

Minutes of the Meetings of the International Board
During the 45th International Physics Olympiad in Astana, Kazakhstan,
July 13 – 21, 2014

1. A total number of 374 contestants from the following 83 countries were present at the 45th International Physics Olympiad (IPhO):

Albania, Armenia, Australia, Austria, Azerbaijan, Bangladesh, Belarus, Belgium, Bolivia, Bosnia & Herzegovina, Brazil, Bulgaria, Cambodia, Canada, China, Colombia, Croatia, Cuba, Cyprus, Czech Republic, Denmark, Ecuador, El Salvador, Estonia, Finland, France, Georgia, Germany, Greece, Hong Kong, Hungary, Iceland, India, Indonesia, Iran, Israel, Italy, Japan, Kazakhstan, Kyrgyzstan, Latvia, Liechtenstein, Lithuania, Macau, Macedonia, Malaysia, Mexico, Moldova, Mongolia, Montenegro, Myanmar, Nepal, Netherlands, Nigeria, Norway, Pakistan, Poland, Portugal, Puerto Rico, Romania, Russia, Saudi Arabia, Serbia, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sri Lanka, Suriname, Sweden, Switzerland, Syria, Taiwan, Tajikistan, Thailand, Turkey, Turkmenistan, Ukraine, United Kingdom, USA, Vietnam. Results of marking papers by the organizers were presented.

The best score (41.6 points) was achieved by Mr. Xiaoyu Xu from China (the overall winner of the 45th IPhO). The following minimal points for awarding the medals and the honorable mention were established according to the Statutes:

Gold Medal	27.21 points
Silver Medal	18.40 points
Bronze Medal	12.7 points
Honorable Mention	9.15 points

According to the above minima, 43 Gold Medals, 80 Silver Medals, 89 Bronze Medals, and 62 Honorable Mentions were awarded. The grade lists of the awardees were distributed to all the delegation leaders in print.

3. In addition to the regular prizes, the following special prizes were awarded:

- **The Overall Winner**

Mr. Xiaoyu Xu, China

- **The Best in Theory**

Mr. Cyuan-Han Chang, Taiwan

- **The Best in Experiment**

Mr. Fan Francis Wang, Singapore

- **The Most Original Solution to a Problem**

Mr. Arsenii Pikalov, Russia

- **The Best Female Participant**

Ms. Do Thi Bich Hue, Vietnam

- **The Best Participant from Host Country**

Mr. Amir Bralin, Kazakhstan

- **The Best Student from the First Time Participating Country**

Mr. Ismail Dawoodjee, Myanmar

- **Special Prizes of European Physical Society**

Mr. Oliver Edtmair, Austria
Ms. Katarina Naydenova, Bulgaria

- **Special Prizes of Association of Asia Pacific Physical Societies**

Mr. Xiaoyu Xu, China
Ms. Do Thi Bich Hue, Vietnam

4. The following three leaders were designated by the International Board (IB) to serve as consultants to the local academic committee for grading the examination papers :

Prof. Dr. Vijah Singh (India), Dr. Niels Hartling (Denmark) and Dr. Matthew Verdon (Australia).

5. The President of IPhO reported the process and result of the election of IPhO Secretary of next term. Since there was only one candidate, Dr. Matthew Verdon (Australia), for the election of the new IPhO Secretary, according to the IPhO Statutes, the President officially announced that Dr. Matthew Verdon was accepted as the new Secretary of IPhO for the next five-year term from 2014 to 2019. The president expressed his deep gratitude towards the previous secretary, Prof. Dr. Ming-Juey Lin. Prof. Lin not only organized the 34th IPhO in 2003 in Taiwan, but also organized two times the APhO: in 2001 and 2010. Due to his efforts the Secretariat of the IPhO was able to find Thailand in 2011 and Kazakhstan in 2013 prepared to organize the IPhO instead of those who were not able to keep their promise to do so. Thanks to Prof. Lin the web site of the IPhO was

completely renewed and very well maintained. The president mentioned his close cooperation with Prof. Lin and thanked him for his balanced opinions and advises in, sometimes, difficult matters.

6. The International Board discussed a proposal on amending the IPhO Syllabus submitted by the “Syllabus Committee” consisting of the following six leaders, which was disseminated to all leaders in March :

Dr. Lasse Franti (Finland), Dr. Helmuth Mayr (Austria), Dr. Stefan Petersen (Germany), Dr. Matthew Verdon (Australia), Dr. Andrzej Kotlicki (Canada), Dr. Jaan Kalda (Estonia) and Dr. Robin Hughes (Great Britain).

In order to facilitate voting, the proposal was divided into three sections with two parts in each section. Each part of them was voted separately. According to the voting rules stipulated in the Statutes, the quorum is two thirds of those eligible to vote and a proposal is carried if two thirds or more of the number of the members of the International Board present at the meeting cast their votes in the affirmative. The number of leaders present at the meeting was 131 and the number of the needed affirmative votes for making a proposal carried was $\text{roundup}(2/3 \times 131) = 88$ votes.

The voting results are as follows:

A. For the **black** text: old material in the new format in the existing syllabus.

(A-1) Accept the **black** text in Physics Section:

Yes: 117 votes

No: 22 votes

(A-1) was carried.

(A-2) Accept the **black** text in Mathematics Section:

Yes: 120 votes

No: 30 votes

(A-2) was carried.

B. For the **Green** text: **not described** in the existing syllabus, but already represented in the past IPhO problems.

(B-1) Accept the **green** text in Physics Section:

Yes: 76 votes

No: 67 votes

(B-1) was rejected.

(B-2) Accept the **green** text in Mathematics Section:

Yes: 60 votes

No: 86 votes

(B-2) was rejected.

C.For the **Red** text: **new material** to the existing syllabus.

(C-1) Accept the **red** text in Physics Section:

Yes: 38 votes

No: 97 votes

(C-1) was rejected.

(C-2) Accept the **red** text in Mathematics Section:

No voting

(C-2) was rejected.

7. The International Board discussed a proposal on two amendments to the Article §8 and its Regulation of IPhO Statutes submitted by the President, Dr. Hans Jordens. The proposal suggested unifying the election procedures for all members of the Secretariat and expanding the current two-person Secretariat to three-person consisting of President, Secretary, and Treasurer. Both proposals were unanimously approved. Then, the President of IPhO announced that the elections for the new treasurer will be held during the IPhO 2015.
8. The President of IPhO reported the financial situation of the IPhO Foundation. The total income was 15,000 € and the expenditure from 2013 to 2014 was 7,209 €. The balance became 7,791€.
9. On behalf of all the participants, the President of IPhO expressed his gratitude to Mrs. Sholpan Kirabayeva (Director of the Republican Scientific Practical Centre, “Daryn”), Dr. Yernur Rysmagambetov, Prof. Askar Daveletov, and the members of Scientific Committee led by Prof. Tolegen Kozhamkulov, and all other members involved in organizing the IPhO2014 for excellent preparation and conduction of the 45th International Physics Olympiad. Deep thanks were also conveyed to the Ministry of Education and Science of Kazakhstan, Nazarbayev University, and all the sponsors, graders, guides and other people who contributed to the success of the Olympiad.
10. The Indian delegates disseminated printed materials about the 46th IPhO in 2015 to all the delegations and described present state of the preparatory works to ensure smooth organization of the next Olympiad.
11. At the Closing Ceremony of the Olympiad, on behalf of the organizers of the next International Physics Olympiad, Prof. Vijay Singh announced that the 46th International Physics Olympiad would be held in Mumbai, India from July 5 to 12, 2015 and cordially invited all the participating countries to attend the competition.

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Prof. Hans Jordens Prof. Ming-Juey Lin Mrs. Sholpan Kirabayeva
President of IPhOs Secretary of IPhOs Director of Republic Scientific and
Practical Center

Astana, Kazakhstan, July 19, 2014