

Nowy Sącz, POLAND 2005
The 17-th International
Olympiad in Informatics

Issue 8, Thursday, August 25th

NEWSLETTER

of the 17th International Olympiad in Informatics, Poland 2005

Happened on this day

1609: Galileo demonstrated his first telescope

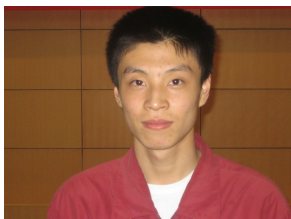
1875: the first person swims across the English (La Manche) Channel, it takes 21 hours

1919: the first international airline began operating. It connected London and Paris.

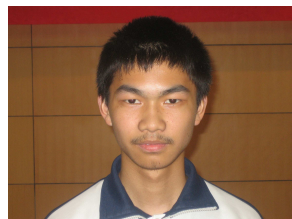
First place split in four



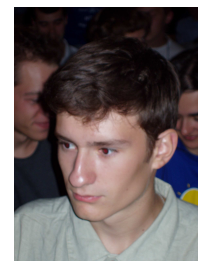
Eric Price
USA



Yuan Zhou
China



Weidong Hu
China



Yuriy Znovyak
Ukraine



Good luck, Mexico

The scores were revealed, medals and prizes awarded, the Olympic flag was passed to the leaders of Mexico. This IOI has now become a closed chapter.

Yesterday in the spotlight there were the four winners, all sharing the first place with the perfect 600 points score. They were accompanied by 134 other medalists, who entered the stage to be awarded for their skills and talents in algorithms and programming. You may find a complete list of these on the next pages (we would like to stress that 75% of the female contestants were awarded medals, while only about 50% of the male contestants will come home with a something round on their chest).

Let us also congratulate you, all the contestants of the IOI'2005. No matter what your score is, you have won a lot with your very presence here. Good luck, and see you next year!



The main attraction of the afternoon

DEPARTURE DAY

<i>All day</i>	departures
7.00 - 8.30	breakfast
12.30 - 14.00	lunch

WEATHER FORECAST

Still no sun

morning		15°C / 59°F
afternoon		18°C / 64°F
evening		16°C / 61°F

Congratulations to *Zide Du* from *China*, who was elected the President of the International Olympiad in Informatics by the General Assembly yesterday!

Quotation of the day:

A bus station is where a bus stops. A train station is where a train stops. On my desk I have a workstation...



Gold medalists, places 1-24

Eric Price	United States	600	Fan Long	China	542
Yuriy Znovyak	Ukraine	600	Amitay Kamber	Israel	541
Yuan Zhou	China	600	Jakub Závodný	Slovak Republic	536
Weidong Hu	China	600	Richard McCutchen	United States	535
Jee Hoon Kang	Korea, Republic of	583	Richard (Yang) Peng	Canada	523
Michal Burger	Slovak Republic	576	Anak Yodpinyanee	Thailand	522
Andriy Grynenko	Ukraine	568	Zeyuan Zhu	China	514
Alex Schwendner	United States	566	Vahe Musoyan	Armenia	511
Mehdi Bouaziz	France	556	John Pardon	United States	505
Puthikorn Voravootivat	Thailand	550	František Šimančík	Slovak Republic	500
Sergey Kopeliovich	Russia	550	Hoo Yeon Lee	Korea, Republic of	500
Filip Wolski	Poland	550	Peter Perešíni	Slovak Republic	496



Silver medalists, places 25-71

Martin Orr	Ireland	483	Ville Pettersson	Finland	435
Svetoslav Kolev	Bulgaria	480	Andrian Kurniady	Indonesia	434
Danylo Mysak	Ukraine	477	Benjamin Franz	Germany	433
Daumilas Ardickas	Lithuania	476	Nguyen Bich Hoang Anh	Vietnam	427
Laur Tooming	Estonia	475	Davor Prugovecki	Croatia	421
Luca Barbieri	Italy	475	Kshitij Bansal	India	420
Mahdi Safarnejad	Iran	474	Olegs Urziks	Latvia	418
Rostislav Rumenov	Bulgaria	470	Uladzimir Miniaillau	Belarus	418
Alexander Yurev	Russia	470	Daniel Rodríguez Sánchez	Cuba	418
Mark Thompson	Great Britain	465	Derianto Kusuma	Indonesia	417
Chun-Ta Lin	Chinese Taipei	461	Chun-Sung Ferng	Chinese Taipei	416
Pathompol Saeng Uraiporn	Thailand	454	Bauke Conijn	Netherlands	415
Dan-Ionut Fechete	Romania	454	Yehonatan Rozenshein	Israel	413
Adam Gawarkiewicz	Poland	454	Alexandra Zykova	Russia	412
Yu-Fan Ho	Chinese Taipei	450	Simon Parent	Canada	412
Sukolsak Sakshuwong	Thailand	450	Balázs Kormányos	Hungary	410
Jonathan Mosheiff	Israel	450	Igors Stepanovs	Latvia	409
Alessio Guerrieri	Italy	449	Jacques-Henri Jourdan	France	404
Vasil Lyutskanov	Bulgaria	449	Harpreet Singh	India	400
Tomasz Kulczyński	Poland	448	Gang Won Jo	Korea, Republic of	395
Thomas Fersch	Germany	446	Mohammad Mahini	Iran	395
Jaan Vajakas	Estonia	445	Sin-man Choi	Hong Kong China	394
Mircea-Bogdan Pasoi	Romania	441	Alvin Abdagić	Bosnia and Herzegovina	393
Philipp Krähenbühl	Switzerland	439			

We wish to thank everyone who contributed photos or texts to the Newsletter: *Szymon Acedański, Marcin Stefaniak, Agnieszka Chrzastowska, Qiyu Zhu, Kasia Jachim, the team from Portugal; all the guides and various staff members* for their ideas and help; *Justyna Diks and Joanna Czechowska* for patiently fixing our English; *Tomasz Warchoł* for a Rush Hour checker program; *Jakub Radoszewski* for an extensive post-print spell-checking.

Chief editor: Piotr Chrzastowski (p.chrzastowski@gmail.com). Editors: Anna Niewiarowska (aniewiarowska@wp.pl), Michał Adamaszek (aszek@o2.pl). Please submit further questions or comments to one of the above addresses.



Bronze medalists, places 72-138

Simon Schuler	Switzerland	391	Arnold Joseph Noronha	India	328
Marcell Stippinger	Hungary	390	Hamza Fawzi	Egypt	325
Sonny Budiman Sasaka	Indonesia	390	Luis Vargas Azcona	Mexico	322
Angel Dzhigarov	Bulgaria	389	Qiyu Zhu	Canada	321
Daniel-Vasile Pasaila	Romania	386	Igor Goroshko	Kyrgyzstan	319
Dorjnamjil Chandmani	Mongolia	385	Nguyen Duc Dung	Vietnam	317
Ali Malekzadeh	Iran	384	Ondřej Bílka	Czech Republic	316
Chen Xing	Sweden	381	Bakytzhan Baizhikenov	Kazakhstan	315
Radu Marin	Romania	378	Aliaksei Labanau	Belarus	314
Yun Dong Yeo	Korea, Republic of	377	Mohammad-Amin Sadeghi	Iran	310
Daniel Marek	Czech Republic	375	André Slepetyš	Brazil	309
Lik-yau Yip	Hong Kong China	374	Ricardo Martin	Spain	308
Felix Arends	Germany	369	Mikita Lesnikau	Belarus	306
Aidin Kashigar	Canada	366	Chuan Yu Foo	Singapore	305
Ka-cheong Lui	Hong Kong China	365	Ákos Ludányi	Hungary	303
Ignat Meldin	Russia	363	Hsin-Hao Su	Chinese Taipei	296
Asger Ipsen	Denmark	359	Timothy Stranex	South Africa	295
Yerlan Bissenov	Kazakhstan	359	Bojan Bašić	Serbia and Montenegro	295
Preyas Popat	India	356	Mattias Linnap	Estonia	294
Zviad Metreveli	Georgia	353	Robert R. Enderlein	Switzerland	294
Raphael Henrique Ribas	Brazil	351	Gerhard Niederbrucker	Austria	293
Vytis Banaitis	Lithuania	346	Erik Panzer	Germany	293
Diego Andrés Vizía	Argentina	345	Peter Poier	Austria	290
Pham Hai Minh	Vietnam	343	Daniel Czajka	Poland	290
Igor Kabiljo	Serbia and Montenegro	342	Atamyrat Hezretgulyew	Turkmenistan	284
Timur Abishev	Kazakhstan	338	Uladzimir Kerus	Belarus	283
Gergely Tassy	Hungary	335	Giorgio Audrito	Italy	280
Stevan Jončić	Serbia and Montenegro	335	Giorgi Nadiradze	Georgia	280
David Cuéllar Morales	Cuba	334	Nam Lei	Macau China	280
Volodymyr Kozhayev	Ukraine	333	Alexander Davies	Australia	278
Ming-lam Leung	Hong Kong China	333	Chethiya Abeysinghe	Sri Lanka	277
Dang Hoang Vu	Vietnam	330	Stéphane Caron	France	275
Oguz Kaya	Turkey	330	Simion Filip	Moldova	275
Sergejs Belajevs	Latvia	328			

INTERVIEW

with Weidong Hu (W.H.), Eric Price (E.P.), Yuan Zhou (Y.Zh.) and Yuriy Znovyak (Y.Zn.)

- *Did it take a lot of preparations to score perfectly?*

Y.Zn.: Almost all the summer I've been preparing with my team-mate, who also scored a gold medal.

E.P.: No, I didn't prepare thoroughly.

W.H., Y.Zh.: Quite a lot, mostly reading books, also solving some tasks.

- *Were the problems challenging?*

E.P.: They were too easy as for the IOI.

W.H.: A few of them required some thinking.

Y.Zn.: They were rather easy, but I'd say the level of difficulty was similar to the previous IOIs.

- *Was it your first big success at the Olympiad?*

W.H.: No, last year I was second in Athens.

Y.Zn.: I've already scored two bronze medals at the

previous IOIs.

Y.Zh.: As a matter of fact this was my first and last time at the IOI. Therefore I'm even more satisfied with my score.

- *You are all graduating from the high school this year.*

What next?

W.H., Y.Zh.: Computer science at Tsinghua Univ., one of the best in China.

Y.Zn.: The Ukrainian Univ. in Kiev.

E.P.: MIT. I'm going there in 3 days.

- *How do you spend your spare time?*

E.P.: Frisbee, of course. It is the best.

Y.Zh.: I like table tennis and swimming.

W.H.: I play my favourite sports: table tennis and basketball.

- *Thank you, congratulations, and good luck at your universities!*

ENTERTAINMENT

Personality test

Are you good with computers?

20. Your home address is:

- a) 192.168.0.1
- b) 127.0.0.1
- c) 10.172.0.1

21. Your most beautiful memories from this IOI come from:

- a) the trial session
- b) contest day 1
- c) contest day 2

22. The key to your flat is:

- a) 256 bits long
- b) 512 bits long
- c) 1024 bits long

23. When you have made a terrible mess you:

- a) `rm -rf *`
- b) `mkdir temp_352`
- c) `defrag`

24. What kind of movies do you like the most?

- a) .mpg
- b) .avi
- c) .wmv

25. The best way to lose some weight is:

- a) zip
- b) gzip
- c) bzip2

Solution. Which was your most frequent answer?

a) you will be a good computer scientist, but you must stop solving stupid personality tests. Get back to work!

b) you will be a good computer scientist, but you must solve some more personality tests. Go and find one on the Internet!

c) you will be a good computer scientist, but you must become an editor and invent personality tests yourself. Don't worry. That involves a lot of computer work too.

Rush hour - The challenge resolved

It turned out that you had some minor or major remarks concerning three of the four best puzzles we published two issues ago.

The 79-moves puzzle is due to Ignat Meldin and Yurev Alexander from Russia. It turned out to require only 43 moves, because of a small misunderstanding of the rules. It was noticed by the authors themselves as well as by Geir Engdahl from Norway and the team from Thailand (the last two also submitted a complete sequence of moves) and the team from Estonia.

The 50-moves puzzle was submitted by Michal Forišek, the Deputy Leader of Slovakia. It requires 50 moves indeed.

The 43-moves one is by Geir Engdahl, the leader of Norway. As noticed by the author and by the team from Estonia, the final move was not counted. Therefore it is now a 44-moves puzzle.

The German team are the authors of the 40-moves puzzle, which turned out to be unsolvable. We know it from the team from Estonia and from Ignat Meldin from Russia.

In this case the winners are as follows:

1st place: Michal Forišek with 50 moves

2nd place: Geir Engdahl with 44 moves

3rd place: Ignat Meldin and Yurev Alexander with 43 moves

The longest puzzle case we know requires 53 moves. The winner got very close to this number.

Congratulations!

Rush hour

This is the last from a long series of puzzles. Once again we remind the one submitted by the winner of the challenge.



Polish your Polish

gold - **złoty**
silver - **srebrny**
bronze - **brązowy**
a medal - **medal**
good bye - **do widzenia!**
see you - **do zobaczenia!**