



50<sup>th</sup> IChO 2018

INTERNATIONAL CHEMISTRY OLYMPIAD  
SLOVAKIA & CZECH REPUBLIC

# CATALYZER<sup>11</sup>

THE ELEVENTH ISSUE OF CATALYZER MAGAZINE

29/07/2018



## ALL OF YOU ARE WINNERS!

On Saturday, 28<sup>th</sup> July, the Prague Rudolfinum witnessed the official closing of the 50<sup>th</sup> International Chemistry Olympiad 2018.

In the very heart of Prague, in this majestic neo-renaissance building, the world's top young chemists gathered for the gala Closing Ceremony. The Rudolfinum is not only a sanctuary of art and music, it also used to be the seat of the Czechoslovak Parliament.

As the students and their mentors were seated, one could see how impatiently they were awaiting the official announcement of final results. Together with their new friends, they were discussing their feelings and experiences and giggling while observ-

ing a large screen on the stage where pictures of every single team were being displayed. Some of the present competitors were focused just on themselves; others were nervously squeezing team mascots or national flags in their hands. An intro, "The Element Song", played while presenters Daniel Stach and Emma Smetana warmly welcomed the entire audience from the stage. After large applause by 300 students, 256 mentors, 84 guides, 27 ambassadors, and other distinguished guests, making it a total of 731 people, Dvořák Hall was carried away by the tones of the symphonic poem, "Vltava" by Bedřich Smetana, performed live by the Nostitz Quartet, with the Vltava River flowing in front of them on the screen.

A few minutes later, Martin Putala and Petr Holzhauser, Presidents of the 50<sup>th</sup> IChO, went on stage. Putala asked audience members if they were happy about the Olympiad. The audience answered with loud applause, nodding their heads. Referring to his Opening Ceremony speech in Bratislava, Holzhauser described how his feelings have evolved during the past few days: "My right hand has been shaking due to signing over 700 certificates and diplomas. Now I am in the process of relaxation and slowly gaining back a degree of freedom," Holzhauser said.

As the medal ceremony was about to begin, nervousness was gradually increasing. Firstly, 10 Honorable Mentions were awarded, then it was time to award the students with the medals. In total, students were awarded 95, 65, and 35 bronze, silver, and gold medals, respectively. The best students in the Theoretical and Practical Parts were announced: Yichen Nie (China) and Qingyu Chen (China) were given prizes by IUPAC and DuPont representatives. Finally, the students who absolutely ruled the competition, gold Qingyu Chen (China), silver Aleksei Konoplev (Russian Federation), and bronze Raymond Eugene Bahng (Republic of Korea), were given medals by Katarzyna Woś of platinum partner, Unipetrol.

At the very end of the Closing Ceremony, both the Czech and Slovak presidents of IChO 2018 met Anne Szymczak, French Chair of the Educational Committee for the 51<sup>st</sup> IChO, on the stage. With this, the relay baton was passed to France. Bonne chance!

*Elizabeth Lensmith, Marek Lanč*

# IChO 2018 RESULTS

## Absolute Winners

1	Qingyu Chen	CHN
2	Aleksei Konoplev	RUS
3	Raymond Eugene Bahng	KOR

## Best Practical Exam

Qingyu Chen CHN

## Best Theoretical Exam

Yichen Nie CHN

## GOLD MEDAL

1	Qingyu Chen	CHN
2	Aleksei Konoplev	RUS
3	Raymond Eugene Bahng	KOR
4	Jeffrey Shullen Shi	USA
5	Marvin Dragon Choo	SGP
6	Chenyu Wang	CHN
7	Junlong Qin	CHN
8	Jan Obořil	CZE
9	Chae Rin Kim	KOR
10	Michelle Lu	USA
11	Vinicius Figueira Armelin	BRA
12	Andrew Shucheng Wu	USA

13	Yutong Dai	USA
14	Jonathan David Bostock	GBR
15	Yichen Nie	CHN
16	Kyrylo Danyleiko	UKR
17	Anh Duc Pham	VNM
18	Mikhail Matveev	RUS
19	Khi Yung Fong	SGP
20	Phuritat Sookananchai	THA
21	Ceylan Ceylan	TUR
22	Yu-Che Chien	TWN
23	Mátyás Sajgó	HUN
24	Jinyeong Kim	KOR

25	Josef Tomeček	CZE
26	Dhyey Gandhi	IND
27	Ong Christopher Ivan Wijaya	IDN
28	Takanao Ishii	JPN
29	Ivna de Lima F. Gomes	BRA
30	Alexandra Andrea Geim	GBR
31	Jishnu Basavaraju	IND
32	Petar Petkov Hristov	BGR
33	Matteo S. Elie J. Stockinger	FRA
34	Miroslava Novoveská	CZE
35	Joonsuk Ryan Dan Kang	GBR

## SILVER MEDAL

36	Daniil Bardonov	RUS
37	Sanchit Agrawal	IND
38	Junhwan Won	KOR
39	Jiapei Miao	SGP
40	Ilija Srpak	HRV
41	Stefan Schmid	AUT
42	Hur Lim	SGP
43	Ramil Terlan Babazade	AZE
44	Evgeni Mihaylov Statelov	BGR
45	Filippo Bigi	ITA
46	Richard Veselý	CZE
47	Daniel Maksymilian Golec	POL
48	Po-Wen Chen	TWN
49	Mahdi Jafarzadehbedostani	IRN
50	Kai-Cheng Hsu	TWN
51	Teodora Stan	ROU
52	Tudor Cristian Cozma	ROU
53	Pawet Franciszek Tyrna	POL
54	Alexandre Polo	FRA
55	Sanprem Taechawichian	THA
56	Jun Hao Tan	MYS
57	Run Lin Wang	CAN

58	Hakan Calila	ROU
59	Behrad Saeedian	IRN
60	Bence Béla Botlik	HUN
61	Artem Yanchak	UKR
62	Rukovanský Peter	SVK
63	Nguyen Van Chi Nguyen	VNM
64	Raymond Li	AUS
65	Andrei Kobelev	RUS
66	John Andrew Hayton	GBR
67	Vid Kermelj	SVN
68	Kieran Connor	AUS
69	Tung Thanh Hoang	VNM
70	Wojciech Jan Jankowski	POL
71	Abdullah Muqaddam	IDN
72	Richard Huang	AUS
73	Zhanibek Bekkhozhin	KAZ
74	Taichi Nishiguchi	JPN
75	Gustavs Jānis Mežciems	LVA
76	Wei Chung	TWN
77	Renzo Mattos	PER
78	Aayush Kadam	IND
79	Martin Orságh	SVK

80	Florian Kluibenschedl	AUT
81	Raz Lotan	ISR
82	Olavs Rāciņš	LVA
83	Hanna-Riia Allas	EST
84	João Victor M. Pimentel	BRA
85	Arshia Khademi	IRN
86	Olha Vashchenko	UKR
87	Māris Koniševs	LVA
88	Bader Sulman Almulhim	SAU
89	Dmytro Tsarenko	UKR
90	Pichamon Assawaphadungsit	THA
91	Janko Civic	HRV
92	Mohammadhossein Sharifnia	IRN
93	Cristóbal Manuel Cortés	ARG
94	Martin Rihtaršič	SVN
95	Palina Bulauskaya	BLR
96	Yuta Masunaga	JPN
97	Sietse Dijt	NLD
98	Franco Héctor C. Baroffio	URY
99	Pakaphol Thadawasinsin	THA
100	Ignacio Román Battagliese	ARG

## BRONZE MEDAL

101	Sebastian Witte	DEU
102	Ruoh Wen Cheong	MYS
103	Antoni Artur Prus	POL
104	Batuhan Apa	TUR
105	Dzianis Novash	BLR
106	Alejandro Munguia-Aldapa	MEX

107	Duat Nhat Phan	VNM
108	Mees Hendriks	NLD
109	Eszter Sára Arany	HUN
110	George Petriashvili	GEO
111	Yusa Can Dinc	TUR
112	Thomas Bro Falkenberg	DNK

113	Davit Rizhinashvili	GEO
114	Titouan Gadeyne	FRA
115	Áron Czakó	HUN
116	Daniel Cristian Ungureanu	ROU
117	Abdulrahman F. Aledrees	SAU
118	Luca Spagnoletti	ITA

119	Nicolás Adriel Manno	ARG
120	Nikita Žoglo	EST
121	Hector Rodriguez	PER
122	Suvdanchimeg Sunderiya	MNG
123	Nariman Irahid Mirishov	AZE
124	Rizki Kurniawan	IDN
125	Gregor Drelchowska	AUT
126	Russell Scott Boey	NZL
127	Brecht Guido M Pierreux	BEL
128	Callan Maurice Loomes	NZL
129	Osama Mohammed Alali	SAU
130	Kamen Pavlinov Petrov	BGR
131	Ali Mohammed Alasmari	SAU
132	Michal Chovanec	SVK
133	Muhammad Syaiful Islam	IDN
134	Phillip Liang	AUS
135	Yuto Fukumoto	JPN
136	Magdalena Lederbauer	AUT
137	Sebastián Solís-Vargas	CRI
138	Oliver Ovsée Laub Solow	DNK
139	Alexandros Terzopoulos	GRC
140	Jože Gašperlin	SVN
141	Marko Beslač	SRB
142	Bruno Diaz	PER
143	Jaloliddin S. oqli Alavitdinov	UZB
144	Emre Kilic	TUR
145	Chiril Solovei	MDA

146	Olzhas Nurpeisov	KAZ
147	Siim Kauver	EST
148	Alejandro Valderrama-Celestino	MEX
149	Aliaksei Harakhouski	BLR
150	Neyci E. Gutierrez-Valencia	MEX
151	Saba Gogichaishvili	GEO
152	Galymzhan Moldagulov	KAZ
153	Sean Hikaru Wang	CAN
154	Dildora I. qizi Khakimboeva	UZB
155	Inomjon Majidov	TJK
156	Matko Petrovic	HRV
157	Borna Simic	HRV
158	Justas Terentjevas	LTU
159	Vladislav Ghies	MDA
160	Aaron Yuxiang Dou	CAN
161	Rokas Vilnius Sidlauskas	LTU
162	Aleh Karatkou	BLR
163	Daniele Furlanetto	ITA
164	Thomas Froitzheim	DEU
165	Ahror Ismóili	TJK
166	Akmuhammet Karayev	TKM
167	Emmanouil Kokkinis	GRC
168	Jorge Martín Álvarez	ESP
169	Antonio Andonovski	MKD
170	Daan Hoogers	NLD
171	Siiri Susanna Kuoppala	FIN

172	Peter Gonda	SVK
173	Khas-Anand Sandagdorj	MNG
174	Andrej Kovačević	SRB
175	Mihaela Magdei	MDA
176	Tom Gaëtan F. A. Lacoma	FRA
177	Lukas Supragonas	LTU
178	Björn Axel Rudolf Diemer	SWE
179	Julius Dela Rosa Macling	PHL
180	Anna Marija Sumrova	LVA
181	Leo Stoll	NOR
182	Giovanni Pellegrino	ITA
183	Roi Peer	ISR
184	Orisvaldo Salviano Neto	BRA
185	Muhammed S. S. Thaniana	PAK
186	Roman Herbert Behrends	DEU
187	Steven Yunfei Ma	NZL
188	Turan Babek Mammadli	AZE
189	Alec Elías Sigurðarson	ISL
190	Stefan Damchevski	MKD
191	Israel Mina Aguba	PHL
192	Joonatan Honkamaa	FIN
193	Lennart Horn	CHE
194	Athanasios Fokaidis-Psyllas	GRC
195	Bayrammuhammet Annageldyyev	TKM

## HONORABLE MENTION

196	Pieter S. Vanslambrouck	BEL
197	Mindaugas Dzenkaitis	LTU
198	Vladislav Cherdantsev	KAZ
199	Nikola Knežević	SRB

200	Ali Tahir Aliyev	AZE
201	Jaime Salamanca Camacho	ESP
202	Baiaman Bazarbaev	KGZ
203	Levan Gojashvili	GEO

204	Fausto Aldegheri	ARG
205	Agustín Alejandro Lorusso Notaro-Francesco	URY

206	Nomin Gankhuyag	MNG
207	Igor Topalović	SRB
208	Denislav K. Stanchev	BGR
209	Kevin A. Urrutia Alvarez	SLV
210	Alexa S. Garcia-Rendon	MEX
211	Modar Monzer Al Ali	SYR
212	Narek Petrosyan	ARM
213	Tomi Patrik Termonen	FIN
214	Nanna Lærke Baun	DNK
215	Arthur R. Ventura De Belen	PHL
216	Hovhannes Matevosyan	ARM
217	João Francisco Paulo Morais	PRT
218	Erling Syversveen Lie	NOR
219	Juri Volodin	EST
220	Victor Crasco	MDA
221	William E. M. Hernández	SLV
222	Jere Erik Niemi	FIN
223	Ziting Xia	CAN
224	Erin Fleur Fitzsimons-West	IRL
225	Munkhnaran Bulgan	MNG
226	Akbar Gafur ogli Bazarbaev	UZB
227	Fernando Alvarez	PER
228	Johan E. Linnestad Larsson	NOR
229	Bakri Yahia Roumi Jamal	SYR
230	Eddie K. Efimenko	URY
231	Eshret Atanyazov	TKM
232	Komai Osama Mhana	SYR
233	Manuel Iglesias Alonso	ESP
234	Lukas Lettmann	DEU
235	Jesús David Zambrano	VEN
236	Stefan Stojkovikj	MKD
237	David Joseph McSharry	IRL

238	Árni Tómas Sveinbjörnsson	ISL
239	Gohar Saqib Fazal	PAK
240	Nastja Medle	SVN
241	Mikaella Ty Ngo	DNK
242	Jafeth Méndez-Gomez	CRI
243	Alexandre Lebailly	BEL
244	Armando Luís M. G. Teixeira	PRT
245	Muhammad H. M. Adzrill	MYS
246	Paulo Miguel T. Cortesão	PRT
247	Eskil Vik	NOR
248	Eldar Máni Gíslason	ISL
249	Daniel Alejandro R. Aparicio	SLV
250	Hen Gelshtein	ISR
251	Muhamad Lutfir R. Hamzam	MYS
252	Marieke Visscher	NLD
253	Galen Noel Galan Nifas	PHL
254	Luis José Parra Molina	VEN
255	Renaud Gourmand	BEL
256	Nizaar Adnan Aqla	SYR
257	Noa Crassac	ISR
258	Nicholas William Pochinkov	IRL
259	Magdalena Zlatanova	MKD
260	Carole Zermatten	CHE
261	Alicia S. Thorborg van Hees	SWE
262	Rodrigo A. M. Fernández	URY
263	Ebba Sofia Matic	SWE
264	Chantal Sandra Balmer	CHE
265	Kevin Chinchilla-Mora	CRI
266	Philip David Krause	IRL
267	Demetris Tikkis	CYP
268	Stefan Ivanov	NZL
269	Fabian Hollinger	CHE

270	Beatriz Maria Silva Lisboa	PRT
271	Konstantinos Ntounis	GRC
272	Ioannis Michalis Kestoras	CYP
273	Mirkhad Chekirbaev	KGZ
274	Atabay Allamyradov	TKM
275	Ægir Örn Kristjánsson	ISL
276	Carl Åke Aron Enliden	SWE
277	José Pablo Vásquez-Rojas	CRI
278	Movses Aghekyan	ARM
279	Ilias Batyrbekov	KGZ
280	Tomer Melnik	ZAF
281	José Gabriel Rosa Rivero	VEN
282	Yeshan Sugie Naidoo	ZAF
283	Andrés Rafael De Sousa	VEN
284	Hrachuhi Harutyunyan	ARM
285	Saida U. qizi Ortikboeva	UZB
286	Andreas Dramiotis	CYP
287	Pipololaoluwa Adeayo Alao	NGA
288	Pablo Real Baeza	ESP
289	Glory Chisom Okoli	NGA
290	Judah O. Oladipo-Joseph	NGA
291	Pavle Vulcanovic	MNE
292	Abhishek Rahul Budhram	ZAF
293	Muhammadiqboli Musozoda	TJK
294	Daniel Petrus Marais	ZAF
295	Qurbonali Komili	TJK
296	Masa Colakovic	MNE
297	Anna Maria Loukaidou	CYP
298	Aidar Kamalov	KGZ
299	Mila Veselinovic	MNE
300	Sara Saric	MNE



# INTERNATIONAL CHEM





# ISTRY OLYMPIAD 2018









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## MANY THANKS TO YOU ALL

This is the end. The end of the Olympiad and the final Catalyzer. But it's only the end of this year's event. We spent two years preparing for it. As the start of the Olympiad was coming closer, the number of people who participated in its organization began to grow, together with the excitement and nervousness that everything would turn out well. We would like to extend our gratitude to all who took part in the preparations or

who in any way contributed to making the crazy dream of two friends become a reality! We would like to thank all the authors, guides, partners, VIPs, editors, proofreaders, photographers, graphic designers, assistants, specialists, consultants, all kinds of managers, event specialists, health personnel, artists, helpers, and all those we may have forgotten to mention, simply everybody! Because everyone put 100%

into it and everyone had her or his share in everything turning out well. And also thanks to our Copperheads, because they were simply amazing!

It's said that the Czech and Slovak Republics are situated in the heart of Europe. So we, throughout the organization of this anniversary Olympiad, put our hearts into it. We believe that we succeeded in delivering a memorable event that you will carry home with you in your hearts and share with the whole world. Many thanks to you all!

*Petr Holzhauser, Martin Putala*

### CATALYZER TEAM

- **Tatiana Nemirovich**, photographer ▪ **Jiří Suchan**, photographer ▪ **Peter Horváth**, photographer ▪ **Tomáš Belloň**, photographer
- **Elizabeth Lensmith**, reporter ▪ **Žofia Váryová**, reporter ▪ **Matej Šemelák**, reporter ▪ **Marek Lanč**, chief reporter
- **Stephanie Krueger**, proofreader ▪ **Dana Husníková**, designer ▪ **Michal Janovský**, editor-in-chief ▪ and many others...

#### PLATINUM PARTNER



50<sup>th</sup> IChO 2018  
INTERNATIONAL CHEMISTRY OLYMPIAD  
SLOVAKIA & CZECH REPUBLIC

#### SILVER PARTNERS



#### BRONZE PARTNERS



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