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# TUUYMAADA

## 26th INTERNATIONAL OLYMPIAD in Mathematics, Physics, Chemistry and Informatics

# 2019





## Dear Friends, Esteemed Judges, Honored Guests,

It is a great pleasure to welcome you all to the 26th Tuymaada Olympiad.

For many years I was personally involved in its organization and judging and am a longtime member of the Tuymaada brotherhood. The Olympiad had always been the one event in the middle of a short Yakutian summer that brings joy and excitement for a good number of people, to its avid followers, to the participants of the past and of today, to judges and experts, for it's a celebration of science and ingenuity, and I firmly believe in your academic achievement, as well as your success in the future.

Tuymaada Olympiad was conceived with a unique format, combining four different fields: math, physics, chemistry, and computer sciences to provide an opportunity for understanding the seamlessness of natural phenomena and the applicability of scientific methods to any place or region.

The name of the Olympiad comes from Tuymaada Valley, which is the name of the valley where Yakutsk city is. In many ways it is a wonderful place. Some 540 mln years ago it was a warm tropical lagoon located somewhere near the equator, where the so-called Cambrian Explosion, the origin of multi-cellular organisms, took place. Later the lagoon drifted slowly to where it stands today. Hundreds of thousands years ago the herds of woolly mammoths roamed the valley and people started settling in; today the valley is the very heart of Eastern Siberia and was for centuries a starting point of many scientific expeditions to the Arctic, to the place unknown. And today, at the dawn of the quantum computing age, I hope the Tuymaada Olympiad will become the starting point of great research and science careers, as well as many success stories of the future.

I would like to thank all the organizers, volunteers, and members of the All-Russian and International Methodological Commissions, and congratulate all of you with the start of the 26th Tuymaada Olympiad.

I wish all the participants to compete with dignity and nobility of spirit to the fullness of your abilities, for the judges to make your decisions with a great sense of fairness so that the Tuymaada Olympiad of 2019 is another success!

All the best to all of you, the Tuymaada brotherhood!

**Dr. Vladimir Egorov,**  
*Minister of Education and Science of the Republic of Sakha (Yakutia)*

PROGRAMME

26th TUYMAADA International Olympiad  
in Mathematics, Physics, Chemistry and Informatics

Chapaevo, Republic of Sakha (Yakutia), Russia  
July 08-14, 2019

Time	Events	Venue
JULY 8, MONDAY		
16.30-17.30	Mathematics, Physics, Chemistry, Informatics Olympiad Orientation Plenary Meeting (for students)	Academy Education Bldg
	Organizing Committee Orientation Plenary Meeting. Safety Instructions (for leaders)	
20.00-21.30	Sakha Film Movies (with English subtitles)	Academy Lecture Hall
JULY 9, TUESDAY		
10.00-11.30	Tuymaada 2019 Team Photo	Academy Territory
15.00-16.30	Opening Ceremony of the 26th TUYMAADA International Olympiad in Mathematics, Physics, Chemistry and Informatics	"Russia – My History" History Park
20.00-22.00	International Get-To-Know Friendship Evening	Academy Lecture Hall

JULY 10, WEDNESDAY

09.00-14.00	OLYMPIAD FIRST DAY	
15.00-17.30	Sightseeing Tour Orto Doydu Zoo	Yakutsk
	Opening Ceremony of the Crafts and Talents City Sports Games	Academy Sports Ground
JULY 11, THURSDAY		
09.00-14.00	OLYMPIAD SECOND DAY	
07:00	Visit to Buluus Glacier (for team leaders)	
15.00-17.30	Sightseeing Tour Orto Doydu Zoo	Yakutsk
20.00-22.00	Closing Ceremony of the Crafts and Talents City Yakut National Sports Games	Academy Sports Ground
JULY 12, FRIDAY		
10.00-13.00	APPEALS	
14.30-16.00	Lectures by scientists of the Republic of Sakha (Yakutia) Academy of Sciences	Academy Education Bldg.
18.00-19.30	Meeting with Mr. Aisen Nikolaev, Head of the Republic of Sakha (Yakutia)	Academy Lecture Hall
JULY 13, SATURDAY		
10.00-12.30	Visit to the Mikhail Nikolaev Presidential Library-Archive	
15.00-16.30	Closing Ceremony of the 26th TUYMAADA International Olympiad in Mathematics, Physics, Chemistry and Informatics	Culture and Sports Center

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
Agin-Buryat Autonomous Okrug, Russia					1																					
Alaska, U.S.A.	3				4																					
Altai Krai, Russia						8		3	1	3	2		3	4												
Amur Oblast, Russia																10				1						
Chelyabinsk Oblast, Russia															3			3	5	8						
Chuvash Republic, Russia												1														
Federal Republic of Germany		2	2				2		5	7	9															
Federal Democratic Republic of Nepal																									1	
French Republic			1			1																				
Hong Kong SAR, China																									21	
Irkutsk Oblast, Russia		9				11	8	5	16	14	13	10	7	7	10	6	5	5	3	6	5	5				
Islamic Republic of Iran																										11
Kaliningrad Oblast, Russia																	3	1					3	1		
Kamchatka Krai, Russia										2							1									
Kemerovo Oblast, Russia					4			1				1			1											
Khabarovsk Krai, Russia										4				5												
Khanty-Mansi Autonomous Okrug-Yugra, Russia														1												
Kingdom of Belgium						6		8																		
Kingdom of Thailand				5																						
Krasnoyarsk Krai, Russia										10																
Kurgan Oblast, Russia																		2								
Kyrgyz Republic														1												
Mongolia		7				5													15	15						
Moscow, Russia																				5	2		7		5	
Moscow Oblast, Russia							1				2		4		8			2	2	1		7	8	3	3	3
Nizhny Novgorod Oblast, Russia												1	10	5	2	3							1			
Novosibirsk Oblast, Russia						3	1	1		1					3		3	3	3	3	3	6	4	3		2
Penza Oblast, Russia												1				1	1						1			
People's Republic of Bangladesh																									1	
People's Republic of China			8	8	9	8	2	22	11		9	10														

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
Perm Krai, Russia												3	1													
Primorsky Krai, Russia								3	3	3	3	6	6	5	3	4	5	5	6	5	3	8	5			
Republic of Azerbaijan													2	4												
Republic of Bashkortostan, Russia																					2					
Republic of Belarus																									1	
Republic of Bulgaria										6	6		6		11	9		6					2			8
Republic of Buryatia, Russia		4	2	6	2		5								1		1	1	2	4					9	7
Republic of Indonesia																	1			1	1			4		
Republic of Kazakhstan											7	12	22	43	30	38	40	45	66	38	72	72	36	44	21	23
Republic of Korea				3						4																
Republic of Mordovia, Russia											1	1	2	1						6	5	15	11			
Republic of North Ossetia-Alania, Russia																						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
Republic of Singapore																								7	12	7
Republic of Tajikistan																										5
Republic of Tatarstan, Russia												2		2	5					11		5	7	8	10	
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
Russian Federation Team											3	2		3	3	3	7	3	4	4	3	2	2			
Saint Petersburg, Russia								1	2	2	2	2	2	4	2			3	1	3	2	1				
Samara Oblast, Russia					1																		3			
Sakhalin Oblast, Russia														4												
Saratov Oblast, Russia													1										1			
Sverdlovsk Oblast, Russia									1																	
Tomsk Oblast, Russia	5	6	4	4	4	6																				
Tyva Republic, Russia	4	9	11	5																	2					
Ufuk Fund Team, Turkey			4	3	3																					
United Mexican States										3				2												
Yamalo-Nenets Autonomous Okrug, Russia							3																			
Total	45	82	67	80	78	101	93	99	103	143	125	121	131	165	156	158	152	160	184	186	175	203	171	144	191	155

# 26<sup>th</sup> TUÝMAADA INTERNATIONAL OLYMPIAD

There are

# 155

PARTICIPANTS

from

# 6

COUNTRIES

# 4

REGIONS OF THE  
RUSSIAN FEDERATION

# 18

TEAMS

# 9

TUTORS

# 13

VOLUNTEERS

# 25

TEAM  
LEADERS

# 29

MEMBERS OF  
METHODOLOGICAL  
COMMISSIONS  
INCLUDING

# 5

Mathematics  
Methodological  
Commission

# 8

Physics  
Methodological  
Commission

# 6

Chemistry  
Methodological  
Commission

# 10

Informatics  
Methodological  
Commission

# 46

MEMBERS  
OF JURY  
INCLUDING

# 11

Mathematics

# 11

Physics

# 14

Chemistry

# 10

Informatics

## Bulgaria

National High School of Science and Mathematics

## Iran

Math Home of Tehran & Rooyesh Andismand Farda  
Educational Institute

## Kazakhstan

Bilim Innovation Aktobe Lyceum Boarding School  
Bilim Innovation Almaty Specialized Lyceum -  
Boarding School  
Bilim Innovation Atyrau Regional Lyceum -  
Boarding School  
Bilim Innovation East Kazakhstan Regional  
Specialized Lyceum for Gifted Children, Semey  
Bilim Innovation Kostanay Lyceum Boarding School  
for Gifted Children  
Bilim Innovation Kyzylorda Regional Lyceum -  
Boarding School for Gifted Children No. 9  
Bilim Innovation Shymkent Lyceum - Boarding  
School for Girls No.2  
Khodzhikov Specialized Lyceum No. 39, Almaty  
Nazarbayev Intellectual School of Physics and  
Mathematics in Almaty  
Nazarbayev Intellectual School of Chemistry and  
Biology in Pavlodar  
Nazarbayev Intellectual School of Chemistry and  
Biology in Almaty  
Nazarbayev Intellectual School of Chemistry and  
Biology in Petropavlovsk  
Nazarbayev Intellectual School of Chemistry and  
Biology in Karaganda  
Republican School of Physics and Mathematics,  
Almaty  
Republican School of Physics and Mathematics,  
Nur-Sultan  
Specialized Lyceum No.165, Almaty

## Moscow Oblast, Russia

Physics and Mathematics Lyceum, Sergiev Posad

## Novosibirsk Oblast, Russia

Specialized Educational Scientific Centre of  
Novosibirsk State University

## Republic of Buryatia, Russia

ENTER Centre for Olympiad Training

## Republic of Sakha (Yakutia)

Bolugur Secondary School, Amginsky Ulus (District)  
Chusovskoy Nyurba Technical Lyceum, Nyurbinsky  
District  
Classical Gymnasium, Yakutsk  
Karimova Neryungri Gymnasium No.1,  
Neryungrinsky District  
Larionov Physics and Technology Lyceum, Yakutsk  
Nam Secondary School No.2, Namsky Ulus  
National Polytechnic Secondary School No.2  
Okhlopkov Nam Ulus Gymnasium  
Republican Lyceum Boarding School, Yakutsk  
Specialized Educational Scientific Centre –  
University Lyceum of M.K. Ammosov North-Eastern  
Federal University  
Yakutsk City Lyceum  
Yakutsk Secondary School No.12

## Romania

Bogdan Petriceicu Hasdeu National College  
Gheorghe Șincai National College  
International Computer High School of Bucharest  
Liceul Teoretic National  
Liceul Teoretic Spiru Haret  
Mihai Viteazul National College  
Saint Sava National College  
Tudor Vianu National High School of Computer  
Science

## Singapore

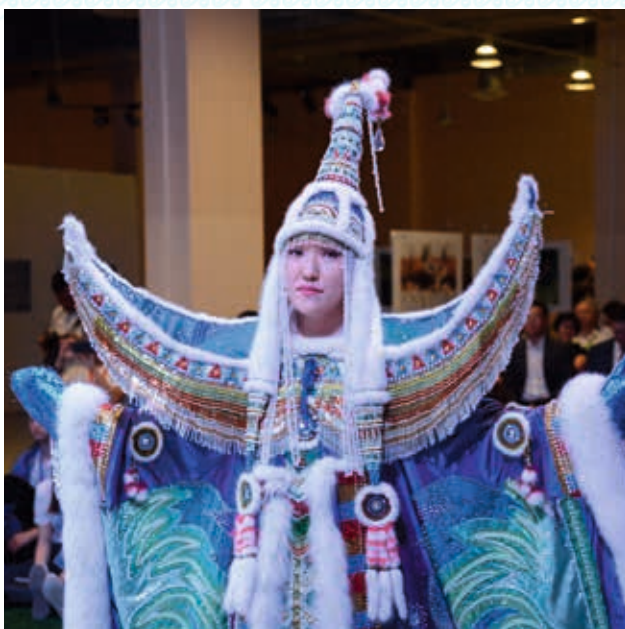
NUS High School of Mathematics and Science

## Tajikistan

Hotam and PV Tajik-Russian Lyceum - Boarding  
School

ИСТОРИЧЕСКИЙ ПАРК «РОССИЯ - МОЯ ИСТОРИЯ» в РЕСПУБЛИКЕ САХА (ЯКУТИЯ)







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Hristo Peev, *team leader*

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Petar Dimitrov  
Yana Dimitrova  
Aleksandar Milchev

Yavor Peev  
Petar Petrov  
Iriney Vasilev  
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*team leader*

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Parniyan Behi  
Alireza Daneshara  
Mahsa Delaram Soufiani  
Arian Falsafi  
Tanaz Fathi

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Seydehatena Moosavi  
Elahe Nayebe  
Sheida Mobader Sani  
Parsa Sardarinejad



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Islamkhan Serikbayev

Dinmuhamed Tursynbay  
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Gleb Pastushchuk



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BURYATIA,  
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Darius-Cristian Lazea  
Diana Tolu



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Tudor Paisanu Constantin



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Valentin Lupu

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Andrei Coman  
Andrei-Ovidiu Ersen  
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Nikolai Dmitriev  
Aian Efremov  
Iakov Iakovlev  
Anna Krivoshepkina  
Danil Krugliak

Maksim Krylykov  
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Diana Makhatyrova  
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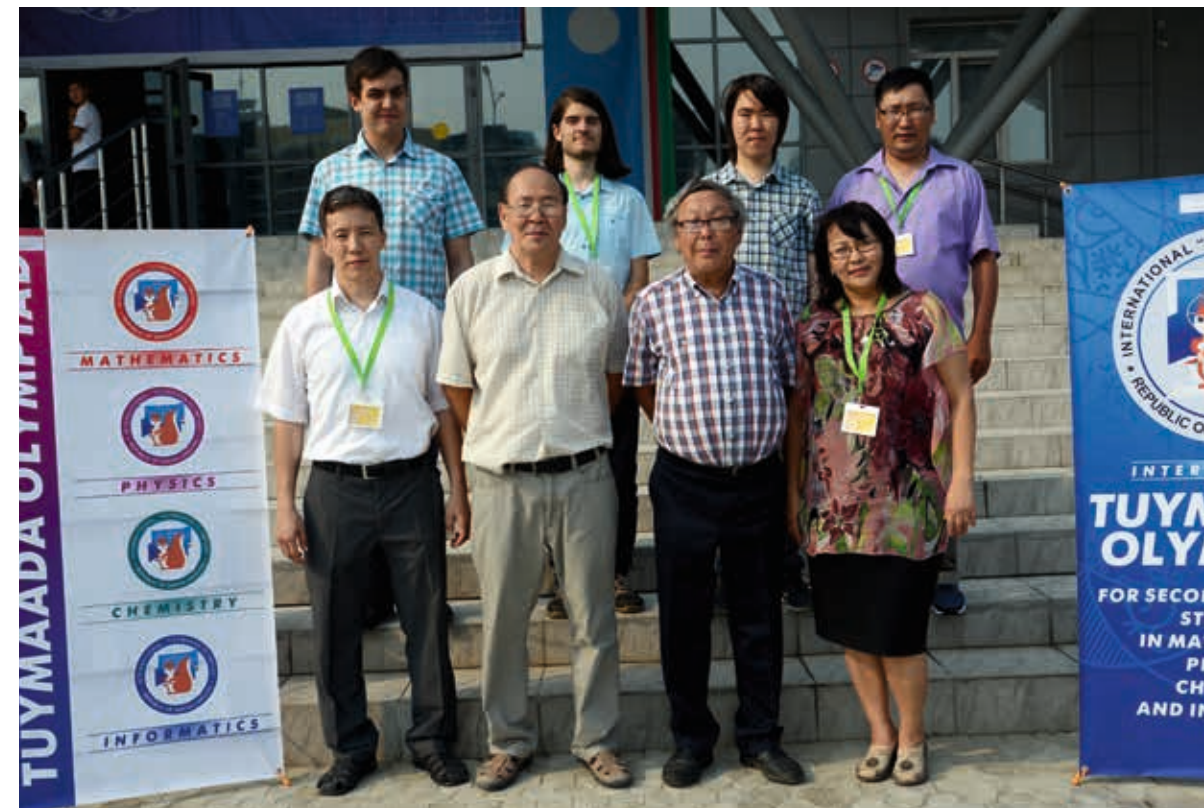
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#### INFORMATICS JURY

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Lolita Timofeeva  
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