



International Mathematics Competition 2016 (IMC 2016)
14 – 20 August 2016
Chiangmai, Thailand

1. Rationale

It has been generally acknowledged that mathematics is a basic tool to study every subjects. It is useful to make the better quality of life and develop human to be completed. In education, the Upper Primary Level as a part of the Basic Education provides students with skills of reading, writing and arithmetic. A program of mathematics learning should stimulate creativity and develop critical and analytical thinking which are the most important factors for providing students at the Primary level because it is a “Golden Period of Children Learning”, contributing to the learning development of the Secondary Level.

In the year 2016, the Ministry of Education, Thailand is honored to organize the International Mathematics Competition 2016: IMC 2016 in the Upper Primary Level and Lower Secondary Level. It is a great opportunity to cooperate with international development agencies by using strategy of international academic competition as a tool to drive quality improvement of students learning equivalent to international standards.

2. Objectives

- a) To organize an international mathematics competition for Key Stage II (Upper Primary Level) and Key Stage III (Lower Secondary Level) students.
- b) To create an academic atmosphere to motivate teachers and students to improve the teaching and learning of mathematics with emphasis on developing the higher order thinking skills.
- c) To establish cooperation with networks for the development of teaching and learning of mathematics with international and educational organizations
- d) To provide students from participating countries with opportunities to exchange mathematics knowledge and practice, and cultural experiences.
- e) To upgrade mathematics curriculum in school to be at par with the international standards.

3. Activities

- a) International Mathematics Competition.
 - Elementary Mathematics International Competition 2016 (IMC : EMIC 2016)
 - World Youth Mathematics Inter - City Competition 2016 (IMC : WYMIC 2016)
- b) International Symposium.
- c) International cultural exchange and city tour.

4. Proposed Itinerary

International Mathematics Competition 2016 (IMC 2016) will be held from 14 to 20 August 2016 At Chiangmai, Thailand

| Date | Student /Deputy Leader | Leader |
|----------------|--|---|
| 14 August 2016 | - Register - Create Exhibition | - Register - Meeting of Team Leaders |
| 15 August 2016 | - Create Exhibition - Opening Ceremony - Welcome Party | - Create Exhibition - Opening Ceremony - Welcome Party - Translation of Contest Papers |
| 16 August 2016 | - Puzzle Challenge - City Tour | - Meeting of Team Leaders - Translation of Contest Papers |
| 17 August 2016 | - Individual Contest - Team Contest | - International Symposium - City Tour |
| 18 August 2016 | - City Tour - Cultural Night | - Moderate Contest Paper - Cultural Night |
| 19 August 2016 | - Awarding and Closing - Farewell Party | - Awarding and Closing - Farewell Party |
| 20 August 2016 | - Departure for Homeland | - Departure for Homeland |

5. IMC 2016 Information

5.1 Participation and Application

Participation in the competition is by invitation. Any invited cities or countries are entitled to send up to 4 teams to participate in each division, but the organizer will be responsible for all official expenses only 2 teams in each division including accommodations, meals, and City Tour during the official period of the competition in Chiang Mai City, Thailand. Each team must comprise a maximum of 6 members: a team leader, a deputy leader, and 4 students,

Except the former host countries: Bulgaria, China, Hong Kong, India, Indonesia, Macau, Malaysia, Nepal, Philippines, South Africa, South Korea, Taiwan and Thailand, whose status as former hosts of any activities under the supervision of IMC Executive Board. The organizer will be responsible for all 4 teams.

5.2 Participant conditions

a) Key Stage II:

- Students must not be enrolled in secondary level or in any equivalent institutions;
- Students must have been born on or after 20 August 2002.
- Students who born between 20 August 2002 to 19 August 2003 must submit school certificate that he or she is a student of primary school.

b) Key Stage III:

- Students must have not been enrolled in upper secondary level or in any of equivalent institutions; and
- Students must have been born on or after 20 August 1999.
- Students who born between 20 August 1999 to 19 August 2000 must submit school certificate that he or she is a student of lower secondary school.

5.3 Divisions of Competition

IMC is composed of 2 divisions:

- a) Key Stage II Division (Upper Primary Level)
- b) Key Stage III Division (Lower Secondary Level)

5.4 IMC 2016 Official Languages

Thai, English, Chinese will be the official language of IMC 2016.

5.5 Competition papers

- a) There are two types of competition-individual and team.
- b) The participating country must send ten proposed problems, using Word format, written in English, for the Key Stage II contest and the Key Stage III contest; specifically, five for the individual contest and another five for the team contest on or before 15 May 2016, so that the IMC Academic Committee can consider and prepare competition papers. Team leaders must avoid using these proposed problems they have submitted in their own contestant training.
- c) Countries which do not have English as a native language will have to translate competition papers into their own language.

5.6 IMC 2016 Technical Committee

- Math experts from Thailand.
- Members of IMC Executive Board.

5.7 Awards and Prizes

- a) Individual Award: Gold, silver, bronze medals and merit certificates.
Approximately two-thirds of the contestants will receive Individual Awards, in the form of Gold, Silver and Bronze Medals as well as merit certificates, approximately in the ratio, 1 : 2 : 3 : 4.
- b) Team Award: Champion, 1st, 2nd runner-up trophies and honorable mention.
In the team contest, the total score of all contestants in each team is considered the team score. The teams are first ranked by their total scores. Ties are broken according to the scores of team contest problems, starting with the most difficult ones. Prizes will be given to one Champion, two 1st runners-up and three 2nd runners-up of different groups. Grouping will be done for 6 groups through drawing of lots.
- c) Group Award: Champion, 1st and 2nd runner-up trophies.
The highest score of the three contestants in each team for Individual Contest will be summed up. Prizes will be awarded to the top teams with the highest scores of each group in the form of one Champion, one 1st runners-up and one 2nd runners-up. In case of a tie, the team whose 4th contestant scores with higher marks in the Individual Contest wins.
- d) Overall Award: Grand Champion, 1st and 2nd runner-up trophies
The Overall Prize is awarded to the team that obtains the highest score computed as follows: the sum of the four-team members' score in the Individual Contest and of the team's score in the Team Contest. The maximum score is $4 \times 150 + 400 = 1000$ (for EMIC) and $4 \times 120 + 400 = 880$ (for IWYMIC). Grand Champion, 1st and 2nd runners-up will be awarded.
- e) Certificate: Every participant will receive a IMC 2016 certificate.

6. Medical Care for Participants

The organizer will provide accident insurance for all participants during the official period of the competition. The insurance will cover accidents leading to death or permanent disability of the body; therefore, all participants are advised to arrange medical insurance by themselves.

7. Period of Application and Procedure

- a) Each participating city or country has to apply for its participation. 31 March 2016
- b) Submitted a filled-up application 31 May 2016
- c) Submitted a proposed problem 15 May 2016
- d) Inform its arrival and departure schedules 1 July 2016
- e) Confirm itinerary 15 July 2016

Each participating city or country has to send for its participation in topic a to e through these e-mails imc2016.thailand@gmail.com, nijvadeekajorn@yahoo.com, ccmp@seed.net.tw.

8. Expenses (Official period 14 August - 20 August 2016)

- a) The organizer will be responsible for all official expenses only 2 teams in each division including accommodations, meals, and sightseeing during the official period of the competition in Chiang Mai City, Thailand (
- b) Except the former host countries in no.5.1 the organizer will be responsible for 4 teams.
- c) Exceeding participant, observers, parents and other accompanying persons have to pay US\$650 for the accommodation, meals, transportation, and sightseeing during the period of official competition.
- d) Each participating team is responsible for the travelling expenses from their homeland to Chiang Mai International Airport (CNX), including payment of visa fees and other expenses for their entry to Thailand.
- e) Any teams arriving in Chiang Mai from any other place in Thailand must be responsible for their transportation expenses. However, shuttle bus from Chiang Mai Airport to the contest venue is provided by the organizer.
- f) We encourage all the parents and other accompanying persons register as Official Delegates of IMC. For those who do not register as official delegates and interest to be participated in any activities of IMC, the organizer reserves the right to refuse or collect certain amount to them.

9. Responsible Office

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