

## **Regulations of the Students International Olympiad on Mechanism and Machine Science**

### **1. General Statements**

- 1.1. The Students International Olympiad (SIO) on mechanisms and Machines Science (MMS) is a public competition focusing on the creative application of acquired knowledge, abilities and skills in the field of MMS amongst students of universities and institutes from different countries.
- 1.2. The purposes o SIO are: to attract the young to a deeper knowledge of MMS; to propagate knowledge and achievements in this field; to display youthful talent in the forming of skilled potential for investigation and production activities; to increase IFToMM authority.
- 1.3. SIO is held every two years. Teams of universities and institutes from different countries/territories participate in ISO. Each country/territory – participant of Olympiad – may be presented by teams from individual universities or institutes, but there should be no more than 5 teams from one country\territory.
- 1.4. The working language of the Olympiad is English.

### **2. Governing Board of SIO**

- 2.1. The general government and organization of the Olympiad is performed by an Organizing Committee, approved both by IFToMM EC and appropriate organizations of the country holding the Olympiad. The Organizing Committee includes representatives of IFToMM, representatives from the principal university of the country, holding the Olympiad, and representatives of Olympiad participants.

The Organizing Committee performs the following functions: organizing the delivery of announcements; organizing the preparation of competitive assignments and evaluation criteria of their execution; determining the order of meetings of Olympiad; organizing cultural and educational programs.

- 2.2. The Organizing Committee forms the SIO panel of judges for the period of holding the current Olympiad. The panel includes highly-skilled experts of the principal university, tutors of the students' teams and invited scientists and experts. The Chairman of the panel of judges is appointed by the Organizing Committee.

The functions of the panel of judges include: checking and evaluation of assignments in accordance with evaluation criteria; the review of solutions and typical mistakes and explanation of evaluation principles of assignments, executed by the participants of the Olympiad; the final determination of winners. The meetings of the competition panel of judges and of the Organizing Committee are minuted.

### **3. Formation of Teams-Participants**

Each team participating in the Olympiad, consists of three persons from one university (institute)-participant, involving students who studied the mechanisms and machines science or similar science in the current or previous academic year. Each university may send only one team.

Each team is admitted to participate in the Olympiad on the basis of an application, sent to the Organizing Committee. Each university also sends a tutor to participate in the work of the Olympiad chosen from teaching instructors (employees) of the university.

The choice of students for each university team may be conducted on the basis of its own local selection competition. At the request of the university, the Organizing Committee may give recommendations regarding the conditions of conducting the selection competition.

#### **4. Procedure of the Olympiad**

4.1. The Organizing Committee sends announcements to potential participants in the Olympiad. The announcement contains details of the period of conduction of the Olympiad, the duration of the competition, the requirements of participants, the possibility of using some technical means and reference books, and parts of the science are given, which are to be included in assignments and questions of competition tasks.

4.2. The Olympiad consists of one round spread over three days.

The first day's events:

- opening the Olympiad
- welcoming speeches
- conducting competitions

The second day's events:

- plenary reports of key lecturers about modern achievements in the field of mechanism and machine science
- conducting competitions
- meeting of the panel of judges of the Olympiad
- deciding preliminary results.

The third day's events:

- deciding final results
- awarding the SIO competition winners
- cultural program
- closing the Olympiad

4.3. The solution of each task of a competition assignment is performed on a separate sheet of paper, provided by the panel of judges. Sheets for drafts are also provided by the panel of judges. Use of other sheets for notes, drawings and calculations is not allowed. Tutors of teams are not entitled to enter lecture-halls, where participants of Olympiad are engaged on their assignments.

4.4. Completed competition assignments are encoded, checked and evaluated by members of the panel of judges in the absence of participants. Representatives of the universities-participants may take part in the work of the panel of judges. Each task is checked by several members of the panel of judges. In case of disputable evaluations the final decision is made by the Chairman of the panel of judges. After approval and announcement of preliminary results, participants of the Olympiad have the right to appeal in a written form with indication of one or more specific assignments. The board of appeals include members of the panel of judges from the principal university and competent representatives of the Organizing Committee.

- 4.5. The summarizing of results of the Olympiad is conducted between teams and personally. The winner-team is defined according to the total score, obtained by two members of a team, who showed the best results personally.

The panel of judges determines the winners of the Olympiad on the basis of a general protocol of summarizing the results of the Olympiad. The number of personal and team prize places, and also additional information (for original decision, for original appearance, etc.) is defined by the panel of judges and by the Organizing Committee.

Personal winners and teams are awarded diplomas and valuable prizes. The participant in the Olympiad, who obtained the best score personally, is declared the Laureate of the Olympiad. If two or more candidates achieve equal top scores, additional criteria of selection are allowed, defined by the Organizing Committee.

- 4.6. The timetable and venue for conducting the Olympiad are established in accordance with the plan of IFToMM under the agreement of the promoting university.

## **5. Financing of the Olympiad**

The financing of participants of the Olympiad (transfer, accommodation in the hotel, food and organizational fee) is made by the sending party. The host party provides logistical support for the Olympiad and ensures terms of accommodation of invited scientists, members and tutors of teams, listed in the application of the university-participant.

In order to create the prize fund, to cover partially expenses for conducting the Olympiad, the Organizing Committee may establish an Olympiad fund, where contributions are accumulated from target assessments of states and organizations, from conducting the Olympiad and from other incomes of legal bodies and physical persons. Resources drawn from the fund are spent in accordance with the cost calculation, approved by the Organizing Committee.