable, which makes up complex non-standard, but at the same time very interesting and exciting tasks for the international Olympiad "Tuymaada". In recent years, Doctor of Physical and Mathematical Sciences, Professor, Professor of the Department of Algebra, Geometry, Mathematical Analysis and Differential Equations of the Institute of Mathematics and Informatics of the NEFU, Vice President of the Academy of Sciences of the RS (Y) Sergey Vyacheslavovich Popov has been the permanent chairman of the methodological commission. From 1998 to this day, the main compiler of problems has been Alexander Sergeevich Golovanov,

a teacher at the St. Petersburg Governor's Physics and Mathematics Lyceum No. 30, a member of the Central Subject-Methodological Commission and the jury of the All-Russian Olympiad for schoolchildren, a member of the jury of the International Olympiad for schoolchildren in mathematics. For the 11th time, PhD in Physics and Mathematics, Associate Professor of the Faculty of Mathematics and Mechanics of St. Petersburg State University, a member of the Central Subject and Methodological Commission and the jury of the All-Russian Olympiad for Schoolchildren, has helped in the preparation of problems and the work of the jury.

I am sure that the Tuymaada International Mathematics Olympiad gives an impetus to development, revealing talents and abilities, and opens prospects for the future for young people.



## MATHEMATICS JURY



1. Dr. Ivan Dmitriev, Cand. Sc. in Physics and Mathematics, Yakutsk (1994-2009)
2. Dr. Mikhail Semenov, Cand. Sc. in Physics and Mathematics, Yakutsk (1994-2001)
3. Dr. Ivan Egorov, Dr. Sc. in Physics and Mathematics, Yakutsk (1994-2002)
4. Valentina Kharitonova, Yakutsk (1994-2005)
5. Aleksandr Semyonov, Yakutsk (1994-1995, 1997)
6. Dr. Mark Grigoriev, Cand. Sc. in Physics and Mathematics, Yakutsk (1995)
7. Dr. Egor Sofronov, Cand. Sc. in Physics and Mathematics, Yakutsk (1996-2002)
8. Dr. Stepan Kaygorodov, Cand. Sc. in Physics and Mathematics, Yakutsk (1996)
9. Dr. Fyodor Ivanov, Cand. Sc. in Physics and Mathematics, Yakutsk (1996)
10. Dr. Sergey Popov, Dr. Sc. in Physics and Mathematics, member of Academy of Sciences of the Republic of Sakha (Yakutia), Yakutsk (1996, 1999-2022)
11. Dr. Vladimir Egorov, Cand. Sc. in Physics and Mathematics, Yakutsk (1997-2012)
12. Nuyrguyana Matveeva, Cand. Sc. in Physics and Mathematics, Yakutsk (1997, 1999-2002)
13. Dr. Daria Isangulova, Cand. Sc. in Physics and Mathematics, Novosibirsk (1997, 1999)
14. Dr. Igor Sharygin, Cand. Sc. in Physics and Mathematics, Moscow (1998)

15. Dr. Elley Shamaev, Cand. Sc. in Physics and Mathematics, Yakutsk (1998, 2000, 2002, 2005-2010, 2014)
16. Aleksandr Golovanov, Saint-Petersburg (1999-2022)
17. Aleksey Afanasiev, Yakutsk (1999-2000)
18. Svetlana Guseva, Saint-Petersburg (1999-2000)
19. Dr. Milana Fedotova, Cand. Sc. in Pedagogy, Yakutsk (2000-2002)
20. Dr. Nyurgun Lazarev, Dr. Sc. in Physics and Mathematics, Yakutsk (2000, 2002)
21. Luybov Dedyukina, Yakutsk (2000-2002)
22. Dr. Vladimir Nikolaev, Cand. Sc. in Physics and Mathematics, Yakutsk (2000, 2002)
23. Dr. Aleksey Kanel-Belov, Dr. Sc. in Physics and Mathematics, Moscow (2001)
24. Dmitry Rostovsky, Saint-Petersburg (2001-2010)
25. Dr. Aleksandr Khrabrov, Cand. Sc. in Physics and Mathematics, Saint-Petersburg (2002-2006)
26. Aleksey Pavlov, Yakutsk (2002)
27. Dr. Marina Baisheva, Cand. Sc. in Pedagogy, Yakutsk (2002-2003)
28. Anna Tikhonova, Yakutsk (2005-2011, 2015-2016)
29. Valeriy Malyshev, Yakutsk (2005, 2009, 2013)





30. Galina Tikhonova, Yakutsk (2005-2007)
31. Dr. Sargylana Potapova, Cand. Sc. in Physics and Mathematics, Yakutsk (2006-2007, 2009, 2012)
32. Nikita Kalinin, Saint-Petersburg (2007)
33. Ilya Kysylbaikov, Yakutsk (2008-2022)
34. Vladimir Frank, Saint-Petersburg (2008)
35. Marianna Russkykh, Saint-Petersburg (2008)
36. Ekaterina Golikova, Saint-Petersburg (2008)
37. Iosif Klimovitsky, Saint-Petersburg (2008)
38. Dr. Vasiliy Antipin, Cand. Sc. in Physics and Mathematics, Yakutsk (2008-2017)
39. Viktor Markov, Yakutsk (2008-2017)
40. Sergey Nikitin, Moscow (2009)
41. Aleksey Prokopiev, Yakutsk (2009-2010, 2012-2017)
42. Dr. Evgeny Sharin, Cand. Sc. in Physics and Mathematics, Yakutsk (2009-2015, 2018-2022)
43. Dr. Sergey Belov, Cand. Sc. in Physics and Mathematics, Saint-Petersburg (2010)
44. Dr. Nikolay Popov, Cand. Sc. in Physics and Mathematics, Yakutsk (2010-2013, 2017-2021)
45. Djulustan Nikiforov, Yakutsk (2010-2012)
46. Kirill Nikolaev, Yakutsk (2011)

47. Mikhail Ivanov, Saint-Petersburg (2011-2015)
48. Nikolay Nikolaev, Yakutsk (2011-2012, 2018-2021)
49. Nyurgun Sorov, Yakutsk (2011-2012)
50. Erchim Izbekov, Yakutsk (2011-2013, 2019-2022)
51. Dr. Konstantin Kokhas, Cand. Sc. in Physics and Mathematics, Saint-Petersburg (2012-2017)
52. Dr. Pavel Zatitsky, Cand. Sc. in Physics and Mathematics, Saint-Petersburg (2012)
53. Vasilisa Rudykh, Yakutsk (2016-2017)
54. Lev Emelyanov, Saint-Petersburg (2016)
55. Dr. Konstantin Kohas, Cand. Sc. in Physics and Mathematics, Saint Petersburg (2019-2022)
56. Nadegda Vlasieva, Saint-Petersburg (2019-2021)
57. Ivan Tarabukin, Yakutsk (2019-2021)
58. Vu Ba Shang, Yakutsk (2020)
59. Aleksandra Grigorieva, Yakutsk (2020)
60. Egor Fedotov, Yakutsk (2020-2022)
61. Semyon Verhovtsev, Yakutsk (2020-2022)
62. Maksim Andreev, Yakutsk (2021-2022)
63. Tiit Pavlov, Yakutsk, (2021-2022)
64. Konstantin Ivanov, Saint-Petersburg (2022)





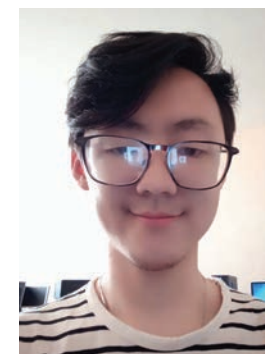
# MATHEMATICS WINNERS

	Senior League	Junior League
1994	Mihail Popa (Romania)	
1995	Stefan Niculescu (Romania)	
1996	Daria Ettyanova (Republic of Sakha (Yakutia), Russia)	
1997	Egor Timoshenko (Tomsk Oblast, Russia)	
1998	Valentin Tonita (Romania)	
1999	Dorian Dobrin (Romania)	
2000	Anna Tikhonova (Republic of Sakha (Yakutia), Russia) Ana Caraiani (Romania)	
2001	Viktor Markov (Republic of Sakha (Yakutia), Russia) Petrea CristianVirgil	Valery Malyshev (Republic of Sakha (Yakutia), Russia) Anna Tikhonova (Republic of Sakha (Yakutia), Russia) Artem Belokopytov (Leningrad Oblast, Russia)
2002	Relu-Adrian Iuga (Romania) Viktor Markov (Republic of Sakha (Yakutia), Russia) Artem Belokopytov (Leningrad Oblast, Russia)	Daniil Bulitkin (Leningrad Oblast, Russia) Galina Tikhonova (Republic of Sakha (Yakutia), Russia)
2003	Sergey Nikitin (Leningrad Oblast, Russia) Bozhidar Velichkov (Bulgaria)	Kirill Shmakov (Leningrad Oblast, Russia)
2004	Sergey Nikitin (Leningrad Oblast, Russia) Mihnea Dragos (Romania) Anna Tikhonova (Republic of Sakha (Yakutia), Russia)	Ramil Sakhipov (Leningrad Oblast, Russia)
2005	Renat Gimadeev (Republic of Tatarstan, Russia) Daniil Bulitkin (Leningrad Oblast, Russia)	Sergey Drozdov (Leningrad Oblast, Russia)
2006	Dmitry Baranov (Moscow Oblast, Russia) Mikhail Khristoforov (Leningrad Oblast, Russia) Livia Alexandra Ilie (Romania)	
2007	Aleksandr Logunov (Leningrad Oblast, Russia) Edgar Dobriban (Romania)	Vasily Spirin (Kazakhstan) Nazerke Bakhytzhan (Kazakhstan)
2008	Maria Atlasova (Republic of Sakha (Yakutia), Russia) Marianna Russkikh (Leningrad Oblast, Russia) Aleksandr Argunov (Republic of Sakha (Yakutia), Russia)	Iosif Klimovitsky (Leningrad Oblast, Russia) Marius Tiba (Romania)
2009	Radu Bumbăcea (Romania)	Alexandru Andrei Milu (Romania) Ștefan Adrian Ivanovici (Romania) Octav Ioan Drăgoi (Romania)
2010	Konstantin Tyshchuk (Leningrad Oblast, Russia) Dmitry Krachun (Leningrad Oblast, Russia)	Octav Ioan Drăgoi (Romania)
2011	Ekaterina Mukoseeva (Leningrad Oblast, Russia) Dan Danaïla (Romania)	Budimir Baev (Leningrad Oblast, Russia) Ekaterina Simarova (Leningrad Oblast, Russia)
2012	Abulay Zhinis (Kazakhstan) Daniyar Kulboldin (Kazakhstan) Florina Toma (Romania) Temirlan Seilov (Kazakhstan)	Konstantin Myagkov (Leningrad Oblast, Russia) Muzakhir Amanzholov (Kazakhstan) Daniyar Kamal (Kazakhstan)

# MATHEMATICS WINNERS



	Senior League	Junior League
<b>2013</b>	Nikita Chernega (Russian Federation Team) Aleksandr Zimin (Russian Federation Team) Aleksandr Golovanov (Republic of Tatarstan, Russia) Simona Diaconu (Romania) Paul-Gabriel Muscă (Romania)	Ioan-Laurentiu Ploscaru (Romania)
<b>2014</b>	Aleksandr Zimin (Russian Federation Team) Ekaterina Simarova (Leningrad Oblast, Russia) Aleksandr Tarasov (Leningrad Oblast, Russia)	Filip-Alexandru Ion (Romania)
<b>2015</b>	Aleksey Kulikov (Leningrad Oblast, Russia) Vadim Luchkin (Russian Federation Team)	Darina Merzakreeva (Republic of Tatarstan, Russia) Pavel Petrov (Republic of Bashkortostan, Russia) Ivan Tarabukin (Republic of Sakha (Yakutia), Russia)
<b>2016</b>	Aleksandr Tokmachev (Russian Federation Team) Sergey Dolgikh (Russian Federation Team)	Maksim Andreev (Republic of Sakha (Yakutia), Russia) Lenca-Iarina Cuturela (Romania) Alexandra Timofte (Romania)
<b>2017</b>	Maksim Andreev (Republic of Sakha (Yakutia), Russia) Matthew Fan Xin Yu (Singapore) Serikbolsyn Meiram (Kazakhstan)	Nathaniel Lukas Christianto (Indonesia)
<b>2018</b>	Maksim Andreev (Republic of Sakha (Yakutia), Russia) Orazalin Alibek (Kazakhstan)	Ho Li Xiong, Timothy (Indonesia) Tran Bach Nguyen (Romania)
<b>2019</b>	Joel Tan Junyao Coman Andrei (Romania)	Murzalayev Albek (Kazakhstan) Shevonne Chia (Singapore)
<b>2020</b>	Stanve Avrilium Widjaja (Indonesia) Assylbek Olzhabayev (Kazakhstan)	Ralina Yusupova (Republic of Tatarstan, Russia) Eldar Khisamutdinov (Russian Federation Team) Galiya Sharafetdinova (Republic of Tatarstan, Russia)
<b>2021</b>	Tamerlan Burambayev (Kazakhstan) Marlen Raushanov (Kazakhstan) Constantin Tudor Paisanu (Romania) Anca Mihaela Sfia (Romania)	Regina Sabiryanova (Russian Federation Team) Andrei Giovanni Chirita (Romania) Andrey Evstafiev (Russian Federation Team) Rail Yagafarov (Russian Federation Team)
<b>2022</b>	Burambayev Tamerlan (Kazakhstan) Artem Lepin (Russian Federation Team) Edward Torac – Toma (Romania) Aitore Badigul (Kazakhstan)	Vladimir Rogovskiy (Kazakhstan) Pavel Ciurea (Romania) Mahazhanov Olzhas (Kazakhstan) Raphael Teng Zhi Xiang (Singapore)



**Ivan Tarabukin**

- Sakha National Team participant in 2014-2017 (mathematics);
- 2015 winner, 2014, 2016, 2017 awardee;
- Jury member in 2019- 2022;
- Thanks to training camps and participation in the Tuymaada Olympiad I became the awardee of the final stage of All-Russian Olympiad in mathematics and received a grant from Russian Federation President.
- At the moment I am graduating from the Scientific Center for Information Technologies and Artificial Intelligence «SCIENTIFIC AND TECHNOLOGICAL UNIVERSITY «SIRIUS» and getting a master's degree in the direction 01.04.02 "Applied Mathematics and Informatics" profile "Mathematical Robotics and Artificial Intelligence". My master's work is IMPLEMENTATION OF THE "BALL AND BEAM" SYSTEM USING THE ROBOT IRB 1600.
- The Tuymaada Olympiad is a part of my life. Starting from the 8th grade every summer we solved various interesting problems, met and took competition with different teams. I'd like to say a big thank to the organizers for great job and responsibility and giving such a great opportunity to our children.





*Dr. Efim Neustroev, Cand. Sc. in Physics and Mathematics, Physics Jury Chair*

Physics Olympiad, within the framework of the Tuymaada International Olympiad, has been held since the very beginning of the Olympiad in 1994. Olympiad is held in two leagues - senior and junior. Olympiad includes two rounds - theoretical and experimental. Theoretical round contains five tasks, the experimental round contains two tasks. Students who completed fewer than 9 grades of a secondary educational institution take part in junior league. Students applied for this league can take part in the senior league. Complexity of senior league tasks correspond to the international physics olympiads. And the junior league corresponds to the final stage of the All-Russian Olympiad in physics. Over the years of the Olympiad, the strongest teams from many countries of the world such as Romania, Kazakhstan, Singapore, etc., as well as Russian regions - Moscow, the Novosibirsk Re-

gion, the Republic of Mordovia, Primorsky Territory, etc., have taken part in it. Several times they became winners and prize-winners of the Olympiad. Thanks to such teams with outstanding participants, the Olympiad received an international status. Thanks to the work of the methodological commission headed by Professor Grigoriev Yu.M. for the Olympiad, unique and original tasks are selected, developed by leading teachers of the Moscow Institute of Physics and Technology, Moscow State University and teachers of scientific and educational centers of Russia. In recent years, an active role in attracting leading developers has been played by Alexander Chudnovsky, a teacher at the MIPT School of Physics and Technology. Avanesyan R.E., Varlamov S.D., Vlasov A.I., Gudenko A.V., Zilberman A.R., Kozel S.M., Muravyov V.M., Ryndin M.G., Chudnovsky A.V. and others.



Physics Olympiad is based on jury's tradition, based on honesty, objectivity and impartiality. I would like to note the chairs of the jury of past years Syromyatnikov V.G. (1997-2002), Grigoryeva Yu.M. (2002-2009) and Sivtseva V.I. (2010-2015), who made a great contribution to this movement. High professionalism of the jury members of the older generation such as Solovyov T.N., Petrov Z.E., Potapov V.F., Gotovtsev R.M., Kolodeznikov A.P. continued by their students Nogovitsyn P.I., Grigoriev A.I., Sleptsov A.I., Dyakonov R.G. and others. It should also be noted the invited jury members of recent years Gudenko A.V. and Vlasov A.I. for their desire to help in work's objective assessment, invaluable

assistance in the jury's work and high professionalism.

For almost 30 years of history, many winners and prize-winners of the Tuymaada Olympiad in Physics, the teams of the Republic of Sakha (Yakutia) graduated from leading universities and become leading specialists in scientific, educational and design centers in Russia and abroad. At present, the winners of recent years Vasiliev A., Dmitriev N., Dyachkovsky M., Kulakovskiy A., Novikov S., Sanikov G., Unarov A. are studying in leading universities of the Russian Federation. I believe that our Republic of Sakha (Yakutia) is full of talents that will adequately represent our region at the Olympiad in the future.





## PHYSICS JURY

1. Dr. Kim Popov, Cand. Sc. in Chemistry, Yakutsk (1994-1995)
2. Dr. Valery Syromyatnikov, Professor. Dr.Sc. in Pedagogy, Yakutsk (1994-2001)
3. Dr. Nadezhda Savinova, Dr. Sc. in Physics and Mathematics, Yakutsk (1994-1995, 1997-2002, 2004-2010)
4. Natalia Solovieva, Yakutsk (1994-2008)
5. Dr. Zim Petrov, Dr. Sc. in Engineering, Yakutsk (1994-1997, 2000-2005)
6. Zoya Avksentieva, Yakutsk (1994, 1996-2002)
7. Dr. Konstantin Gerasimov, Cand. Sc. in Physics and Mathematics, Yakutsk (1994-1998)
8. Dr. Semyon Semyonov, Cand. Sc. in Physics and Mathematics, Yakutsk (1994-1997)
9. Albina Dmitrieva, Yakutsk (1994)
10. Dr. Stanislav Vinogradov, Cand. Sc. in Physics and Mathematics, Yakutsk (1994, 2009, 2012)
11. Dr. Ivan Muksunov, Cand. Sc. in Physics and Mathematics, Yakutsk (1995-2004)
12. Dr. Timofey Soloviev, Cand. Sc. in Physics and Mathematics, Yakutsk (1995-2002, 2004-2006, 2008-2011)
13. Dr. Aleksandr Alekseev, Cand. Sc. in Biology, Yakutsk (1995)
14. Rozalia Gerasimova, Yakutsk (1995)
15. Dr. Anatoly Koryakin, Cand.Sc. in Physics and Mathematics, Yakutsk (1995)
16. Marina Sivtseva, Yakutsk (1995, 2001)
17. Dr. Radion Bochkarev, Cand.Sc. in Physics and Mathematics, Yakutsk (1997)
18. Ivan Iogolevich, Chelyabinsk (1999)
19. Dmitry Aleksandrov, Moscow (2000, 2016)
20. Olga Andrianova, Yakutsk (2000-20001)
21. Nikolay Sobolev, Moscow (2000)
22. Dr. Andrey Zayakin, Cand.Sc. in Physics and Mathematics, Moscow (2000)
23. Dr. Andrey Zayakin, Cand.Sc. in Physics and Mathematics, Moscow (2000)
24. Vitaly Vavilov, Moscow (2001-2003)
25. Roman Alferov, Moscow (2001-2002)
26. Vladimir Shelest, Novosibirsk (2001)
27. Dr.Yury Grigoriev, Dr. Sc. in Physics and Mathematics, member of the Academy of Sciences of the Republic of Sakha (Yakutia), Yakutsk (2001-2022)
28. Dr. Vasily Sivtsev, Cand. Sc.in Physics and Mathematics, Yakutsk (2002, 2006-2015, 2018)
29. Dr. Vyacheslav Muraviev, Cand. Sc. in Physics and Mathematics, Moscow (2004-2006)
30. Aleksandr Mokhnachevsky, Yakutsk (2004-2010, 2015)
31. Dr. Aysen Tatarinov, PhD, Yakutsk (2004-2008)
32. Dr. Aleksey Gudenko, Cand. Sc.in Physics and Mathematics, Moscow (2005-2013, 2016-2022)
33. Dr. Olga Skryabina, Cand.Sc. in Physics and Mathematics, Yakutsk (2005-2008)
34. Dr. Efim Neustroev, Cand. Sc. in Physics and Mathematics, Yakutsk (2006 – 2022)
35. Mikhail Kharbanov, Yakutsk (2006-2008)
36. Aleksandr Chudnovsky, Moscow (2007-2008, 2012-2022)
37. Viktor Potapov, Yakutsk (2007-2022)



38. Dr. Stanislav Kozel, Professor, Dr. Sc. in Physics and Mathematics, Moscow (2008)
39. Maksim Ryndin, Moscow (2008-2010, 2012)
40. Dr. Valery Danilin, Cand.Sc. in Physics and Mathematics, Moscow (2008)
41. Elena Artemieva, Yakutsk (2009-2010)
42. Aleksandr Larionov, Yakutsk (2010-2012)
43. Aleksandr Kim, Yakutsk (2011-2012)
44. Nikolay Skryabin, Yakutsk (2011-2012)
45. Innokenty Sleptsov, Yakutsk (2011-2012)
46. Dr. Artur Fedorov, Cand.Sc. in Engineering (2012)
47. Aleksey Grigoriev, Yakutsk (2012-2013, 2017-2022)
48. Vasily Moekov, Yakutsk (2013)
49. Afanasy Sleptsov, Yakutsk (2013-2016)
50. Timur Grigoriev, Yakutsk (2013)
51. Evgeny Savinov, Moscow (2013)
52. Pyotr Nogovitsyn, Yakutsk (2013-2022)
53. Roman Gotovtsev, Yakutsk (2014-2022)
54. Veronika Koryakina, Yakutsk (2014-2015)
55. Vadim Yakovlev, Yakutsk (2014-2016)
56. Dr. Boris Yakovlev, Dr. Sc. in Physics and Mathematics, Yakutsk (2014)
57. Dr. Sergey Zhabin, Cand. Sc.in Physics and Mathematics, Moscow (2014)
58. Dr. Stanislav Alekseev, PhD, Yakutsk (2014-2019)
59. Mikhail Tsoi, Yakutsk (2015)
60. Ivanna Andreeva, Yakutsk (2016)
61. Radimir Dyakonov, Yakutsk (2016-2020, 2022)

62. Evgeny Boyakinov, Yakutsk (2017-2022)
63. Pavel Gerasimeko, Yakutsk (2017)
64. Aysen Ivanov, Yakutsk (2017, 2021-2022)
65. Dr. Anatoliy Vlasov, Cand. Sc.in Physics and Mathematics, Penza (2018-2022)
66. Viktoria Longinova, Yakutsk (2018)
67. Vitaly Shevchenko, Moscow (2018)
68. Aleksey Bychkov, Moscow (2018)
69. Igor Sivtsev, Yakutsk (2018-2022)
70. Dr. Afanasy Sleptsov, Cand. Sc. in Pedagogy, Yakutsk (2018)
71. Anatoly Kolodeznikov, Yakutsk (2021)
72. Stanislav Novikov, Yakutsk (2022)
73. Vladimir Tarabukin, Yakutsk (2022)







# PHYSICS WINNERS

	Senior League	Junior League
<b>1994</b>	Valentin Dinu (Romania)	
<b>1995</b>	Livio Bozgo (Romania) Mihai Vurdan (Romania)	
<b>1996</b>	Florin Bora (Romania)	
<b>1997</b>	Monica-Maria Gvica (Romania)	
<b>1998</b>	Chu Ming (China) Bogdan Marinoiu (Romania)	
<b>1999</b>	Mikhail Rotaev (Novosibirsk Oblast, Russia) Osip Schwartz (Novosibirsk Oblast, Russia) Ștefan Ichim (Romania)	
<b>2000</b>	Anton Akhmerov (Novosibirsk Oblast, Russia) Andrey Dozmorov (Irkutsk Oblast, Russia) Mugurel Andreica (Romania) Florin Gheciu (Romania)	Anfrey Druzhinin (Yamalo-Nenets Autonomous Okrug, Russia) Andrey Petrov (Irkutsk Oblast, Russia) Egor Tallaev (Republic of Sakha (Yakutia), Russia)
<b>2001</b>	Georgy Idrisov (Altai Krai, Russia)	Nikolay Egorov (Republic of Sakha (Yakutia), Russia) Aysen Tatarinov (Republic of Sakha (Yakutia), Russia)
<b>2002</b>	Aysen Tatarinov (Republic of Sakha (Yakutia), Russia)	Evgeny Shavlyugin (Primorsky Krai, Russia)
<b>2003</b>	Mihai Moldovan (Romania) Aysen Tatarinov (Republic of Sakha (Yakutia), Russia)	Ekaterina Flegontova (Republic of Sakha (Yakutia), Russia)
<b>2004</b>	Mikhail Kharbanov (Republic of Sakha (Yakutia), Russia)	Denis Kuzin (Republic of Sakha (Yakutia), Russia)
<b>2005</b>	Oleg Timofeev (Chuvash Republic, Russia) Pavel Gusikihin (Republic of Tatarstan, Russia)	Denis Smetnev (Nizhny Novgorod Oblast, Russia)
<b>2006</b>	Dmitry Fedyanin (Saratov Oblast, Russia)	Stanislav Semenov (Nizhny Novgorod Oblast, Russia) Zhandos Seksembayev (Kazakhstan)
<b>2007</b>	Vitaly Kuliev (Russian Federation Team) Mikhail Proskurin (Russian Federation Team) Denis Smetnev (Nizhny Novgorod Oblast, Russia)	Pavel Buslaev (Leningrad Oblast, Russia) Pyotr Tsoi (Republic of Sakha (Yakutia), Russia)
<b>2008</b>	Aleksandr Mikhailov (Russian Federation Team) Sergey Stepanov (Republic of Sakha (Yakutia), Russia)	Sofia Gudimenko (Primorsky Krai, Russia) Dmitry Kunyaev (Moscow Oblast, Russia)
<b>2009</b>	Aleksey Alyushin (Russian Federation Team) Andrey Korolkov (Russian Federation Team)	Tiron Tudor Giurgica (Romania) Djulus Ivanov (Republic of Sakha (Yakutia), Russia) Djulustan Nogovitsyn (Republic of Sakha (Yakutia), Russia)



	Senior League	Junior League
2010	Daniil Antonenko (Russian Federation Team)	Anton Degtyarenko (Primorsky Krai, Russia)
2011	Aleksey Noyan (Russian Federation Team) Fyodor Tsybrov (Russian Federation Team)	Anton Degtyarenko (Primorsky Krai, Russia) Artem Denisov (Primorsky Krai, Russia) Dan Cristian Andronic (Romania)
2012	Igor Slobodskov (Russian Federation Team) Anton Degtyarenko (Primorsky Krai, Russia) Ivan Maslov (Russian Federation Team)	Ioan Ignat (Romania)
2013	Vladimir Sitnov (Russian Federation Team) Ioan Ignat (Romania) Anton Degtyarenko (Primorsky Krai, Russia)	Ivan Uteshev (Republic of Mordovia, Russia) Viktor Tyasin (Republic of Mordovia, Russia)
2014	Aysien Ivanov (Republic of Sakha (Yakutia), Russia) Kirill Kazarnovsky (Russian Federation Team)	Kirill Shiyanov (Primorsky Krai, Russia)
2015	Maksim Eliseev (Republic of Mordovia, Russia) Ilya Zykov (Moscow Oblast, Russia)	Dmitry Sadykov (Republic of Tatarstan, Russia) Kirill Mironov (Moscow Oblast, Russia) Igor Sivtsev (Republic of Sakha (Yakutia), Russia) Shyngys Aitkazinov (Kazakhstan)
2016	Aleksey Luzhnov (Samara Oblast, Russia) Azamat Kaloev (Republic of North Ossetia-Alania, Russia)	Gaukhartas Alina (Kazakhstan) Andrei Nikolaev (Republic of Mordovia, Russia)
2017	Cosmin Andrei (Romania)	Diyar Tulenov (Kazakhstan)
2018	Ionel-Emilian Chiosa (Romania) Iosif Theodor (Romania)	Tudor Gabriel Mocioi (Romania) Islam Amangeldy Galymuly (Kazakhstan)
2019	Zaharachescu Mihail-Marian (Romania) Ghita Antonia-Alma (Romania) Burlacu Eduard-Florin (Romania)	Kaldybaev Rauan (Kazakhstan) Alexander Goo Zon Han (Singapore)
2021	Vladimir Lim (Kazakhstan) Ivan Pylytsyn (Novosibirsk, Russia)	Egor Potapov (Republic of Sakha (Yakutia), Russia)
2022	Nurtaev Dair (Kazakhstan) Minica Ioan Alexandru (Romania) Tumen Bazarov (Novosibirsk, Russia)	Razvan Chivu (Romania) Curea Alexandra Maria (Romania) Andreea Chivu (Romania)



**Radimir Dyakonov**

- Sakha National Team participant in 2012 (physics, bronze medal), 2014 (physics, bronze medal);
- Physics Jury member in 2016-2020, 2022;
- Postgraduate student of the Institute of Physics and Technology, NEFU;
- Currently, Leading Engineer of the Department of Theoretical Physics, Institute of Physics and Technology, NEFU;
- I participated in Physics Olympiads from the 8th grade, but it was the Tuymaada Olympiad that played a big role in starting the Olympiad activities. The Olympiad allowed me to determine my interests and go deeper into the study of theoretical physics. At the Olympiad, you meet people with common interests, meet new people, and spend the summer relaxing. I wish that the Tuymaada Olympiad develops further.





*Dr. Aleksandr Spiridonov, Cand. Sc. in Chemistry, Chemistry Jury Chair*

Successful professional activity in the field of chemistry begins at school. Subject Olympiads for schoolchildren are an important and integral part of Russian education. The Olympiad is a creative and most effective system for selecting gifted children and choosing their careers. The International Olympiad for Schoolchildren in Mathematics, Physics, Chemistry and Informatics "Tuymaada" has been held in the Republic of Sakha (Yakutia) for the thirtieth year. The Tuymaada Olympiad, like any other large-scale events related to the "struggle of minds" of young talents, includes not only the organization of the event, methodological support and development of tasks, but, above all, the identification, selection of gifted students, their participation in the event and their target training. In the Republic of Sakha (Yakutia), an invaluable contribution to the development of the Olympiad movement in chemistry was made by the chairmen of the jury and the methodological commission of different years, Dr. Sokolova Marina, Dr. Okhlopkova Aitalina, Dr. Egorova Ksenia.

Over the years, the jury of the Olympiad included Doctors of Sciences, teachers of NEFU Nikolay Egorov, Marina Andreeva, Lidia Ignatieva, Zinaida Ivanova, Boris Kershengolts, Victoria Mogileva, Vera Anshakova, Anastasia Sharina, Nyurguna Nogovitsina, Palmira Kolesova and many others. The tasks compiled by them were distinguished by a high scientific level and were proposed for solution in different years. The continuity of generations is important in the organization and development of school Olympiads.



One cannot but rejoice at the active involvement of former Olympiads, and now researchers and teachers Alexandra Khristoforova, Tatyana Struchkova, Anastasia Parnikova, Leonid Nikiforov, Tatyana Okhlopkova, Igor Ignatiev, Victoria Vereikina, Artur Okoneshnikov, Viktor Reshetnikov, Sergey Pavlov, Georgy Emelyanov, Suzanna Parfenova, Tatyana Stepnova, Sakhayana Danilova, Dolguyana Sidorova, Semyon Sivtsev, Marfa Markova, Alexey Golikov, Alexey Starostin, Dmitry Neustroev, Grigory Andreev, Khristina Sidorova, Denis Kravtsov, Valentin Atlasov and many others.

The organization of the Olympiad in Chemistry and the development of assignments also involves employees of other universities and research centers in Russia and abroad. Over the years, Olga Arkhangel'skaya, Igor Tyul'kov, Sergey Mozhaev, Roman Antipin, Alexander Mazhuga, Igor Trushkov from Moscow State University named after M.V. Lomonosov have



acted as coaches. Representatives of the Kazan and Siberian branches of the Russian Academy of Sciences Maxim Ilyin, Alexander Borodin, Bulat Kuramshin and others are also actively cooperating.

Chemistry is an experimental science, so not a single Chemistry Olympiad can do without a practical tour. NEFU laboratory assistants Rozalia Sidorova, Tatyana Afanasyeva, Alexandra Zakharova, Alena Filippova, Maria Vasilyeva and others are scrupulously involved in setting up and testing the experiment, thereby making a great contribution to the organization of the Olympiad.

Every year the level of tasks increases, and the innovative potential of the Olympiad movement is

growing. When preparing students for the Olympiads, methodological commissions use the most advanced educational technologies. This makes the Olympiad one of the most innovative educational events.

To date, more than 400 schoolchildren from more than 30 countries and regions of Russia have participated in the Tuymaada Chemistry Olympiad. For a number of years, representatives of Kazakhstan, Romania, Mongolia, Mexico and other countries have shown high results. Representatives from various regions of Russia successfully perform: Moscow, Tatarstan, Novosibirsk, Chelyabinsk, Amur, Irkutsk regions, Altai, Khabarovsk, Primorsky territories. The wide geography emphasizes the high status of the Olympiad in Chemistry "Tuymaada". In Romania and Kazakhstan, the status of the Olympiad has grown so much that the winners of our Olympiad are given the right to non-competitive admission to any university in the country. Therefore, competition in this regard is sometimes very fierce.

High-quality advance preparation from the school bench contributes students to get high results at the Olympiad. In conclusion, I would like to mention the chemistry teachers of the Republic of Sakha (Yakutia), who have been successfully preparing their students for the Olympiad for many years. Among them are Natalya Duraeva, Galina Krivoschapkina, Sofia Dichenko, Lucia Larionova, Zoya Nepomnyashchaya, Ekaterina Michurina, Lidia Shirokikh, Tatiana Zorina, Ekaterina Shirokikh and many other teachers whose contribution to the development of the Olympiad movement is also great.

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## CHEMISTRY JURY

1. Dr. Boris Kershengolts, Professor. Dr. Sc. in Biology, member of the Academy of Sciences of the Republic Sakha (Yakutia), Yakutsk (1994-2011)
2. Dr. Viktoria Mogileva, Cand.Sc. in Chemistry, Yakutsk (1994-2005)
3. Dr. Ksenia Egorova, Professor, Dr.Sc. in Pedagogy (1994-2005)
4. Dr. Nikolay Egorov, Cand.Sc. in Chemistry, Yakutsk, (1994-2002)
5. Dr. Lidia Ignatieva, Cand.Sc. in Chemistry, Yakutsk (1994-1995, 2006, 2012)
6. Anna Koryakina, Yakutsk (1994)
7. Dr. Vasilisa Nikolaeva, Cand.Sc. in Pedagogy, Yakutsk (1995)
8. Dr. Aytalina Okhlopko, Dr.Sc. in Engineering, Member of the Academy of Sciences of the Republic of Sakha (Yakutia), Yakutsk (1995-1998, 2006-2019, 2022)
9. Dr. Aytalina Okhlopko, Dr.Sc. in Engineering, Member of the Academy of Sciences of the Republic of Sakha (Yakutia), Yakutsk (1995-1998, 2006-2019, 2022)
10. Dr. Zinaida Ivanova. Cand.Sc. in Chemistry, Yakutsk (1995-1996, 2005, 2012-2016)
11. Dr. Marina Andreeva, Cand.Sc. in Pedagogy, Yakutsk (1995-1997, 2000-2003, 2005)
12. Dr. Maria Pavlova, Cand.Sc. in Pedagogy, Yakutsk (1996-2003)
13. Maria Makarova, Yakutsk (1996)
14. Sargylana Popova, Yakutsk (1996)
15. Dr. Lyudmila Kalacheva, Cand.Sc. in Chemistry, Yakutsk (1997)
16. Dr. Vladimir Sharoyko, Dr. Sc. in Biology, PhD, Yakutsk (1997-2001, 2013)
17. Anna Andreeva, Yakutsk (2000-2003)
18. Palmira Kolesova, Yakutsk (2000-2013)
19. Dr. Natalya Nakhova, Cand.Sc. in Pedagogy, Yakutsk (2000-2005)
20. Lyudmila Uarova, Yakutsk (2000-2001)
21. Dr. Aleksandr Kim, Cand. Sc. in Chemistry, Novosibirsk (2001)
22. Dr. Sergey Krupoder, Cand. Sc. in Chemistry, Novosibirsk (2002)
23. Nyurguna Nogovitsyna, Yakutsk (2002-2011)
24. Dr. Grigory Andreev, Cand.Sc. in Chemistry, Yakutsk (2002-2007, 2010)
25. Maria Gorokhova, Yakutsk (2002, 2005)
26. Andrey Petrov, Irkutsk (2003)
27. Sergey Mozharov, Moscow (2005)
28. Sergey Mozharov, Moscow (2005)
29. Dr. Igor Ignatiev, PhD, Yakutsk (2006)
30. Dr. Marina Sokolova, Dr.Sc. in Engineering, Yakutsk, (2006-2019, 2022)
31. Dr. Anastasia Sharina, Cand.Sc. in Chemistry, Yakutsk (2006-2011, 2013, 2015-2016)
32. Dr. Vera Anshakova, Dr.Sc. in Biology, Yakutsk (2006-2011)
33. Dr. Igor Trushkov. Dr.Sc. in Chemistry, Moscow (2006-2008)
34. Dmitry Neustroev, Yakutsk (2006)
35. Pavel Abdyushev, Novosibirsk (2006)
36. Albina Stepanova, Yakutsk (2006-2009, 2012-2013, 2015-2019)
37. Dr. Roman Antipin, Cand.Sc. in Chemistry, Moscow (2007-2010)
38. Dr. Aleksandr Mazhuga, Dr.Sc. in Chemistry, Moscow (2007-2010)
39. Vladimir Anshakov, Moscow (2008)



40. Tatiana Afanasieva, Yakutsk (2008-2010, 2012-2016)
41. Dr. Aleksandra Khristoforova, Cand.Sc. in Engineering, Yakutsk (2008)
42. Dr. Sergey Kisin, Dr.Sc. in Chemistry, Moscow (2008)
43. Dr. Evgenia Semenova, Cand.Sc. in Engineering, Yakutsk (2008)
44. Evdokia Amanatova, Yakutsk (2008)
45. Inna Denisova, Yakutsk (2008)
46. Dr. Maria Borisova, Cand.Sc. in Engineering, Yakutsk (2008)
47. Tatiana Zaitseva, Yakutsk (2008)
48. Dr. Aleksey Shpak, Cand. Sc. in Chemistry, Moscow (2008)
49. Dr. Tatiana Struchkova, Cand.Sc. in Engineering, Yakutsk (2009-2010, 2012-2013, 2018, 2019, 2022)
50. Rozalia Sidorova, Yakutsk (2010, 2012-2016, 2018)
51. Rimma Ivanova, Yakutsk (2010)
52. Tatiana Bochkareva, Yakutsk (2011)
53. Nadezhda Mikhailova, Yakutsk (2011)
54. Aleksandr Spiridonov, Yakutsk (2011-2019, 2022)
55. Dr. Leonid Nikiforov, Cand.Sc. in Engineering, Yakutsk (2011-2014, 2016-2019, 2022)
56. Vasily Mikhailov, Yakutsk (2012)
57. Aleksandra Zakharova, Yakutsk (2012-2014)
58. Fyodor Ivanov, Yakutsk (2012, 2014)
59. Egor Kapitonov, Yakutsk (2012)
60. Dr. Maksim Ilyin, Cand.Sc. in Chemistry, Novosibirsk (2013)
61. Artem Kuznetsov, Yakutsk (2014-2016)
62. Tatiana Okhlopkova, Yakutsk (2014-2016)
63. Dr. Andrey Fedorov, Cand.Sc. in Engineering, Yakutsk (2014)
64. Andrey Usherov, Magnitogorsk
65. Dr. Yuri Belousov, Cand. Sc. in Chemistry, Novosibirsk (2013)
66. Aleksey Golikov, Yakutsk (2014-2019, 2022)
67. Elza Sutakova, Yakutsk (2015)
68. Khristina Sidorova, Yakutsk (2015)
69. Georgy Emelianov, Yakutsk (2015-2018)
70. Maria Vasilieva, Yakutsk (2015, 2017)
71. Dr. Aleksandr Borodin, Cand.Sc. in Chemistry, Novosibirsk (2016)
72. Bulat Kuramshin, Kazan (2016-2019)
73. Denis Kravtsov, Yakutsk (2016)
74. Mikhail Makarov, Yakutsk (2016-2017)
75. Valentin Atlasov, Yakutsk (2017)
76. Dr. Anastasia Argunova, Cand.Sc. in Engineering, Yakutsk (2017, 2022)
77. Alyona Filippova, Yakutsk (2018, 2019, 2022)
78. Syuzanna Parfenova, Yakutsk (2018-2019)
79. Sergey Pavlov, Yakutsk (2019, 2022)
80. Viktor Reshetnikov, Yakutsk (2019)
81. Amir Gizatillin, Tatarstan (2019)
82. Nikolai Mesheryakov, Yakutsk (2019)
83. Valeria Pavlova, Yakutsk (2019, 2022)
84. Semyon Sivtsev, Yakutsk (2022)
85. Artur Okoneshnikov, Yakutsk (2022)
86. Aleksey Starostin, Yakutsk (2022)
87. Sakhaiaana Danilova. (2022)





## CHEMISTRY WINNERS

	Senior League	Junior League
1994	Sergey Osipov (Republic of Sakha (Yakutia), Russia)	
1995	Claudiu Giurumescu (Romania)	
1996	Tudor Tăma (Romania)	
1997	Simona Jelescu (Romania) Andrei Danut Maces (Romania)	
1998	Mircea Dunca Andrei Danut Maces (Romania) Andrei Danut Maces (Romania)	
1999	Kim Pentsak (Kemerovo Oblast, Russia) Cristian Jitianu (Romania) Ştefan Varga (Romania)	
2001	Anton Bykov (Republic of Sakha (Yakutia), Russia) Andrea Daniela (Romania) August Mitran (Romania) Serafim Popov (Republic of Sakha (Yakutia), Russia)	
2002	Aleksandr Belov (Sverdlovsk Oblast, Russia)	Anton Mizovtsev (Irkutsk Oblast, Russia)
2003	Dmitry Neustroev (Republic of Sakha (Yakutia), Russia) Remus Bogdan Cofil (Romania) Aleksandr Ryabchun (Altai Krai, Russia)	Marat Fazylbekov (Altai Krai, Russia)
2004	Marat Fazylbekov (Altai Krai, Russia)	
2005	Murat Shagirov (Kazakhstan) Dragos Deneanu (Romania) Oana Daniela Toader (Romania) Abulay Samatov (Kazakhstan)	
2006	Laura Ioanna (Romania) Dmitry Vinichenko (Altai Krai, Russia)	
2007	Artyom Kuznetsov (Republic of Sakha (Yakutia), Russia) Ioana Teodora Tofolean (Romania) Vladislav Sivtsev (Republic of Sakha (Yakutia), Russia) Maria Sinziana Muraru (Romania)	
2008	Artyom Kuznetsov (Republic of Sakha (Yakutia), Russia) Aigerim Shamshidin (Kazakhstan) Maria Sinziana Muraru (Romania) Mikhail Panov (Novosibirsk Oblast, Russia)	

# CHEMISTRY WINNERS



	Senior League	Junior League
<b>2009</b>	Daniyar Kaliev (Kazakhstan) Arkady Kupryakov (Republic of Sakha (Yakutia), Russia) Ioana Moga (Romania)	Daler Baydilov (Kazakhstan) Mikhail Makarov (Republic of Sakha (Yakutia), Russia)
<b>2010</b>	Yernur Tolep (Kazakhstan) Ruslan Yamaletdinov (Novosibirsk Oblast, Russia) Tuyara Aleksandrova (Republic of Sakha (Yakutia), Russia)	Mikhail Makarov (Republic of Sakha (Yakutia), Russia) Ivan Mazov (Kamchatka Krai, Russia)
<b>2011</b>	Murat Sultanov (Kazakhstan) Andrea Onofrei (Romania) Mikhail Makarov (Republic of Sakha (Yakutia), Russia)	Igor Valuev (Chelyabinsk Oblast, Russia)
<b>2012</b>	Bogdan Zagribelny (Kazakhstan) Igor Valuev (Chelyabinsk Oblast, Russia)	Vasily Bazhenov (Chelyabinsk Oblast, Russia) Georgy Emelianov (Republic of Sakha (Yakutia), Russia)
<b>2013</b>	Aleksey Sadykov (Republic of Tatarstan, Russia) Stefan Bogdan Ivan (Romania) Vlad-Mihai Mandric (Romania) Cristian David Calin (Romania)	Aleksey Korolev (Chelyabinsk Oblast, Russia) Maksim Yakovlev (Republic of Tatarstan, Russia)
<b>2014</b>	Robert Cristian Raclea (Romania) Andrei Iliescu (Romania)	Nursalim Akhmetzhanov (Kazakhstan) Ayat Tasanov (Kazakhstan)
<b>2015</b>	Robert-Cristian Raclea (Romania) Bulat Kuramshin (Republic of Tatarstan, Russia)	Bulat Murtazin (Republic of Tatarstan, Russia)
<b>2016</b>	Dmitry Sadykov (Republic of Tatarstan, Russia) Nikolay Mescheryakov (Moscow Oblast, Russia) Viktor Reshetnikov (Republic of Sakha (Yakutia), Russia)	Anastasia Adaikina (Republic of Mordovia, Russia) Temirlan Rakhimov (Kazakhstan) Rustam Asanov (Republic of Mordovia, Russia) Renata Galimova (Republic of Tatarstan, Russia)
<b>2017</b>	Chun Sungbae (Kazakhstan) Tudor-Cristian Cozma (Romania) Roman Aleshin (Republic of Tatarstan, Russia)	Robert Mustakimov (Republic of Tatarstan, Russia) Alyona Egorova (Republic of Tatarstan, Russia)
<b>2018</b>	Ionel-Emilian Chiosa (Romania) Iosif Theodor (Romania)	Tudor Gabriel Mocioi (Romania) Islam Amangeldy Galymuly (Kazakhstan)
<b>2019</b>	Stan Teodora (Romania) Sean Leong Kar Weng (Singapore)	Epifantsev Stepan (Russia)
<b>2022</b>	Chan Chee Yong Leemen (Singapore) Vlad Gabriel/Ristache (Romania)	Tokanov Shyngys Zhaksybekovich (Kazakhstan) Ainur Gilmanov (Russia)



**Artur Okoneshnikov**

- Sakha National Team participant in 2019 (chemistry, bronze medal);
- Chemistry Jury member in 2022;
- Currently, student of Moscow State University;
- The Olympiad significantly increases the interest of schoolchildren in natural science subjects.

Participation in the Olympiad gave me new acquaintances. I would like to wish the current participants not to be afraid to solve problems, make non-standard decisions, often such decisions are correct in Olympiad tasks.

I decided to connect my life with chemistry and now I am studying at Moscow State University. This is a very interesting and fascinating science, but it is also one of the exact sciences close to life, because if you understand chemical formulas, reactions, the use of chemistry in our daily life, you will comprehend how our life works.



*Dr. Natalya Nikolaeva, Cand. Sc. in Physics and Mathematics, Informatics Jury Chair*

The Tuymaada International Olympiad has played a pivotal role in the work of identification and development of talented schoolchildren in the Sakha Republic since its inaugural edition 30 years ago. Students of the schools of the Republic have repeatedly become diploma winners and prize-winners of the All-Russian Olympiad for Schoolchildren in Informatics: Alexey Ten (1996), Mikhail Antonov (1998), Kirill Petrov (2001, 2002), Petr Vysotsky (2006), Anton Minyuk (2007), Aital Dyakonov (2007, 2008 – diploma of the second degree), Nikolai Zakharov (2008), Alexander Struchkov (2008), Stepan Gavriliev (2009), Artem Vasiliev (2010).

The students of our Republic also successfully performed at the All-Russian Team Programming Olympiad. We can proudly list the results: three diplomas of the 2nd degree, six diplomas of the 3rd degree in Russia; and three diplomas of the 1st degree, one diploma of the 2nd degree and nine diplomas of the 3rd degree in the zone of Siberia and the Far East.

Students of the Republican Lyceum have also successfully performed at Kazakhstan's International Zhaitykov Olympiad: 2009 – diploma of the 3rd degree (Stepan Gavriliev), 2011 – diploma of the 3rd degree (Svyatoslav Awakumov), 2012 – diploma of the 3rd degree (Andrey Zamorshchikov), 2015 – diploma of the 2nd degree (Alexey Khokholov), 2017 – diploma of the 3rd degree (Semyon Mekumyanov), 2021 – diploma of the 3rd degree (Nikita Semenov, Timur Zykov), 2022 – diploma of the 3d degree (Vasiliy Parnikov), 2023 – diploma of the 3rd degree (Arsen Shumilov).

Most of the participants have gone on to become students of leading universities in Russia, and after graduation, post-graduate students and specialists in the field of information technology. Several participants of the Olympiad became candidates of physical and mathematical sciences (Alexander Pavlov, Maria Alekseeva (Uvarovskaya), Mikhail Pavlov, Mikhail Antonov, Petr Zakharov).





North-Eastern Federal University staff Yu. S. Antonov, N. V. Nikolaeva, N. N. Pavlov, software developer A. V. Pavlov, teacher of mathematics and robotics of the Republican Lyceum T. G. Protodyakonova, Associate Professor of the Demidov Yaroslavl State University S. G. Volchenkov have all worked as members of the Olympiad's Jury for more than 20 years. Sergey Gennadievich has provided invaluable practical and methodological assistance in the development of competitive programming in the republic. In the early years, he came not only to the Olympiad, but also to training camps for school children, conducted advanced training courses for the leading teachers of the republic in computer science and university professors.

Highly qualified specialists in the field of competitive programming, invited to the training camps (TC) and as members of the jury, have provided an invaluable practical contribution: in 1996 – A. A. Sukhanov (TC, jury member), in 1999 – I. N. Zaidelman (TC, jury member), in 2011–2013, 2015 – A. S. Zhuplev (jury member), 2012–2014,

2016–2018 – K. B. Chikhachev (in 2012 – TC, jury member).

The team of jury and problem authors was enriched with the expertise of the NEFU instructors V. S. Leveryev, V. V. Everstov, D. V. Nikiforov. Over the years, former participants of the Olympiads, students and IT professionals served and continue to serve as members of the jury and teachers of the TCS: V. V. Ivanov, A. V. Dyakonov, A. T. Vasiliev, A. A. Fedorov, A. Yu. Khokholov, G. A. Spirov, Alexandru Petrescu, G. E. Petrov, V. A. Bulatov, V. V. Gavriliev, S. L. Mekumyanov, and others.

The Tuymaada International Olympiad remains one of the leading intellectual competitions in the art of programming in its classical sense, it maintains the traditions of this remarkable field of theoretical computer science. This field is of utmost importance in the 21st century, and it is necessary to make every effort to ensure that our Republic takes its rightful place among the world's computer competitions for young programmers.



## INFORMATICS JURY

1. Dr. Nikifor Pavlov, Cand.Sc. in Physics and Mathematics, Yakutsk (1994-2019, 2021-2022)
2. Dr. Yury Antonov, Cand.Sc. in Physics and Mathematics, Yakutsk (1994-2012, 2014-2015, 2018-2019, 2021-2022)
3. Sergey Fedotov, Yakutsk (1994, 1996)
4. Sardaana Dolgunova, Yakutsk (1994)
5. Ivan Prokhorov, Yakutsk (1994)
6. Zinaida Pavlova, Yakutsk (1994)
7. Dr. Vasily Maksimov, Cand.Sc. in Physics and Mathematics, Yakutsk (1994)
8. Raisa Mamaeva, Yakutsk (1995-2007)
9. Dr. Tatiana Protodyakonova, Cand.Sc. in Physics and Mathematics, Yakutsk (1995-2015)
10. Dr. Natalya Nikolaeva, Cand.Sc. in Physics and Mathematics, Yakutsk (1995-1998, 2000-2003, 2005, 2007-2019, 2021-2022)
11. Dr. Anastasia Egorova, Cand.Sc. in Physics and Mathematics, Yakutsk (1996)
12. Nikolay Fedyakin, Yakutsk (1996)
13. Anton Sukhanov, Saint Petersburg (1997)
14. Dr. Sergey Volchenkov, Cand.Sc. in Engineering, Yaroslavl (1998-2011, 2013-2019, 2021-2022)
15. Dr. Aleksandr Pavlov, Cand.Sc. in Physics and Mathematics, Yakutsk (1998-2002, 2006-2012, 2014-2019, 2021-2022)
16. Yakov Zaydelman, Pereslavl-Zalessky (1999)
17. Dr. Mikhail Antonov, Cand.Sc. in Physics and Mathematics, Yakutsk (2001-2003)
18. Dr. Igor Ivankiv, Cand.Sc. in Physics and Mathematics, Yakutsk (2005)
19. Kirill Petrov, Yakutsk (2006)
20. Dr. Petr Zakharov, Cand.Sc. in Physics and Mathematics, Yakutsk (2006)
21. Olga Volchenkova, Yaroslavl (2008)
22. Aleksandr Krivogornitsyn, Yakutsk (2010)
23. Stepan Gavriliev, Yakutsk (2010-2011)
24. Aytal Dyakonov, Yakutsk (2010-2011, 2013, 2015-2019)
25. Vladimir Leveriev, Yakutsk (2011-2019)
26. Archylan Fedorov, Yakutsk (2011-2012, 2014-2017)
27. Anton Zhuplev, Vladivostok (2011-2015)
28. Artyom Vasiliev, Yakutsk (2011-2013, 2018, 2019, 2021)
29. Kirill Chikhachev, Saint-Petersburg (2012-2014, 2016-2018)
30. Vladimir Everstov, Yakutsk (2013, 2015-2019, 2021, 2022)
31. Vitaly Ivanov, Yakutsk (2014, 2021-2022)
32. Grigory Spirov, Yakutsk (2014, 2017, 2018)
33. Aleksey Khokholov, Yakutsk (2016-2017, 2019)
34. Georgy Petrov, Yakutsk (2016-2017)
35. Dmitry Artamonov, Yakutsk (2018)
36. Petresku Alexandr, Romania (2019, 2021)
37. Vasiliy Bulatov, Russia (2021-2022)
38. Valeriy Gavriliev, Russia (2021)
39. Vladimir Leveriev, Russia (2021-2022)
40. Semyon Mekumyanov, Russia (2021-2022)
41. Djulustan Nikiforov, Russia (2021-2022)
42. Timur Zykov, Russia (2022)
43. Vladislav Obudov, Russia (2022)
44. Nikita Semenov, Russia (2022)









# INFORMATICS WINNERS

	Senior League
<b>1994</b>	Cristian Tapus (Romania)
<b>1995</b>	Daniil Tutubalin (Tomsk Oblast, Russia)
<b>1996</b>	Zsolt Hus (Romania)
<b>1997</b>	Mihai Stroe (Romania) Aleksy Kudinov (Tomsk Oblast, Russia) Cristian Cadar (Romania)
<b>1998</b>	Mihai Pătrașcu (Romania)
<b>1999</b>	Ștefan Radu (Romania)
<b>2000</b>	Mugurel Ionut Andreica (Romania)
<b>2001</b>	Berinde Radu (Romania)
<b>2002</b>	Dan-Leonard Crestez (Romania) Kirill Petrov (Republic of Sakha (Yakutia), Russia)
<b>2003</b>	Dan-Konstantin Spătărel (Romania) Mara-Sonin Stanca (Romania) Stanislav Mikhailov (Republic of Sakha (Yakutia), Russia) Denis Golinka (Republic of Sakha (Yakutia), Russia)
<b>2004</b>	Daniel Vasile Pasaila (Romania)
<b>2005</b>	Igor Tufanov (Primorsky Krai, Russia) Filip Buruiana (Romania) Maksim Gladchenko (Kazakhstan)
<b>2006</b>	Alexandru Ciprian Simion (Romania) Victor Rusu (Romania) Gleb Grenkin (Primorsky Krai, Russia)
<b>2007</b>	Aleksandr Krivogornitsyn (Republic of Sakha (Yakutia), Russia)

	Senior League
<b>2008</b>	Aytal Dyakonov (Republic of Sakha (Yakutia), Russia) Victor Cristian Iontscu (Romania)
<b>2009</b>	Ilya Irkhin (Primorsky Krai, Russia) Andrei Purice (Romania) Teodor Anton Pripoi (Romania) Stepan Gavriliev (Republic of Sakha (Yakutia), Russia)
<b>2010</b>	Artyom Vasiliev (Republic of Sakha (Yakutia), Russia) Elena Podgornova (Irkutsk Oblast, Russia) Radu Ștefan Voroneanu (Romania) Cesar Mocan (Romania)
<b>2011</b>	Cosmin Andrei Carabet (Romania) Eugenie Daniel Posdărăscu (Romania)
<b>2012</b>	Rareș Darius Buhai (Romania) Ilya Zban (Primorsky Krai, Russia) Mihai Cheorghe (Romania)
<b>2013</b>	Rareș Darius Buhai (Romania) Marius Gavrilescu (Romania) Valentin Marius Harsan (Romania)
<b>2014</b>	Marian Darius (Romania) Paul-Andrei Gramatovici (Romania) Teodor-Stelian Ionescu (Romania)
<b>2015</b>	Costin Andrei Oncescu (Romania) Marian Darius (Romania) Aleksy Khokholov (Republic of Sakha (Yakutia), Russia)
<b>2016</b>	Costin-Andrei Oncescu (Romania) Askhat Zhalgasov (Kazakhstan)



	Senior League
2017	Bogdan Sitaru (Romania)
	Ștefan Constantin-Buliga (Romania)
2018	Robert-Adrian Popovici (Romania)
	Tiberiu Ioan Mușat (Romania)
	Adrian Emanuel Dicu (Romania)
2019	Tinca Matei (Romania)
	Mușat Tiberiu-Ioan (Romania)
	Wong Swee Chong Dave (Singapore)
2021	Ilie Daniel Apostol (Romania)
	Taimas Korganbayev (Kazakhstan)
	Altair Ashurov (Kazakhstan)
2022	Artem Kutuzov (Russia)
	Alexander Reznichenko (Russia)
	Yu Zheyuan (Singapore)



Petrov Kirill

*Education - Yakut State University, 2008*

#### What are you doing during this period of time?

I dreamed of making complex things simple. To do what no one has done before me and considered impossible. IT gives us such an opportunity. Everything useful that we do scales immediately to millions of people. I love my job, I consider myself a happy person.

In my free time, I like to go to the mountains. Now I live in a city where the mountains are a 20-minute drive from my house. I work remotely, I make tools and services for other developers.

#### What are your most vivid memories of the Olympics?

I remember the preparation process. Solving and analyzing problems every day. Then it seemed that holidays and childhood pass me by. Now I understand that that work laid the foundation for me, from which I can now take off wherever I want.

#### Has "Tuymaada" influenced your life? If yes, how?

Most of all I value acquaintances. I continue to cross paths with Olympiads so far.

Your wishes and suggestions "Tuymaada"?

I wish "Tuymaada" as many talented children as possible, and that they later reveal their capabilities and change the world for the better



# NUMBER OF TUYMAADA PARTICIPANTS

Official Names	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Agin-Buryat Autonomous Okrug, Russia					1																									1
Altai Krai, Russia						8		3	1	3	2		3	4																24
Amur Oblast, Russia																	10			1										11
Chelyabinsk Oblast, Russia															3			3	5	8										19
Chuvash Republic, Russia												1																		1
Irkutsk Oblast, Russia		9				11	8	5	16	14	13	10	7	7	10	6	5	5	3	6	5	5								145
Kaliningrad Oblast, Russia																	3	1					3	1						8
Kaluga region																											2			2
Kamchatka Krai, Russia										2							1													3
Kemerovo Oblast, Russia	4								1			1			1															7
Khanty-Mansi Autonomous Okrug- Yugra, Russia													1																	1
Krasnoyarsk Krai, Russia										10																				10
Kurgan Oblast, Russia																		2												2
Moscow, Russia																				5	2		7		5		1		4	24
Moscow Oblast, Russia							1			2		4		8			2	2	1		7	8	3	3	3		6			50
Nizhny Novgorod Oblast, Russia												1	10	5	2	3							1							22
Novosibirsk Oblast, Russia						3	1	1		1					3		3	3	3	3	3	6	4	3		2		8	20	67
Penza Oblast, Russia												1				1	1						1						3	7
Perm Krai, Russia												3	1																	4
Primorsky Krai, Russia								3	3	3	3	6	6	5	3	4	5	5	6	5	3	8	5					4		77
Republic of Bashkortostan, Russia																						2								2
Republic of Buryatia, Russia		4	2	6	2		5								1		1	1	2	4					9	7	10	7		61
Republic of Mordovia, Russia											1	1	2	1						6	5	15	11					5		47
Republic of North Ossetia- Alania, Russia																							1							1
Republic of Sakha (Yakutia), Russia	25	37	27	39	46	41	57	48	53	75	54	58	53	52	52	61	62	57	54	51	54	56	61	54	83	52	39	37	48	1486
Republic of Tatarstan, Russia												2		2	5					11		5	7	8	10		12	12	37	111
Saint Petersburg, Russia								1	2	2	2	2	2	4	2			3	1	3	2	1					10	1		38
Samara Oblast, Russia					1																		3							4
Sakhalin Oblast, Russia														4																4
Saratov Oblast, Russia													1										1							2
Sverdlovsk Oblast, Russia									1																				10	11



# NUMBER OF TUYMAADA PARTICIPANTS



Official Names	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Total
Tomsk Oblast, Russia	5	6	4	4	4	6																								29
Tyva Republic, Russia	4	9	11	5																	2									31
Khabarovsk Krai, Russia										4				5																9
Yamalo-Nenets Autonomous Okrug, Russia							3																							3
Russian Federation Team											3	2		3	3	3	7	3	4	4	3	2	2							39
Rostov Oblast																													17	17
Alaska, U.S.A.	3				4																									7
Federal Republic of Germany		2	2				2		5	7	9																			27
Federal Democratic Republic of Nepal																									1					1
French Republic			1			1																								2
Hong Kong SAR, China																									21					21
Islamic Republic of Iran	37																									11	6	3	7	64
Kingdom of Belgium						6		8																						14
Kingdom of Thailand				5																										5
Kyrgyz Republic														1																1
Mongolia		7				5													15	15										42
People's Republic of Bangladesh																									1					1
People's Republic of China			8	8	9	8	2	22	11		9	10																		87
Republic of Azerbaijan													2	4																6
Republic of Belarus																									1					1
Republic of Bulgaria										6	6		6		11	9		6					2				8	2	6	62
Republic of Indonesia																	1			1	1			4			22	25	25	79
Republic of Kazakhstan											7	12	22	43	30	38	40	45	66	38	72	72	36	44	21	23	37	74	143	863
Republic of Korea				3						4																				7
Republic of Singapore																								7	12	7	2	5	7	40
Republic of Tajikistan																										5				5
Romania	8	8	8	7	8	8	14	8	10	12	11	11	12	22	22	23	23	24	23	24	23	24	18	20	24	37	3	22	34	491
Ufuk Fund Team, Turkey			4	3	3																									10
United Mexican States											3			2																5
<b>Total</b>	<b>86</b>	<b>82</b>	<b>67</b>	<b>80</b>	<b>78</b>	<b>97</b>	<b>93</b>	<b>99</b>	<b>103</b>	<b>145</b>	<b>123</b>	<b>125</b>	<b>127</b>	<b>173</b>	<b>148</b>	<b>148</b>	<b>164</b>	<b>160</b>	<b>183</b>	<b>185</b>	<b>182</b>	<b>204</b>	<b>166</b>	<b>144</b>	<b>191</b>	<b>152</b>	<b>152</b>	<b>209</b>	<b>355</b>	<b>4221</b>



40

30 YEARS OF THE INTERNATIONAL OLYMPIAD IN MATHEMATICS,  
PHYSICS, CHEMISTRY AND INFORMATICS TUUYMAADA