



**IMC**

# 12th International Mathematics Competition for University Students

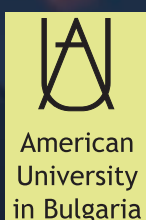
22<sup>nd</sup> - 28<sup>th</sup> July, Blagoevgrad, Bulgaria

<http://www.imc-math.org/>

**2005**



**Organized by**  
University College London  
American University in Bulgaria



**Sponsors**

American University in Bulgaria  
Princeton University Press  
Wolfram Research



**President**

**Professor John E. Jayne**  
Department of Mathematics, University College London  
Gower Street, London WC1E 6BT, UK  
Tel: +44 (0)20 7679 7322; Fax: +44 (0)20 7419 2812  
e-mail: [j.jayne@imc-math.org](mailto:j.jayne@imc-math.org)  
<http://www.ucl.ac.uk/~ucahjej/>

**Competition Coordinator**

**Dr Chrisina Draganova**  
[c.draganova@imc-math.org](mailto:c.draganova@imc-math.org)

Every participating university is invited to send several students and one teacher. Individual students are welcome. The competition is planned for students completing their first, second, third or fourth year of university education and will consist of 2 Sessions of 5 hours each. Problems will be from the fields of Algebra, Analysis (Real and Complex) and Combinatorics. The working language will be English.

**Over the last eleven competitions we have had students from the following one hundred and ten universities**

Amirkabir University of Technology (Tehran), Universidad de los Andes (Colombia), University of Athens, Babes-Bolyai University (Romania), Institut Teknologi Bandung (Indonesia), Belarusian State University, University of Belgrade, Bessenyei College Nyiregyhaza (Hungary), Bina Nusantara University (Indonesia), University of Birmingham, Blagoevgrad South West University (Bulgaria), University of Bonn, University of Bordeaux, International University of Bremen, Université Libre de Bruxelles, University of Bucharest, Cambridge University, Charles University (Prague), Universidad Nacional de Colombia (Bogota), Universidad Nacional de Colombia (Medellin), Comenius University (Slovakia), Complutense University of Madrid, Nicholas Copernicus University (Poland), University College Cork (Ireland), University of Craiova (Romania), University of Cyprus, Ecole Polytechnique (Paris), ENSAE (Paris), Ecole Normale Supérieure (Paris), Ferdowsi University (Iran), FMIPA ITB (Indonesia), Free University Berlin, Gradno State University (Belarus), Ben Gurion University, Helsinki University, Helsinki University of Technology, Humboldt University Berlin, IME - Instituto Militar de Engenharia (Brazil), Intercollege - Cyprus, University of Iowa, ITA - Instituto Tecnológico de Aeronáutica (Brazil), Jagiellonian University (Poland), University of Jerusalem, VTU "Todor Kableshkov" (Bulgaria), Kharkov State University (Ukraine), Kiev Polytechnic University, University of Kishineu (Moldova), Kyiv Taras Shevchenko University, Kyiv-Mohyla Academy, University of Ljubiana (Slovenia), University College London, Lorand Eotvos University (Hungary), Masaryk University Brno (Czech Republic), Massachusetts Institute of Technology, Max-Planck Institute (Germany), Adam Mickiewicz University (Poland), Moldova State University, Mongolian University of Science and Technology, National University of Mongolia, Moscow State Pedagogical University, Moscow State University, Moscow Institute of Physics and Technology, University of Murcia (Spain), Antonio Narino University (Colombia), University of Nis (Serbia), North University of Baia Mare (Romania), Odessa National Mechnikov University (Ukraine), University of Oradea (Romania), University of Osijek (Croatia), Oxford University, University of Paris VI, Petru Maior University (Romania), Plovdiv University (Bulgaria), Princeton University, Rousse University (Bulgaria), Saints Cyril and Methodius University (Macedonia), Sapientia - Hungarian University of Transilvania, Shahid Beheshti University (Iran), Sharif University of Technology (Iran), Shiraz University (Iran), University of Shoumen (Bulgaria), University of Sofia, Stuttgart University, Sumy State University, University of Szczecin (Poland), University of Szeged (Hungary), University of Tartu (Estonia), Teacher Training University Tehran, Technical University Budapest, Technical University Berlin, Leibniz-Institut für Mathematik, Technical University of Cluj (Romania), Technion Institute (Israel), Instituto Tecnológico de Aeronáutica - ITA (Brazil), Tel-Aviv University, University of Timisoara (Romania), University of Turku (Finland), Universidade Federal da Bahia (Brazil), Universidade Federal de Alagoas (Brazil), UFSC - Universidade Federal de Santa Catarina (Brazil), Universidade Federal do Ceará - UFCE (Brazil), Universidade Federal do Piauí - UFPI (Brazil), UFRJ - Universidade Federal do Rio de Janeiro (Brazil), UNICAMP (Brazil), University of Valencia (Spain), University of Veliko Turnovo (Bulgaria), Vilnius University (Lithuania), Warsaw University, University of Warwick, University of the West Indies, University of Zagreb (Croatia), University of Zaragoza (Spain)

**The following thirty three countries have been represented**

Barbados, Belarus, Belgium, Brazil, Bulgaria, Colombia, Croatia, Cyprus, Czech Republic, Estonia, Finland, France, Germany, Greece, Hungary, Indonesia, Iran, Ireland, Israel, Lithuania, Macedonia, Moldova, Mongolia, Poland, Romania, Russia, Serbia, Slovakia, Slovenia, Spain, Ukraine, United Kingdom, United States