

# EUROMATH 2016 PROGRAMME

## Wednesday, 30 March 2016

<b>All day</b>	<b>Arrivals</b>		
<b>Place</b>	Hotel Grand Hotel Palace , 305-307 Monastiriou str, Thessaloniki, Greece Lobby Area		Room ILIDA
18:00 – 20:00	<b>Registration</b> for Conference participants and Competition Finalists <b>MATHPoster Design Competition</b> - Submission of printed designs		Le-MATH Course

## Thursday, 31 March 2016

Place	Hotel Lobby	Room OLYMPIA B & C	Room KALLIPATEIRA	Room ILIDA
All day		<i>MATHPresentation Competition – Evaluation</i>		
<i>Coordinators</i>		<i>A. Savvides</i>	<i>K. Skotinou</i>	<i>C. Papagiannis</i>
09:00 – 09:20	<b>REGISTRATIONS</b> for Conference participants and competition finalists <b>MATHPoster Design                      COMPETITION</b> Submission of printed designs			Le-MATH Course
09:20 – 09:40				Le-MATH Course
09:40 – 10:00		<b>How mathematics and music are related,</b> Andrea Papacharalambous and Jovana Janjic, Pascal English School, Cyprus	<b>Bertrand duopoly and oligopoly,</b> Petko Petkov Kazandzhiev, High School of Mathematics and Natural Sciences “Vassil Drumev”, Bulgaria	Le-MATH Course
10:00 – 10:20		<b>Music and Mathematics,</b> Elina Filipoglou, Konstantinos Tsomos, Stefanos Michailidis, Hellenic-French School Kalamari, Greece	<b>Mathematics and Music,</b> Ana Marija Hadvija, Centar Izvrsnosti Koprivnica, Croatia	Le-MATH Course
10:20 – 10:40		<b>Mathematics and Sports,</b> Ines Kolar, Centar Izvrsnosti Koprivnica, Croatia	<b>Extended Euclidean algorithm,</b> Martin Dobrinov Ivanov and Petko Petkov Kazandzhiev, High School of Mathematics and Natural Sciences “Vassil Drumev”, Bulgaria	Le-MATH Course
10:40 – 11:00	<b>MATH BREAK</b>			

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Place	Hotel Lobby	Room OLYMPIA B & C	Room KALLIPATEIRA	Room ILIDA
<i>Coordinators</i>		<i>A. Savvides</i>	<i>A. Demetriou</i>	<i>C. Papagiannis</i>
11:00 – 11:20		<b>Mathematics and Nature</b> , Kaja Sertic, Centar Izvrsnosti Koprivnica, Croatia	<b>The contributions of female mathematicians</b> , Abigail Ambon, The Heritage Private School, Cyprus	<a href="#">Le-MATH Course</a>
11:20 – 11:40		<b>Math in comic books</b> , Filip Jakupec, Centar Izvrsnosti Koprivnica, Croatia	<b>Exploring fractional dimensions</b> , Konstantinos-Marios Konstantinou and Emmanouil Vlassis, The Moraitis School, Athens, Greece	<a href="#">Le-MATH Course</a>
11:40 – 12:00	<b>REGISTRATIONS</b> for Conference participants and competition finalists <b>MATHPoster COMPETITION</b> Submission of printed designs	<b>Mathematics and Economy</b> , Lana Deveric, Centar Izvrsnosti Koprivnica, Croatia	<b>Domino Tilings and Linear Recurrent Sequences</b> , Tsvetelina Milkova Karamfilova, “Petko Rachov Slaveikov” Secondary School, Bulgaria	<a href="#">Le-MATH Course</a>
12:00 – 12:20		<b>The art of Negotiation</b> , Andrea Papacosta, Angeliki Vassila, Angelos Artemiou, Charalambos Mavrommatis, Georgia Leonidou, Katerina Vlachou and Sotiris Georgiou, The Grammar School, Nicosia, Cyprus	<b>Mathematics and Life</b> , Irina Vuckovic, Centar Izvrsnosti Koprivnica, Croatia	<a href="#">Le-MATH Course</a>
12:20 – 12:40		<b>Research on the Kaprekar’s Contact</b> , Petko Petkov Kazandzhiev and Martin Dobrinov Ivanov, High School of Mathematics and Natural Sciences “Vassil Drumev”, Bulgaria	<b>History of Mathematics</b> , Ena Jantolek and Nikolina Suka, Centar Izvrsnosti Koprivnica, Croatia	<a href="#">Le-MATH Course</a>

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Coordinators		<i>A. Savvides</i>	<i>A. Demetriou</i>	<i>C. Papagiannis</i>
12:40 – 13:00		<p style="color: blue;">Next generation science challenges using digital and social Media to make science education and careers attractive for young people,</p> <p>Eleni Boulomyti, European Students' Union, Belgium</p>	<p>Mathematics and Music, Marko Sever and Tomislav Campa, The first Primary School, Croatia</p>	Le-MATH Course
13:00 – 15:00	<p><b>Lunch Break, Place: BALL Room A &amp; B</b></p> <p>Coupons offered by TopKinisis Travel to those who booked accommodation through them. Additional coupons for sale available at the registration</p>			
Coordinators		<i>C. Skotinou</i>	<i>S. Savva</i>	<i>C. Papagiannis</i>
15:00 – 15:20	<p><b>REGISTRATIONS</b> for Conference participants and competition finalists</p> <p><b>MATHPoster COMPETITION</b> Submission of printed designs</p>	<p><b>Mathematics and life,</b> Antonela Podravec and Klara Jakopanec, Centar Izvrnosti, Koprivnica, Croatia</p>	<p><b>3...2....1 Action,</b> Irene Athanasiadou, Andreas David, Melina Hadjidemetriou and Elena Xinari, The GC School of Careers, Cyprus</p>	Le-MATH Course
15:20 – 15:40		<p><b>Mathematics and Finance,</b> Leona Salihovic, The first Primary School, Croatia</p>	<p><b>Mathematics and Sports,</b> Tin Prvcic, Centar Izvrnosti, Koprivnica, Croatia</p>	Le-MATH Course
16:00 – 17:00	<p style="color: blue;"><b>Opening Ceremony</b> of the EUROMATH Conference and Le-MATH Competitions Room OLYMPIA B&amp;C</p>			
17:00 – 17:30	<p style="color: black; font-weight: bold;">C O F F E E B R E A K OFFERED BY THALES FOUNDATION</p>			
Coordinator	<i>F. Panayi</i>			
17:30 – 20:00	<p style="color: blue;">MATHeatre Europe Competition – Rehearsals (Room Olympia B&amp;C) MATHFactor Europe Competition – Rehearsals (Room Olympia B&amp;C) Register for your turn.</p>			


# EUROMATH 2016 PROGRAMME

Friday, 1 April 2016				
Place	Hotel Lobby	Room OLYMPIA B & C	Room KALLIPATEIRA	Room OLYMPIA A
<i>Coordinators</i>		<i>C. Papagiannis</i>	<i>S. Savva</i>	<i>Gr. Makrides, A. Demetriou</i>
09:00 – 09:20	<b>REGISTRATIONS</b> for Conference participants and competition finalists <b>MATHPoster COMPETITION</b> Submission of printed designs		<b>Mathematics and Planning an Excursion,</b> Ziva Zigmund and Lara Malovic, The first Primary School, Croatia	<b>The EUROMATH Conference and future</b> Round table discussion with the teachers to exchange ideas
09:20 – 09:40			<b>Mathematics in Cheerleading,</b> Sofija Scapec and Franka Sarkanji, The first Primary School, Croatia	<b>The EUROMATH Conference and future</b> Round Table
09:40 – 10:00		<b>Mathematics in Hollywood,</b> Sofronis Michael and Petros Vassiliades, The English School of Nicosia, Cyprus	<b>Mathematics and Nature,</b> Antun Hemetek, Centar Izvrnosti Koprivnica, Croatia	<b>The EUROMATH Conference and future</b>
10:00 – 10:20		<b>Time flies,</b> Axel Sandgrena and Zannah Walker, Marks gymnasieskola, Kunskapens Hus, Sweden	<b>Adjusted Winner A Fair division method,</b> Antigoni Katsantoni, Dionisis Lykourezos, Pavlos Serpieris, Marina Andriotaki and Giorgos Alexopoulos, The Moraitis School, Athens, Greece	<b>WORKSHOP 1</b> <b>Graph Theory and its applications,</b> MSc. Andreas Demetriou , Cyprus Mathematical Society, MSc. Michalis Gavrielides , Teacher of the Grammar School, Cyprus
10:20 – 10:40		<b>Cryptography in the modern age,</b> Theano Xirouchaki, The Moraitis School, Athens, Greece	<b>Flintstones, cannot balls and Calculus,</b> Dusan Ivanic, Milutin Studen and Mirjana Jovanovic, "Isidora Sekulic" Grammar School, Serbia	<b>Graph Theory and its applications,</b> MSc. Andreas Demetriou , Cyprus Mathematical Society, MSc. Michalis Gavrielides , Teacher of the Grammar School, Cyprus
10:40 – 11:00		<b>Easy to state-difficult to solve famous problems in arithmetic,</b> Despina Damianou and Ioannis Damianou, Linopetra Gymnasium, Arch. Makarios Gymnasium, Cyprus	<b>Game Theory-Auctions, Ioannis Antoniou,</b> Petros Bentos, Claudia Dumbrava, Nikos Karakatsanis, Konstantina Mountaniali and Pantelis Xagoraris, Zanneio Experimental Lyceum of Piraeus, Greece	<b>Graph Theory and its applications,</b> MSc. Andreas Demetriou , Cyprus Mathematical Society, MSc. Michalis Gavrielides, Teacher of the Grammar School, Cyprus
11:00 – 11:20		<b>MATH BREAK</b>		

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Place	Hotel Lobby	Room OLYMPIA B & C	Room KALLIPATEIRA	Room OLYMPIA A
<i>Coordinators</i>		<i>A. Savvides</i>	<i>S. Savva</i>	<i>F. Panayi</i>
11:20 – 11:40	<b>REGISTRATIONS</b> for Conference participants, MATHeatre and MATHFactor finalists <b>MATHPoster COMPETITION</b> Submission of printed designs	<b>Rubik's Cube: A colourful Journey,</b> Daria Tolmacheva, Tatiana Sokolova and Kseniia Bakuleva, The Heritage Private School, Cyprus	<b>Mathematics and Life,</b> Karlo Rajn, Centar Izvrsnosti, Koprivnica, Croatia	<b>WORKSHOP 2</b> <b>PRE-REGISTRATION REQUIRED</b> <b>Cryptology: The art of secure                      communication, Panos Kartsidis,</b> Center for Talented Youth Greece
11:40 – 12:00		<b>Mathematics in the kitchen,</b> Angela Misak and Mirna Loncaric, The first Primary School, Croatia	<b>Maths through their eyes,</b> Athina Johnson, Constantinos Kalorkotis, Maria Michaelidou and Nicole Panayiotou, The GC School of Careers, Cyprus	<b>Cryptology: The art of secure                      communication, Panos Kartsidis,</b> Center for Talented Youth Greece
12:00 – 12:20		<b>The History of Pi,</b> Nikolina Jovisic and Jankovic Vanja, Karlovci Philological High School, Serbia	<b>And we capture math,</b> Maria Grammenou, Konstantina Paspala and Maria Vargemidou, Hellenic-French School Kalamari, Greece	<b>Cryptology: The art of secure                      communication, Panos Kartsidis,</b> Center for Talented Youth Greece
12:20 – 12:40		<b>The proof of computer discovered                      theorem about Yiu Transform,</b> Mamut Sirazitdinov, Almaty, Kazakhstan	<b>Codes,</b> Delia Zhang, George Ioannou and Asya Gaytukieva, Aspire Private British School, Cyprus	<b>Cryptology: The art of secure                      communication, Panos Kartsidis,</b> Center for Talented Youth Greece
12:40 – 13:00		<b>The Geometry of Famous Europe's                      Attractions,</b> Styliana Nicolaidou and Katerina Ioannidou, American Academy Larnaca, Cyprus	<b>Lights and Wiring,</b> Jakub Mazur, Radoslaw Peszkowski and Andrzej Szablewski, Jan Matejko Middle School, Poland	<b>Cryptology: The art of secure                      communication, Panos Kartsidis,</b> Center for Talented Youth Greece
13:00 – 15:00	<b>Lunch Break, Place: BALL Room A &amp; B</b> <i>Coupons offered by TopKinisis Travel to those who booked accommodation through them. Additional coupons for sale available at the registration.</i>			

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Friday, 1 April 2016				
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Coordinators		<i>A. Skotinos</i>	<i>F. Panayi</i>	<i>S. Grozdev</i>
15:00 – 15:20		<b>Mathematical game show</b> , Yolanda Parson, Cornelia Abdul Qader and Angelos Angelidis, American Academy Larnaca, Cyprus	<b>Euclidean Algorithm, Prime Number and Security Protocols</b> , Claudia Dumbrava, Dimosthenis Mintzaridis, Nicole Geli and Maria Christina Mouzaki, Zanneio Experimental Lyceum of Piraeus, Greece	
15:20 – 15:40		<b>Finding the determinant of a matrix</b> , Kate Konopleva and Daria Ivanova, Aspire Private British School, Cyprus	<b>The problem of the unfinished game</b> , Frances Gorou, Xenia Livieratou and Lyda Milidoni, The Moraitis School, Athens, Greece	
15:40 – 16:00	<b>REGISTRATIONS</b> for Conference participants, MATHeatre and MATHFactor finalists  <b>Information Desk</b>	<b>Mathematics and Life: Parallel lines and similarities application</b> , Mohammad Mehdi Behzadian, Shahid Beheshti High School, Iran	<b>The cake-cutting problem</b> , Philippa Bampi, Anna-Maria Manti, Marianna Parsali and Iris Stavridi, The Moraitis School, Athens, Greece	<b>WORKSHOP 3</b> <b>Inequalities</b> , Sava Grozdev, VUZF University, Bulgaria
16:00 – 16:20		<b>No algorithm for smallest dominating set?</b> , Komail Daviran, Meisam Motaghian, Shahid Beheshti high school, Iran	<b>How the math appeals the eyes</b> , Amirreza Jabbarpour Bright Students Shahid Beheshti High School, Iran	<b>Inequalities</b> , Sava Grozdev, VUZF University, Bulgaria
16:20 – 16:40		<b>Practicable math in the security</b> , Komail Daviran, Meisam Motaghian, Shahid Beheshti high school, Iran	<b>Prime numbers and formulas</b> , Omid Karimi, Shahid Beheshti 2 high school, Ansari, Iran	<b>Inequalities</b> , Sava Grozdev, VUZF University, Bulgaria
16:40 – 17:00	<b>MATH BREAK</b>			
17:00 – 19:00	 <b>MATHeatre Europe 2016 Competition – Finals</b> (Open to the public) ROOM OLYMPIA B&C			
20:30 – 01:00	<b>Dinner Dance “Mathematics by Night”, Place: OLYMPIA A&amp;B&amp;C</b>			

**EUROMATH 2016  
PROGRAMME**


Saturday, 2 April 2016				
Place	Hotel Lobby	Room OLYMPIA B & C	Room KALLIPATEIRA	Room OLYMPIA A
<i>Coordinators</i>		<i>S. Grozdev</i>	<i>C. Papagiannis</i>	<i>F. Panayi</i>
10:00 – 10:20	<b>Information Desk</b>	<b>Pythagora' Theorem,</b> Eleni Hadjiyiakoumi and Ewan Charalambides, Aspire Private British School, Cyprus	<b>Catalan numbers,</b> Alex Tsvetanov, Margarita Stefanova and Joana Kicheva, Bulgaria	<b>WORKSHOP 4</b> <b>Lights and Wiring,</b> Dorota Baniak, Jan Matejko Middle School, Poland
10:20 – 10:40		<b>What numbers are,</b> Anastasia Kontostoli and Nikolaos Pantazopoulos, Nea Genia Ziridi School, Greece	<b>Recondita Armonia,</b> Elena Scordo and Laura Vero, Liceo Scientifico “L. Siciliani”, Italy	<b>Lights and Wiring,</b> Dorota Baniak, Jan Matejko Middle School, Poland
10:40 – 11:00		<b>Modeling our mind with neural networks,</b> Emanuela De Chiara, Elena Maria di Virgilia, Liceo Scientifico “L. Siciliani”, Italy	<b>Mathematics for Kitchen Table,</b> Dario Calidonna, Mario Scerdo, Istituto Comprensivo “Pascoli-Aldisio”, Italy	<b>Lights and Wiring,</b> Dorota Baniak, Jan Matejko Middle School, Poland
11:00 – 11:20	<b>MATH BREAK</b>			
<i>Coordinators</i>		<i>A. Tryfonos</i>	<i>A. Savvides</i>	<i>F. Panayi</i>
11:20 – 11:40	<b>Information Desk</b> <b>End of MATHPoster Design Competition</b>	<b>Determination of the Direction of Qible,</b> Sana Sasani, Sama Primary School Zanjan, Iran	<b>WORKSHOP 5</b> <b>Coloring in Maths,</b> Tomasz Szemberg, Pedagogical University of Cracow, Poland	<b>WORKSHOP 6</b> <b>PRE-REGISTRATION REQUIRED</b> <b>Enriching Mathematics Instruction with Game Theory problems,</b> Thodoris Andriopoulos, Anatolia College Thessaloniki and Center for Talented Youth Greece
11:40 – 12:00		<b>How Math Helps us to Make Good Friends,</b> Yasmin Niroomand, Elementary school of shahed Narges, Iran	<b>Coloring in Maths,</b> Tomasz Szemberg, Pedagogical University of Cracow, Poland	<b>Enriching Mathematics Instruction with Game Theory problems,</b> Thodoris Andriopoulos, Anatolia College Thessaloniki and Center for Talented Youth Greece

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Saturday, 2 April 2016				
Place	Hotel Lobby	Room OLYMPIA B & C	Room KALLIPATEIRA	Room OLYMPIA A
12:00 – 12:20	<b>Information Desk</b>	<b>Knot theory in Mathematics,</b> Zahra Heybati and Maryam Mahdioun, Farzanegan 1, High School, Iran	<b>Coloring in Maths,</b> Tomasz Szemberg, Pedagogical University of Cracow, Poland	<b>Enriching Mathematics Instruction with Game Theory problems,</b> Thodoris Andriopoulos, Anatolia College Thessaloniki and Center for Talented Youth Greece
12:20 – 12:40		<b>A new approach to mathematical teaching,</b> Sina Rahnama, Erfan Saidi Behrouz, Bright Student Shahid Beheshti School , Iran		<b>Workshop 6 continues</b>
12:40 – 13:00				<b>Workshop 6 continues</b>
13:00 – 15:00	<b>Lunch Break, Place: BALL Room A &amp; B</b> <i>Coupons offered by Top-Kinisis Travel to those who booked accommodation through them. Additional coupons for sale available at the registration</i>			
Place	Hotel Lobby	Room OLYMPIA B & C	Room KALLIPATEIRA	Room OLYMPIA A
<i>Coordinators</i>		<i>F. Panayi</i>	<i>A. Tryfonos</i>	<i>A. Demetriou</i>
15:00 – 15:20		<b>Fractal Geometry in Pascal's Triangle,</b> Yalda Moosavi, Sepideh Asghari, Farzanegan1, high school, Iran	<b>The ancient Egyptians Method for division,</b> Haniyeh Tokhmechi, Maedeh Kimiaqalam, Farzanegan 2 high school Iran	<b>Using graphs and magic tours in solving chess and the other math mysteries,</b> Hadiseh Ebrahimi, Mahta Manteghi, Farzanegan 1 High School, Iran
15:20 – 15:40		<b>Fractals in music,</b> Muhammad Hussain Qassabi, Shahid Beheshti School, Iran	<b>Circulant Numbers,</b> Maryam Davoodi, Farzanegan 1, High School, Iran	<b>Finding the area of n-polygons using 2x2 determinants,</b> Fateme Bayatlar, Farzanegan 1, High School, Iran
15:40 – 16:00		<b>An extension of David Star property in Pascal Triangle,</b> Sepideh Massahi, Qazal Hajinaghion, Iran	<b>A generalized pascal triangles and generalized binomial coefficients,</b> Mahsa Askarnejad, Bitay Bayat, Farzanegan 1 High School, Iran	<b>Possibility Miracle,</b> Sepideh Bayat, Saniya Fazli, Farzanegan 2, High School, Iran



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Saturday, 2 April 2016	
16:00 – 18:00	 <p><b>MATHFactor Europe 2016 Competition – Finals</b> Open to the public Room OLYMPIA B&amp;C</p>
<b>AWARDS CEREMONY (Room OLYMPIA B&amp;C)</b>	
18.30 – 19.30	<p>Results of MATHeatre Europe Results of MATHFactor Europe Results of MATHPoster Design Competition Results of MATHPresentation Competition</p>
Sunday, 3 April 2016	
9:00 – 18:00	<b>Optional Excursions</b> (purchase tickets near registration area)
Afternoon	Departures
Monday, 4 April 2016	
All day	Departures