

PREFACE

Dear friends!

We are happy to present you the Booklet of Preparatory problems. This year its structure was changed according to the recommendations of the International Steering Committee (ISC). Besides problems and worked solutions, you will find in the Booklet:

- Minutes of the ISC Meeting held in Moscow on December 7-10, 2006
- Proposed Agenda of the Business part of the 1st Jury Meeting
- The Syllabi for the practical and theoretical parts
- The Safety rules and recommendations set by the International Jury
- The hazard warning symbols, their designations and explanations, R-ratings and S-provisions

All these documents can be also found at our official website www.icho39.chem.msu.ru

In the Booklet you will also find the list of level 3 areas organizers would like students to be acquainted with. Note that this is not a simple enumeration of level 3 topics from the Syllabus. It is rather an informal presentation of fields of advanced difficulty that will be addressed at the forthcoming Olympiad. We publish the list to make your preparation more effective.

Note to mentors:

Please study the Minutes and Proposed Agenda carefully, since many important questions have been discussed at the ISC Meeting in December 2006, and the debates will be continued in Moscow.

We place a great importance on safety. In the section preceding the practical preparatory problems you will find safety precautions and procedures to be followed. At the registration in Moscow we will ask the Head mentors to sign a form stating that their students are aware of safety rules and adequately trained to follow them. Prior to the practical exam all students will have to read and sign safety instructions translated in their languages of choice.

Despite our great proof reading efforts, some mistakes and misprints are still possible. We appreciate your understanding and will be happy to get feedback. Please address your comments to secretary@icho39.chem.msu.ru

Note to students:

Members of the Science Committee really did their best to prepare interesting tasks. The set covers all major parts of modern chemistry, though most of tasks can be solved by applying a basic knowledge of chemistry. Answers to the questions that will be posted at the website by the end of May are very detailed to give you an opportunity to learn the backgrounds. Elaborating the tasks, we intended not only to announce particular chemistry fields, but also to make the material challenging and give you an idea of the structure and spirit of problems which you will see at the competition in July. We were also keen to provide you with sufficient material for training. Enjoy solving the tasks and please do not forget that **CHEMISTRY IS ART, SCIENCE, and FUN!**

Welcome to the International Chemistry Olympiad in Moscow!

Members of IChO-2007 Science Committee