

VI International Natural Sciences Tournament Extramural Round Results

July 15, 2015

General Information about the Teams applied in the first wave of extramural round, INST 2015 (March 1 – June 25, 2015)

Team's name	Country	University	Captain's name	Number of participants
Promethium	Malaysia	Universita Malaysia Sarawak	Jagath Rechathan Sivalingam	5
SPCPA-II	Russian Federation	St. Petersburg Chemical & Pharmaceutical Academy	Denis Sapegin	5
Young Scientist	Indonesia	University of Indonesia	Muhammad Arif Darmawan	4
Youth Garuda	Indonesia	University of Indonesia	Hanif Mubarok	4
Indonesian Youth Scientist	Indonesia	University of Indonesia	Adi Nurcahyo	3
Erudite	India	University of Mumbai	Sweta Singh	4
Siddhant	India	University of Mumbai	Amol Menge	5
Chack-Chack Norris	Russian Federation	Kazan Federal University	Michael Yagofarov	5
The Landau-Lifshitz Thirteenth Volume	Ukraine	V. N. Karazin Kharkiv National University	Iryna Zaporozhets	5
SPbSU	Russian Federation	St. Petersburg State University	Andrey Petrov	5
-	Portugal	Instituto Superior Tecnico	Tobias Lobo	4
Ulyana	Russia	Moscow State University	Dmitrii Lukianov	5

Total Ratings after Extramural Round

Team's name	Total, pt.	Rank	Status for intramural round 11-16 November, Saint Petersburg
The Landau-Lifshitz Thirteenth Volume	4,521	1	Accepted
Chack-Chack Norris	4,376	2	Accepted
SPbSU	3,878	3	Accepted
SPCPA-II	3,810	4	Accepted
Promethium	3,215	5	Accepted
Indonesian Youth Scientist	2,745	6	Accepted
Erudite	2,487	7	Accepted
Youth Garuda	2,184	8	Sent for revision*
Young Scientist	2,123	9	Sent for revision*
Siddhant	1,820	10	Sent for revision*
Portugal	0,821	11	Accepted (welcome**)
Ulyana	-	-	Sent for revision* (only 2 of 3 solutions presented by team)

Please, see the Detailed Grades and An Approach to the Extramural Round Grading System at VI International Natural Sciences Tournament for details and references.

****«Sent for revision»** means that teams has shown level of solutions not enough for participation in intramural round in Saint Petersburg. However, teams may participate in second wave of application (deadline is September, 20, 2015). Teams who need visa to come to Russia, please, send your solutions in advance. Experts will evaluate them before deadline of second wave so you can get visa invitation in time.

****Welcoming rule for new countries:** one best team from each country is accepted to INST despite its extramural results

Grading Criterion numbers:

Below the detailed grades for each team are presented. There is no particular order of presenting the grades. The following numbers refer to:

- #1 - solution elaboration, scientific approach;
- #2 - solution originality (new and novel ideas, improvement of existing schemes, their presence and quality factor);
- #3 - literature review (analysis of original sources [books, articles, patents, dissertations, etc.], its completeness and authenticity);
- #4 - accuracy of task model (compliance to task conditions, indication of solution limitations);
- #5 - figures, schemes, formulas, reactions;
- #6 - logic and statement consistency;
- #7 - list of sources / references.



Extramural Round Experts

Mr. Denis Baygozin	- Chief product developer, Aquaphor corp.; - Teacher for additional education, Chemical Center of Lyceum #239, Saint-Petersburg
Dr. Daria Navolotskaya	PhD in chemistry, tutor at Saint Petersburg State University, Institute of Chemistry, department of analytical chemistry.
Dr. Kabanov Alexander	PhD in biochemistry, senior lecturer at Saint-Petersburg State Chemical Pharmaceutical Academy
Dr. Efremov Alexandr	PhD in biology, Works at Institute of Experimental Medicine, Russian Academy of Medical Sciences
Dr. Siliukov Oleg	PhD in chemistry, research engineer, assistant professor, lecturer at Saint Petersburg State University, department of chemical kinetics and thermodynamics
Dr. Merescshenko Andrey	PhD in photochemistry (Bowling Green University, USA) Assistant professor at Saint Petersburg State University, department of inorganic chemistry.



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Malaysia / Promethium | Ranking after Extramural Round: 5

Task No.	Grading criterion #	1	2	3	4	5	6	7	Total	Normalized to Possible Max.	Normalized to Expert Average	Task Average	Task Total
	Possible Max, pt.	4	2	3	4	2	3	2	20				
Task 1	Mr. Baigozin	3	1	2	1	2	2	2	13	0,65	1,09090909	0,875730	3,215
	Dr. Navolotskaya	1	0	2	2	0	1	0	6	0,30	0,66055046		
Task 2	Dr. Kabanov	3	0	2	3	0	3	2	13	0,65	1,03311258	1,090086	
	Dr. Efremov	3	1	3	3	0	2	1	13	0,65	1,14705882		
Task 3	Dr. Siliukov	2	1	3	2	1	2	2	13	0,65	1,25438596	1,249217	
	Dr. Meretschenko	4	2	3	4	1	3	2	19	0,95	1,24404762		



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Russian Federation / SPCPA-II | Ranking after Extramural Round: 4

Task No.	Grading criterion	1	2	3	4	5	6	7	Total	Normalized to Possible Max.	Normalized to Expert Average	Task Average	Task Total
	Possible Max, pt.	4	2	3	4	2	3	2	20				
Task 1	Mr. Baigozin	4	1	2	3	2	3	2	17	0,85	1,42657343	1,538975	3,810
	Dr. Navolotskaya	3	2	1	4	2	3	0	15	0,75	1,65137615		
Task 2	Dr. Kabanov	2	1	3	3	2	3	2	16	0,80	1,27152318	0,988703	
	Dr. Efremov	2	1	0	2	2	1	0	8	0,40	0,70588235		
Task 3	Dr. Siliukov	3	1	1	2	2	2	2	13	0,65	1,25438596	1,281955	
	Dr. Meretschenko	4	2	3	4	2	3	2	20	1,00	1,30952381		



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Indonesia / Young Scientist | Ranking after Extramural Round: 9

Task No.	Grading criterion	1	2	3	4	5	6	7	Total	Normalized to Possible Max.	Normalized to Expert Average	Task Average	Task Total
	Possible Max, pt.	4	2	3	4	2	3	2	20				
Task 1	Mr. Baigozin	2	2	2	1	1	2	2	12	0,60	1,00699301	0,723680	2,123
	Dr. Navolotskaya	0	1	1	1	1	0	0	4	0,20	0,44036697		
Task 2	Dr. Kabanov	2	1	1	2	1	1	1	9	0,45	0,71523179	0,489969	
	Dr. Efremov	1	0	0	1	0	1	0	3	0,15	0,26470588		
Task 3	Dr. Siliukov	1	1	1	1	1	1	2	8	0,40	0,77192982	0,909774	
	Dr. Meretschenko	3	1	2	4	1	3	2	16	0,80	1,04761905		



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Indonesia / Youth Garuda | Ranking after Extramural Round: 8

Task No.	Grading criterion	1	2	3	4	5	6	7	Total	Normalized to Possible Max.	Normalized to Expert Average	Task Average	Task Total
	Possible Max, pt.	4	2	3	4	2	3	2	20				
Task 1	Mr. Baigozin	1	1	1	2	1	1	2	9	0,45	0,75524476	0,542760	2,184
	Dr. Navolotskaya	1	0	1	0	0	0	1	3	0,15	0,33027523		
Task 2	Dr. Kabanov	1	0	2	1	0	1	1	6	0,30	0,47682119	0,635469	
	Dr. Efremov	3	1	1	1	0	3	0	9	0,45	0,7911765		
Task 3	Dr. Siliukov	2	1	1	1	1	2	2	10	0,50	0,96491228	1,006266	
	Dr. Meretschenko	3	1	2	4	1	3	2	16	0,80	1,04761905		



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Indonesia / Indonesian Youth Scientist | Ranking after Extramural Round: 6

Task No.	Grading criterion	1	2	3	4	5	6	7	Total	Normalized to Possible Max.	Normalized to Expert Average	Task Average	Task Total
	Possible Max, pt.	4	2	3	4	2	3	2	20				
Task 1	Mr. Baigozin	3	1	2	3	2	2	2	15	0,75	1,25874126	1,014692	2,745
	Dr. Navolotskaya	1	0	2	2	0	1	1	7	0,35	0,77064220		
Task 2	Dr. Kabanov	2	0	1	2	1	1	1	8	0,40	0,63576159	0,935528	
	Dr. Efremov	3	2	1	3	1	3	1	14	0,70	1,23529412		
Task 3	Dr. Siliukov	1	2	1	1	1	1	2	9	0,45	0,86842105	0,794330	
	Dr. Meretschenko	2	1	1	1	1	3	2	11	0,55	0,72023810		



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India / Erudite | Ranking after Extramural Round: 7

Task No.	Grading criterion	1	2	3	4	5	6	7	Total	Normalized to Possible Max.	Normalized to Expert Average	Task Average	Task Total
	Possible Max, pt.	4	2	3	4	2	3	2	20				
Task 1	Mr. Baigozin	1	1	1	0	0	1	1	5	0,25	0,41958042	0,319882	2,497
	Dr. Navolotskaya	1	0	0	0	0	0	1	2	0,10	0,22018349		
Task 2	Dr. Kabanov	2	1	3	4	0	3	2	15	0,75	1,19205298	1,169556	
	Dr. Efremov	3	2	2	2	2	1	1	13	0,65	1,14705882		
Task 3	Dr. Siliukov	1	1	2	1	0	1	2	8	0,40	0,77192982	1,007989	
	Dr. Meretschenko	3	2	3	4	2	3	2	19	0,95	1,24404762		



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India / Siddhant | Ranking after Extramural Round: 10

Task No.	Grading criterion	1	2	3	4	5	6	7	Total	Normalized to Possible Max.	Normalized to Expert Average	Task Average	Task Total
	Possible Max, pt.	4	2	3	4	2	3	2	20				
Task 1	Mr. Baigozin	1	1	1	1	0	1	2	7	0,35	0,58741259	0,348752	1,820
	Dr. Navolotskaya	0,5	0	0	0	0	0	0,5	1	0,05	0,11009174		
Task 2	Dr. Kabanov	2	1	2	2	0	2	1	10	0,5	0,79470199	0,838527	
	Dr. Efremov	3	2	1	2	0	2	0	10	0,5	0,88235294		
Task 3	Dr. Siliukov	1	1	1	1	0	1	2	7	0,35	0,67543860	0,632362	
	Dr. Meretschenko	1	1	1	4	0	1	1	9	0,45	0,58928571		



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Russian Federation / Chack-Chack Norris | Ranking after Extramural Round: 2

Task No.	Grading criterion	1	2	3	4	5	6	7	Total	Normalized to Possible Max.	Normalized to Expert Average	Task Average	Task Total
	Possible Max, pt.	4	2	3	4	2	3	2	20				
Task 1	Mr. Baigozin	3	2	2	2	2	3	2	16	0,80	1,34265734	1,662154	4,376
	Dr. Navolotskaya	3	1	3	4	2	3	2	18	0,90	1,98165138		
Task 2	Dr. Kabanov	4	2	3	4	2	3	2	20	1,00	1,58940397	1,677055	
	Dr. Efremov	4	2	3	4	2	3	2	20	1,00	1,76470588		
Task 3	Dr. Siliukov	2	1	2	2	1	2	2	12	0,60	1,15789474	1,037281	
	Dr. Meretschenko	2	0	3	2	2	3	2	14	0,70	0,91666667		



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Ukraine / The Landau-Lifshitz Thirteenth Volume | Ranking after Extramural Round: 1

Task No.	Grading criterion	1	2	3	4	5	6	7	Total	Normalized to Possible Max.	Normalized to Expert Average	Task Average	Task Total
	Possible Max, pt.	4	2	3	4	2	3	2	20				
Task 1	Mr. Baigozin	2	1	2	3	1	3	2	14	0,70	1,17482517	1,633284	4,521
	Dr. Navolotskaya	4	1	3	4	2	3	2	19	0,95	2,09174312		
Task 2	Dr. Kabanov	3	2	3	4	2	3	2	19	0,95	1,50993377	1,460849	
	Dr. Efremov	3	2	2	3	2	2	2	16	0,80	1,41176471		
Task 3	Dr. Siliukov	3	1	3	2	2	3	2	16	0,80	1,54385965	1,426692	
	Dr. Meretschenko	4	2	3	4	2	3	2	20	1,00	1,30952381		



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Russian Federation / SPbSU | Ranking after Extramural Round: 3

Task No.	Grading criterion	1	2	3	4	5	6	7	Total	Normalized to Possible Max.	Normalized to Expert Average	Task Average	Task Total
	Possible Max, pt.	4	2	3	4	2	3	2	20				
Task 1	Mr. Baigozin	4	1	2	2	2	3	2	16	0,80	1,34265734	1,497017	3,878
	Dr. Navolotskaya	2	2	3	3	1	2	2	15	0,75	1,65137615		
Task 2	Dr. Kabanov	2	0	2	2	2	2	2	12	0,60	0,95364238	1,050351	
	Dr. Efremov	3	2	2	3	1	2	1	14	0,65	1,14705882		
Task 3	Dr. Siliukov	2	0	2	3	2	3	2	14	0,70	1,35087719	1,330201	
	Dr. Meretschenko	4	2	3	4	2	3	2	20	1,00	1,30952381		



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Portugal / - | Ranking after Extramural Round: 11

Task No.	Grading criterion	1	2	3	4	5	6	7	Total	Normalized to Possible Max.	Normalized to Expert Average	Task Average	Task Total
	Possible Max, pt.	4	2	3	4	2	3	2	20				
Task 1	Mr. Baigozin	1	0	0	1	0	1	0	3	0,15	0,25174825	0,125874	0,821
	Dr. Navolotskaya	0	0	0	0	0	0	0	0	0,00	0,00000000		
Task 2	Dr. Kabanov	0	0	2	1	1	2	0	6	0,30	0,047682119	0,370764	
	Dr. Efremov	1	0	0	0	1	1	0	3	0,15	0,26470588		
Task 3	Dr. Siliukov	1	0	1	1	0	1	0	4	0,20	0,38596491	0,323935	
	Dr. Meretschenko	1	0	1	1	0	1	0	4	0,20	0,26190475		