



UCL

University College London



Eötvös Loránd University



Budapest University of Technology and Economics (BME)

SPONSORS



16th IMC

International Mathematics Competition for University Students

25th - 30th July, 2009

Budapest, Hungary

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

Co-organized by

University College London, Eötvös Loránd University, Budapest, and Budapest University of Technology and Economics



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), Combinatorics and Geometry. The working language will be English.



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@ucl.ac.uk
<http://www.ucl.ac.uk/~ucahjej/>

Competition Coordinator

Dr Christina Draganova
University of East London
c.draganova@uel.ac.uk



Over the past fifteen competitions we have had students from the following one hundred and seventy four institutions:

"Al. I. Cuza" University (Romania), Academia de Studii Economice (Romania), Adam Mickiewicz University (Poland), American University in Bulgaria, Amirkabir University of Technology (Tehran), Antonio Narino University (Colombia), Babes-Bolyai University (Romania), Belarusian State University, Ben Gurion University, Bessenyei College Nyiregyhaza (Hungary), Bina Nusantara University (Indonesia), Blagoevgrad South-West University (Bulgaria), Cambridge University, Charles University (Prague), Comenius University (Slovakia), Complutense University of Madrid, Dnepropetrovsk National University, Donetsk National University, Ecole Normale Supérieure (Paris), Ecole Polytechnique (Paris), ENSAE (Paris), Eotvos Lorand University (Budapest), Ferdowsi University (Iran), FMIPA ITB (Indonesia), Free University Berlin, Gajah Mada University (Indonesia), Georg-August-University Goettingen, Ghent University, Gradno State University (Belarus), Hanoi University of Science (Viet Nam), Hanyang University (South Korea), Helsinki University of Technology, Helsinki University, Humboldt University Berlin, IME - Instituto Militar de Engenharia (Brazil), Indonesia University of Education, Institut Teknologi Bandung (Indonesia), Instituto Tecnológico de Aeronautica - ITA (Brazil), Intercollege - Cyprus, International University of Bremen, Isfahan University of Technology, ITA - Instituto Tecnológico de Aeronautica (Brazil), Jacobs University (Bremen), Jagiellonian University (Poland), Kaist (Singapore), Karshi State University, Kharkov State University (Ukraine), Kiev Polytechnic University, K.N. Toosi University of Technology (Iran), Kyiv Taras Shevchenko University, Kyiv-Mohyla Academy, K.U. Leuven (Belgium), Ludwig-Maximilians-Universität München, Lviv Ivan Franko National University, Masaryk University Brno (Czech Republic), Massachusetts Institute of Technology, Max-Planck Institute (Germany), Moldova State University, Mongolian University of Science and Technology, Moscow Institute of Physics and Technology, Moscow State Pedagogical University, Moscow State University, Nanyang Technological University (Singapore), National Technical University of Athens, National University of Shipbuilding (Ukraine), National University of Mongolia, National University of Singapore, New Jersey Institute of Technology, Nicholas Copernicus University (Poland), North University of Baia Mare (Romania), Norwegian University of Science and Technology, Odessa National Mechnikov University (Ukraine), Open University, Israel, Oxford University, Petru Maior University (Romania), Plovdiv University (Bulgaria), Princeton University, PUC-Rio, Rheinische Friedrich-Wilhelms-Universität Bonn, Rousse University (Bulgaria), Ruhr-Universität Bochum, Saints Cyril and Methodius University (Macedonia), Samarquand State University (Uzbekistan), Sapientia - Hungarian University of Transilvania, Sapientia EMTE Corunna (Romania), Shahid Beheshti University (Iran), Sharif University of Technology (Iran), Sofia University (Iran), Sofia University "St Kliment Ohridski", State Engineering University of Armenia, Stuttgart University, Sumy State University, Tampere University of Technology, Teacher Training University Tehran, Technical University Budapest, Technical University of Cluj (Romania), Technical University-Berlin Fachbereich Mathematik, Technical University - Gabrovo (Bulgaria), Technion Institute (Israel), Tel-Aviv University, Trinity College Dublin, Tudor Vianu National College, UFRJ - Universidade Federal do Rio de Janeiro (Brazil), UFSC - Universidade Federal de Santa Catarina (Brazil), UNICAMP (Brazil), University of Szczecin, Universidad Complutense de Madrid, Universidad Nacional de los Andes (Colombia), Universidad del Valle (Colombia), Universidad Nacional de Colombia (Bogotá), Universidad Nacional de Colombia (Medellin), Universidad Politecnica de Catalunya, Universidad Pontificia Comillas (Spain), Universidade "Agostinho Neto" (Angola), Universidade Federal da Bahia (Brazil), Universidade Federal de Alagoas (Brazil), Universidade Federal de Campina Grande (Brazil), Universidade Federal do Ceara - UFCE (Brazil), Universidade Federal do Piaui - UFPI (Brazil), Universidade Federal do Rio de Janeiro, Universitas Gajah Mada (Indonesia), Universitas Indonesia, Universitatea Politehnica Bucuresti, Universite Libre de Bruxelles, Universiteit Gent, Universiteit Leiden, Universiteit Utrecht, University College Cork (Ireland), University College London, University of Amsterdam, University of Athens, University of Belgrade, University of Birmingham, University of Bonn, University of Bordeaux, University of Bucharest, University of Cork, University of Craiova (Romania), University of Cyprus, University of Ghana, University of Gdansk (Poland), University of Granada, University of Iowa, University of Jerusalem, University of Kishineu (Moldova), University of Ljubljana (Slovenia), University of Manchester, University of Michigan, University of Murcia (Spain), University of Nis (Serbia), University of Novi Sad, University of Oradea (Romania), University of Osijek (Croatia), University of Oslo, University of Paris VI, University of Sao Paulo, University of Shoumen (Bulgaria), University of Sofia, University of Szczecin (Poland), University of Szeged (Hungary), University of Tartu (Estonia), University of the West Indies, University of Timisoara (Romania), University of Turku (Finland), University of Valencia (Spain), University of Yeliko Turnovo (Bulgaria), University of Vienna, University of Warwick, University of Zagreb (Croatia), University of Zaragoza (Spain), Utrecht University, Vilnius University (Lithuania), VTU "Todor Kableshkov" (Bulgaria), Warsaw University, West University Timisoara (Romania), Yerevan State University (Armenia)

The following forty-three countries have been represented: Angola, Armenia, Austria, Barbados, Belarus, Belgium, Brazil, Bulgaria, Colombia, Croatia, Cyprus, Czech Republic, England, Estonia, Finland, France, Germany, Greece, Hungary, Indonesia, Iran, Ireland, Israel, Lithuania, Macedonia, Moldova, Mongolia, Netherlands, Norway, Poland, Republic of Korea, Romania, Russia, Serbia, Singapore, Slovak Republic, Slovenia, South Korea, Spain, Ukraine, Uzbekistan, United States, Vietnam