

BMO²⁶09

President:

HONORARY ORGANIZING COMMITTEE

Žarko Obradović
Serbian Government,
Minister of Education
Radivoje Mitrović
State secretary at Ministry of Education
Veroljub Stevanović
Major of the city of Kragujevac
Aleksandar Lipkovski
President of the Managing Board of
Mathematical Society of Serbia
Ljubomir Protić
Director of Institute for
Advancement of Education
Miloljub Albijanić
Director of Institute for textbook publishing

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Chairman:

ORGANIZING COMMITTEE

Zoran Kadelburg

Vice-chairman:

Branislav Popović

Members:

Pavle Mladenović
Ratko Tošić
Slavica Petković
Ivan Nedeljković
Dragoljub Kostić
Jelena Banković-Gajić
Đorđe Krtinić
Miloš Stojaković
Marija Stanić
Ana Kaplarević-Mališić
Nenad Vulović
Aleksandar Ilić

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Chairman:

PROBLEM SELECTION COMMITTEE

Ratko Tošić
Dan Schwarz
Dušan Đukić

COORDINATION COMMITTEE

Chairman: Ratko Tošić

Members: Đorđe Dugošija
Ljubomir Čukić
Dan Schwarz
Nebojša Ikodinović
Marija Stanić
Đorđe Krtinić
Aleksandar Ilić
Marko Radovanović
Đorđe Baralić
Miloš Đorić
Marko Jevremović
Marija Jelić

INTERNATIONAL JURY

Chairman: Pavle Mladenović

Team Leaders: Edmond Pisha - Albania
Amer Krivošija - Bosnia and Herzegovina
Peter Boyvalenkov - Bulgaria
Theoklitos Paragyiou - Cyprus
Anargyros Felouris - Greece
Ilija Jovčeski - FYR Macedonia
Marcel Teleuca - Moldova
Đorđe Vujadinović - Montenegro
Bogdan Enescu - Romania
Miloš Stojaković - Serbia
Sahin Emrah - Turkey

OFFICIAL PARTICIPANTS

Albania (ALB)

BMO²⁶09

Contestants:

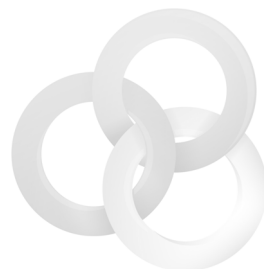
- ALB1 Andi Reçi
- ALB2 Ridgers Mema
- ALB3 Arbana Grembi
- ALB4 Niko Kaso
- ALB5 Erixhen Sula
- ALB6 Ornela Xhelili

Leader:

Edmond Pisha

Deputy leader:

Hektor Buza



Bosnia and Herzegovina (BIH)

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Contestants:

- BIH1 Beširević Admir
- BIH2 Bevrnja Alija
- BIH3 Radović Jelena
- BIH4 Saković Zlatan
- BIH5 Uljarević Vlado
- BIH6 Šarčević Franjo

Leader:

Amer Krivošija

Deputy leader:

Filip Morić



Bulgaria (BUL)

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Contestants:

- BUL1 Lyuboslav Panchev
- BUL2 Svetozar Stankov
- BUL3 Alexandar Makelov
- BUL4 Borislav Valkov
- BUL5 Galin Statev
- BUL6 Svetoslav Karaivanov

Leader:

Peter Boyvalenkov

Deputy leader:

Stoyan Boev



OFFICIAL PARTICIPANTS

Cyprus (CYP)

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Contestants:

- CYP1 Christos Anastassiades
- CYP2 Georgios Panagopoulos
- CYP3 Neofytos Apostolou
- CYP4 Maria Michaelidou
- CYP5 Charalambos Damianou
- CYP6 Talia Tseriotou

Leader:

Theoklitos Paragyiou

Deputy leader:

Dimitrios Karantanos



Greece (HEL)

BMO²⁶09

Contestants:

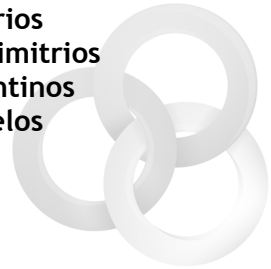
- HEL1 Giechaskiel Ilias
- HEL2 Logothesis Fotios
- HEL3 Pagonakis Dimitrios
- HEL4 Papadimitriou Dimitrios
- HEL5 Pappelis Konstantinos
- HEL6 Taratoris Evangelos

Leader:

Anargyros Felouris

Deputy leader:

Evangelos Zotos



FYR Macedonia (MKD)

BMO²⁶09

Contestants:

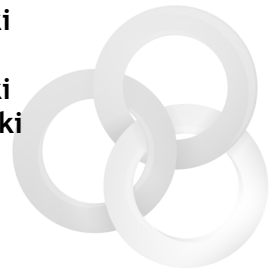
- MKD1 Bodan Arsovski
- MKD2 Filip Talimdžioski
- MKD3 Predrag Gruevski
- MKD4 Bojan Joveski
- MKD5 Stefan Stojčevski
- MKD6 Stefan Lozanovski

Leader:

Ilija Jovčeski

Deputy leader:

Simona Samardžiska



OFFICIAL PARTICIPANTS

Moldova (MDA)

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Contestants:

- MDA1 Iulian Gramatki
- MDA2 Ion Guzun
- MDA3 Andrei Iliasenco
- MDA4 Andrei Ivanov
- MDA5 Daniel Mogoreanu
- MDA6 Alexei Zubarev

Leader:

Marcel Teleuca

Deputy leader:

Valentina Ceapa



Montenegro (MNE)

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Contestants:

- MNE1 Nikola Milinković
- MNE2 Aleksandra Gogić
- MNE3 Rastko Pajković
- MNE4 Tanja Ivošević
- MNE5 Radovan Krtolica
- MNE6 Nevena Crnogorac

Leader:

Đorđe Vujadinović

Deputy leader:

Božidar Šćepanović



Romania (ROM)

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Contestants:

- ROM1 Mădălina Elena Persu
- ROM2 Andrei Florin Deneanu
- ROM3 Tudor Gabriel Pădurariu
- ROM4 Radu Bumbăcea
- ROM5 Omer Cerrahoglu
- ROM6 Horia Stefan Mania

Leader:

Bogdan Enescu

Deputy leader:

Mariean Andronache



OFFICIAL PARTICIPANTS

Serbia (SRB)

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Contestants:

- SRB1 Teodor von Burg
- SRB2 Luka Milićević
- SRB3 Dušan Milijančević
- SRB4 Vukašin Stojisavljević
- SRB5 Mihajlo Cekić
- SRB6 Stefan Stojanović

Leader:

Miloš Stojaković

Deputy leader:

Miloš Milosavljević



Turkey (TUR)

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Contestants:

- TUR1 Vefa Goksel
- TUR2 Fehmi Emre Kadan
- TUR3 Ufuk Kanat
- TUR4 Sureyya Emre Kurt
- TUR5 Melih Ucer
- TUR6 Umut Varolgunes

Leader:

Sahin Emrah

Deputy leader:

Mehmet Hamidoglu



INVITED GUESTS

Azerbaijan (AZE)

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Contestants:

- AZE1 Ilgar Ramazanli
- AZE2 Zulfu Aslanli
- AZE3 Elvin Aliyev
- AZE4 Kanan Malikov
- AZE5 Asiman Ilyasov
- AZE6 Emil Jafarli

Leader:

Fuad Garayev



City of Brno (BRN)

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Contestants:

- BRN1 Fiala František
- BRN2 Jemelík Hynek
- BRN3 Klaška David
- BRN4 Pokorný Tomáš
- BRN5 Ševeček Pavel
- BRN6 Zmek Bohuslav

Leader:

Jan Herman

Deputy leader:

Kobza Aleš



France (FRA)

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Contestants:

- FRA1 Thomas Budzinski
- FRA2 Jean Garcin
- FRA3 Ambroise Marigot
- FRA4 Sébastien Miquel
- FRA5 Jean-Francois Martin
- FRA6 Sergio Vega

Leader:

Claude Deschamps

Deputy leader:

Xavier Caruso



INVITED GUESTS

Italy (ITA)

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Contestants:

- ITA1 Bianchi Andrea
- ITA2 Bioletto Fabio
- ITA3 Del Nin Giacomo
- ITA4 Ghidelli Luca
- ITA5 Morandin Riccardo
- ITA6 Tamanini Tiziano

Leader:

Gobbino Massimo

Deputy leader:

Pernazza Ludovico



Kazakhstan (KAZ)

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Contestants:

- KAZ1 Klochkov Yegor
- KAZ2 Khajimuratov Nursultan
- KAZ3 Satylkhanov Kanat
- KAZ4 Muldagaliyev Birzhan
- KAZ5 Orazbayev Sanzhar
- KAZ6 Sailauov Tolebi

Leader:

Kungozhin Almaz

Deputy leader:

Iskakova Aliya



Serbia B (SRBB)

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Contestants:

- SRBB1 Aleksandar Vasiljković
- SRBB2 Igor Spasojević
- SRBB3 Filip Živanović
- SRBB4 Radomir Đoković
- SRBB5 Stevan Gajović
- SRBB6 Vukan Levajac

Leader:

Sladana Dimitrijević



INVITED GUESTS

Tajikistan (TJK)

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Contestants:

TJK1 Inomzhon Mirzaev

TJK2 Komron Giesiev

Leader:

Sabri Zerenturk



Turkmenistan (TKM)

BMO²⁶09

Contestants:

TKM1 Gaygysyz Hojanazarov

TKM2 Nazar Emirov

TKM3 Archyn Seyidov

TKM4 Kakamyrat Tushiyev

TKM5 Dovlet Akyniyazov

Leader:

Erol Aslan



United Kingdom (UNK)

BMO²⁶09

Contestants:

UNK1 Christopher Bellin

UNK2 Luke Betts

UNK3 Joseph Briggs

UNK4 Nathan Brown

UNK5 Ruth Franklin

UNK6 Sean Moss

Leader:

Vesna Kadelburg

Deputy leader:

Robin Bhattacharyya



DAILY SCHEDULE

Date	Hours	Contestants	Deputy leaders	Leaders
Tuesday April 28 th	08:00-13:00	Arrival and transfer to hotels		
	13:00-15:00	Lunch		
	15:00-19:00	Arrival and transfer to hotels		
	19:00-20:00	Dinner		
	20:00-21:00			1 st Jury meeting
Wednesday April 29 th	08:00-09:00	Breakfast		
	09:00-13:00	Sightseeing of Kragujevac		2 nd Jury meeting
	13:00-15:00	Lunch		
	15:00-19:00	Free time	Free time	3 rd Jury meeting
	19:00-20:00	Dinner		
Thursday April 30 th	07:15-08:15	Breakfast		
	09:00-09:30	Opening ceremony		
	10:00-14:30	Contest	Answering questions (10:00-10:30) and cocktail party	
	14:30-15:30	Lunch		
	15:30-18:00	Free time		Free time
	18:00-19:00			Receiving the papers
	19:00-20:00	Dinner		
Friday May 1 st	07:30-08:30	Breakfast		
	08:30-13:00	Excursion to Oplenac	Checking the papers or Excursion to Oplenac	
	13:00-14:00	Lunch		
	14:00-19:00	In organization of students of the high school	Coordination	
	19:00-20:00	Dinner		

DAILY SCHEDULE

Date	Hours	Contestants	Deputy leaders	Leaders
Saturday May 2 nd	08:00-09:00	Breakfast		
	09:00-13:00	In organization of students of the high school	Coordination	
	13:00-14:00	Lunch		
	14:00-18:00	In organization of students of the high school	Coordination	
	18:00-19:00		Final Jury meeting	
	19:00-20:00	Dinner		
Sunday May 3 rd	07:30-08:30	Breakfast		
	08:30-17:00	Excursion to Resava cave and Resava monastery with lunch		
	18:00-19:00	Closing ceremony		
	19:00-23:00	Farewell dinner		
Monday May 4 th	08:00-09:00	Breakfast		
		Departure		

BMO 26TH 09

REGULATIONS of the BALKAN MATHEMATICAL OLYMPIAD

(35 articles)

These regulations were approved by the Jury of the 17th Balkan Mathematical Olympiad held at Cisinou, Republic of Moldova on May 7, 2000 (35 articles).

1. The aims of the Balkan Mathematical Olympiad (BMO) include:
 - a) The challenging, encouragement and development of mathematically gifted school students in all participating member countries;
 - b) The fostering of friendly relationships among students and teachers of the member countries;
 - c) The creation of opportunities for the exchange of information on school syllabuses and practice within the member countries;
 - d) The gaining of experience and preparation for the IMO.
2. The official language of the BMO is English.
3. The Balkan Mathematical Olympiad is organized once every year within the period April 25th to May 10th. The member countries of BMO are: Albania, Bosnia and Herzegovina, Bulgaria, Cyprus, Greece, FYR Macedonia, Moldova, Montenegro, Romania, Serbia and Turkey. Care should be taken so that no country will be hindered from participating in the BMO because of major religious holidays.
4. The BMO can only be organized in one of the member countries and only member countries can officially participate in the contest. The host country can also invite other countries as unofficial participants.
5. The BMO Jury shall consist of all leaders of the member countries and its Chair person, appointed by the host country.
6. New member countries have to be accepted unanimously by the Jury at least one year before participation.
7. All decisions by the Jury are based on simple majority unless it is otherwise specified. The Chairman may vote only when a tie break is needed.
8. If a member country is absent from BMO contest for reasons beyond its control, then the member country can veto the approval of a new member country within three months after the last BMO meeting.

9. If a member country cannot send a team of contestants to a certain BMO organization, it may send a representative who could participate in the Jury with the right to vote.
10. Each year there will be a BMO Committee consisting of three members: Country organizing the current or coming BMO (Chair), Country which has organized the BMO the year before, Country to organize the BMO the following year. The new BMO Committee becomes effective immediately after the end of the closing ceremony of the last BMO.
11. Deputy leaders may participate in the Jury and they may also replace their leaders in his/her absence.
12. The minutes of the Jury meeting are approved at the last meeting of the Jury and before the closing of BMO. The Chair person of the Jury of the BMO is obliged to give the minutes of the Jury meetings to all leaders and to send them to the member countries, which are absent from the BMO, within three months after the closing of the BMO.
13. Each member country has one vote in the Jury.
14. The Jury may consider and decide on any matter raised, which is not covered by any regulation item.
15. Additional regulations may be added by the Jury, in which case at least two thirds majorities is needed. New regulations become effective beginning the next BMO.
16. The Chair person of the Jury may call as many day meetings as he/she deems necessary during a BMO or when one third of the member countries request an additional Jury Meeting.
17. Proposals to organize a BMO are made during a Jury meeting and approved by the Jury. The Jury shall always approve the host countries of the next two BMO's. A member country is eligible to organize a BMO provided that it has participated at least three times in BMO. The proposal shall be submitted by the team leader of member country who also has to show written proof of support by an organization or institution from his/her country.
18. Invitation should be sent by the host country of BMO with responsibility of the Chair person of the BMO Committee at least three months before the contest day and should include:
 - a) An invitation up to six students from each country. Students must be high school students attending high school, but not exceeding the age of 20;

- b) An invitation for up to two teachers (leader and deputy leader);
 - c) A call for up to five problem proposals with a deadline of one month before the contest day;
 - d) The Chair person of the following BMO may be invited in addition to the above mentioned.
19. The BMO contest shall take place during one day and should have duration of 4.5 hours continuously. The contest paper shall consist of four problems, each carrying 10 pts for a total of 40 pts maximum.
20. Each country except the host country can propose up to five problems and they should be mailed to the Chair person of the Jury at least one month before the day of the contest. The proposed problems should include their solutions and the filed mathematics covering. The proposed problems are given to the Problem Selection Committee appointed by the Chair person of the Jury.
21. The Problem Selection Committee should make a short list of at most 50, but not less than 20 of the problems proposed and present it to the Jury for a final problem selection. The rest of the proposed problems are kept confidential and returned to the team leader of the country which has proposed them.
22. The days before the contest, the leaders, the Jury and members of the Problem Selection Committee shall meet and accommodate at a place different and at distance from the place where students stay. During this meeting, the final contest paper will be decided and approved, translated into different language and approved and multiplied for the contest. No member of this Committee may communicate by any means with any person other than the member of this meeting and no telephone calls will be allowed until the contest begins. If it is found absolutely necessary for someone to make a phone call, then this will have to be done at the presence of at least two leaders from different countries other than one organizing the BMO.
23. Each student contestant may submit solutions in the language of his/her choice. Solutions may be written only on paper provided by the Organizing Committee.
24. Each student contestant must work independently. Violation of this provision will result in disqualification of the student contestant from the BMO. The organizing country should make provisions for preventing the use of any dishonest means during the contest.
25. Student contestants are not permitted to bring any books or papers or calculators into the examining rooms. The only instruments permitted in the

contest are writing and mechanical drawing instruments. Any student contestant making use of any prohibited item may be disqualified from the BMO.

26. During the first half-hour only of the examination period, each student contestant may submit, on special notepaper provided, written questions for considerations of the Jury. Each paper with such questions shall be given, first to the Chair person of the Jury, and then to the team leader of the country from which the student comes. The leader will translate the question into English and will propose an answer. If the Jury approves the answer, the leader will write the answer on the paper with the student contestant question. The paper shall be given to the Chair person of the Jury for verification before it is returned to the student contestant who submitted the question.
27. The student contestants's solutions will be assessed first by their leader and deputy leader. The official scores are decided by the coordinators. The leader and the head problem coordinator shall agree on the score for each problem for each contestant. This score shall be recorded on an official score sheet and signed by the leader and the head problem coordinator.
28. A leader may appeal an assigned score for a specific problem to the Chief Coordinator. If the two cannot agree, the appeal and the reason for rejecting the appeal will be forwarded to the Jury for a final decision.
29. For each problem the coordination of the solutions by the contestants from the organizing country shall be verified in the presence of the team leader from the country, which submitted the problem.
30. The type of prizes to be awarded is: first prizes, second prizes and third prizes. Special prizes may be awarded for particularly meritorious and elegant solutions. A certificate of Honourable Mention shall be awarded to each student contestant who does not receive a prize and who has obtained full marks on at least one question. The total number of prizes will not exceed two thirds of the total number of student contestants participating and the first, second and third prizes will be distributed in a ratio closely approximating 1:2:3. A Certificate of Participation shall be given to all student contestants.
31. The schedule of a BMO should not exceed 6 nights and may look like the following:
 - 1st day: Arrival and Jury meeting.
 - 2nd day: Opening Ceremony and Jury meeting for problem selection
 - 3rd day: Contest Day. Papers are xeroxed, approved by the Chair person of the Jury and given to the leaders.

4th day: Marking by leaders and/or deputy leaders. Excursion. Beginning of coordination.

5th day: Coordination (all day). Free day for students.

6th day: Closing Ceremony. Farewell Dinner.

7th day: Departure.

32. Each organizing country must ensure food and accommodation for all invited participants.
33. No country can violate or modify a regulation without the agreement of all member countries.
34. Every member country should try to organize a BMO once every n years, where n is the number of member countries.
35. The country organizing a BMO or Junior BMO may invite guest teams to participate, either from its own country or from another country provided that the guest team is participating unofficially and outside the BMO or JBMO competition. In order to invite such guest teams the organizing country has to ask the members for a “no objection” reply at least two months before the competition takes place and the member countries have to reply within a week. In case a member country objects to the invitation of a guest team then such a team cannot be invited.

