

EUROMATH 2014 - Programme

EUROMATH 2014 - Programme				
Schedule				
Thursday, 24 April 2014				
All day	EUROMATH Conference Participants – Arrivals Le-MATH finalists -Arrivals			
18:00 – 20:00	EUROMATH Registrations, Place: foyer of AKAMAS Room, Hotel Hilton Cyprus, Archbishop Makarios III Avenue, Nicosia 1516 (Remember to register for the Excursion to Protaras on Sunday 27 April 2014 and collect your ticket)			
Friday, 25 April 2014				
08:00 – 09:15	EUROMATH Registrations, Hilton Hotel, Place: foyer of AKAMAS Room			
09:30 – 10:30	EUROMATH and Le-MATH Opening Ceremony, Ballrooms A, B & C, Hilton Cyprus, Archbishop Makarios III Avenue, Nicosia 1516 Plenary Talk: From triangle mysteries to magic of hyperspace, by Prof. Dr. Ehrhard Behrends, <i>Department of Mathematics and Computer Science, Freie University of Berlin, Germany</i> , Representative of the European Mathematical Society			
10:30 – 11:00	Coffee / Juice break, Foyer			
11:00 open	Le-MATH: Mathematical Communication Banner – painting activity for pupils , Foyer of AKAMAS Room			
Place	Ballroom B	Kantara A & B	Ahera	Othello
Coordinators	A. Philippou, M. Efstathiou	D. Karantanos, G. Grigoriou	T. Parayiou, Ch. Savvidou	I. Filippou, A. Savvides
11:00 – 11:20	The questioning of the 5th axiom of Euclid , Kristina Defto, 8th Lyceum of Athens, Greece	Fractals and Geometry: Fractal Modelling , Niya Nikolaeva Georgieva, <i>High School of Mathematics and Natural Sciences “Acad. Nikola Obreshkov”</i> , Bulgaria	Maths and Physics in everyday life , Nikola Marković, <i>Gymnasium of Karlovci</i> , Serbia	Determining of correlation dependence between important values in area of effective exploitation of photovoltaic system , Peter Luba, <i>Spojená škola Nižná</i> , Slovakia
11:20 – 11:40	The golden ratio and nature , Federico Lucas, <i>Colegio Base</i> , Spain	Square versus circle , Vanja Nozica, Milica Damjanovic, <i>“Isidora Sekulic” Grammar School</i> , Serbia	Rubik’s cube , Lucas Welin-Berger, Sweden	Mathematics and Philosophy , Olorode Mubarak, <i>The Concord School, Ibadan</i> , Nigeria
11:40 – 12:00	Phi number , Kasra Eskandari Zanjany, <i>Shahid Beheshti High School</i> , Iran	The game of life , Andriana Staboli, <i>The Moraitis School</i> , Athens, Greece	Paradoxes in mathematics , Petrus Andrei, <i>Vasile Lucaciu National College</i> , Romania	The war and maths , Santiago Agüí Salcedo, David Amar Martínez, <i>Colegio Base</i> , Spain
12:00 – 12:20	The angle trisection , Effrosyni Sarafi, Maria Dimaki, <i>Hellenic-French School “Kalamari”</i> , Greece	The ultimatum game , Xenia Dimitrakopoulou, Filippos Kritsalis, Olga Pantelaki, Emma Pilaviou, Konstantinos Siakkas, Rania Zouganeli, Maria Louiza Papadopoulou, <i>The Moraitis School</i> , Athens, Greece	The mathematical analysis of psychological influence of advertising on the human , Asselkhan Akdrasheva, <i>Almaty Kazakh Turkish High School for Gifted Girls</i> , Kazakhstan	Cryptographic methods cipher substitutions , Dinmukhambet Kazbek, Kazakhstan

Friday, 25 April 2014				
Place	Ballroom B	Kantara A & B	Ahera	Othello
Coordinators	A. Philippou, M. Efstathiou	D. Karantanos, G. Grigoriou	T. Parayiou, Ch. Savvidou	D. Symeou, A. Savvides
12:20 – 12:40	Computer modeling of phase portraits systems of differential equations , Kamila Omarova, <i>Specialized school for gifted children with teaching in three languages</i> , Kazakhstan	Mathematics and Literature , Ajayi Timilehin, <i>The Concord School, Ibadan</i> , Nigeria	The strategy of expenditure of money , Almas Tursunhanov, Naiar Aubakirov, <i>East Kazakhstan Regional Specialized Kazakh-Turkish Lyceum for Gifted Children of Semey city</i> , Kazakhstan	Basic mathematical calculations in solution of supplies problems , Dana Kamalova, <i>Grammar School No 5, Mangistau region</i> , Kazakhstan
12:40 – 13:00	WORKSHOP1 How to compose new mathematical problems? Prof. Sava Grozdev, <i>Le-MATH Project Partner, P5 - VUZF University, Sofia</i> , Bulgaria	A method of solving the sparse systems of linear equations and its applications , Aidana Bekbenbet, <i>45 Gymnasium, Taraz</i> , Kazakhstan	Hexagon and inequalities , Rysbergen Akerke, Ryssymbek Aigerim, <i>Shymkent</i> , Kazakhstan	The strategy of expenditure of money , Naiar Aubakirov, Almas Tursunkhanov, <i>East Kazakhstan Regional Specialized Kazakh-Turkish Lyceum for Gifted Children of Semey</i> , Kazakhstan
13:00 – 13:20	How to compose new mathematical problems?	Some properties of grates in classification of Makenzy , Assel Kudaibergenova, Kyrgyzbay Zhandos, <i>Specialized Lyceum for Gifted Children №24</i> , Kazakhstan	Teaching intuitive connection topology in High School , Mohaddeseh Tajik, <i>Zakaria Razi Student Research Center, Ministry of Education</i> , Iran	Mathematics and Architecture , Arturo Tembours Jimenez, Elena Abenza Bernal, Guillermo de Quinto Ramos, Jorge Olivares, Teresa Abati Ruiz, Arielle Macías, <i>Colegio Base</i> , Spain
13:30 – 15:00	Lunch break @ Hilton Hotel Ballroom A <i>Ticket required to enter the lunch area</i>			
15:00 open	Mathematics Poster Design Competition 2014 – Exhibition Opens			
15:00 – 15:20	Fractal applications in medicine , Isidoros Karamanidis, <i>Hellenic-French School “Kalamari”</i> , Greece	WORKSHOP4 Improvisation in teaching and learning mathematics through theatre activities , Jarmila Novotna, Jana Machalikova, Hana Moraova, <i>Le-MATH Project Partners, P3 – Faculty of Education, Charles University in Prague</i> , Czech Republic	Application of barycentric coordinates for the construction section of the tetrahedron , Diyara Bissembayeva, <i>Republican Specialized Physics-Mathematics Secondary Boarding School for Gifted Students named after O. Zhautykov</i> , Kazakhstan	Iterative methods for the calculation of elementary functions , Damir Kazbekov, <i>East Kazakhstan Regional Specialized Kazakh-Turkish Lyceum for Gifted Children of Semey City</i> , Kazakhstan
15:20 – 15:40	Optimized distribution of goods in the city , Tamila Baimukhambetova, Uriya Jankurazova, <i>RSPHMSBS named after O.Zhautykov, Almaty</i> , Kazakhstan	Improvisation in teaching and learning mathematics through theatre activities	A mathematical view of slot machines , Sina Sadeghzadeh, <i>Shahid Beheshti High School</i> , Iran	Math and Music , Karin Nilsson, <i>Kallangen School</i> , Sweden

Friday, 25 April 2014				
Place	Ballroom B	Kantara A & B	Ahera	Othello
Coordinators	A. Philippou, M. Efstathiou	D. Karantanos, G. Grigoriou	T. Parayiou, Ch. Savvidou	D. Symeou, A. Savvides
15:40 – 16:00	Solution of the diophantine equations , Zalina Byassova, <i>State Institution «Grammar School №38», Ust-Kamenogorsk, Kazakhstan</i>	Improvisation in teaching and learning mathematics through theatre activities	Application of quasi-polynomial in solution of complex mathematical equations , Turlan Shamayev, Ramazan Urazbayev, Kazakhstan	Fractals , Antonio Matošević, <i>XV. Gimnazija, Zagreb, Croatia</i>
16:00 – 16:20	New methods of encryption and data protection , Aigerim Issatai, Aziza Polathan, <i>Shymkent, Kazakhstan</i>	WORKSHOP3 An introduction to game theory , Dr. Kostis Andriopoulos, <i>The Moraitis School, Athens, Greece</i>	View on trigonometry: the connection between mathematics and real life problems , Marko Obrić, Aleksandar Čepić, <i>Elementary School “Ivo Lola Ribar”, Sombor, Serbia</i>	Mathematics and Science , Olulabi Damilare, <i>The Concord School, Ibadan, Nigeria</i>
16:20 – 16:40	Mathematics and Crime , Achilleas Patsias, Nikos Maravelias, <i>Hellenic-French School “Kalamari”, Greece</i>	An introduction to game theory	The mystery of division by zero , Reza Asakereh, <i>Shahid Beheshti High School, Iran</i>	Listening to maths , Eva Gussoni, María de Andrés, Mario Fernández, Valentina Frassa, <i>Colegio Base, Spain</i>
16:40 – 17:00	Survey of ways for calculation of trigonometric expressions amounts. Effective way of calculation is proposed , Ilyas Daurbaev, Kazakhstan	The Symmedian Point , Huben Ivanov Ivanov, <i>“Petko Rachov Slaveikov” Secondary School, Kardzhali, Bulgaria</i>	Problems of Ramsey theory , Adlet Taiganov, <i>Kazakh-Turkish High School for Gifted Boys of Pavlodar Region, Kazakhstan</i>	Some properties Remainder Theorem , Alikhan Hasanai, Kazakhstan
17:00 – 17:20	Good Italian taste: a mathematical approach to cooking pasta , Elena Scordo, Laura Vero, <i>Licie Scientifico L. Siciliani, Italy</i>	System methods for solving equations and inequalities , Telman Aidyn, Sushenov Asanali, <i>Zhas Daryn School for Gifted Children, Kazakhstan</i>	Animal conflict , Vasilis Stavropoulos, Konstantinos Tsiampouris, <i>The Moraitis School, Athens, Greece</i>	Mathematics and Dancing , Fowosere Pelola, <i>The Concord School, Ibadan, Nigeria</i>
17:20 – 17:40	The mathematics and economics , Ayaulym Barmakbay, Akbota Issabekova <i>RSSHI im.Abaya, Kazakhstan</i>	Napoleon’s triangles and Torricelli point , Ivan Stefanov Ivanov, <i>“Petko Rachov Slaveikov” Secondary School, Kardzhali, Bulgaria</i>	The nature and mathematics , Zhambyl Leskhanuly, Kenzhebekov Alikhan, Talgat Syrmanov, <i>RSSHI im.Abaya, Kazakhstan</i>	The Golden Ratio , Moeen Darabi and Mohammad Darabi, Iran
17:40 – 18:00	Mathematics and Music , Nazerke Sarsenbayeva, Aldiyar Tuleuov, Akmaral Bagdat, <i>RSSHI im.Abaya, Kazakhstan</i>	Mathematics and history , Nazym Zhakatay, Zhamal Zhaksytay, Zhansaya Audan, <i>RSSHI im.Abaya, Kazakhstan</i>	Mathematical model development of appropriate economic problems , Adina Utunchieva, Kazakhstan	Mathematics and Sports , Adewumi Samuel, <i>The Concord School, Ibadan, Nigeria</i>
18:00 – 18:20	The mission about punch , Kausar Duisenkhan, Kazakhstan	Using generalized Euler's formula in finding primitive function of complex integrals , Zhadyra Shynybayeva, Hassanova Alua, Kazakhstan	About some interpolation polynomials , Nazir Kurbanbek, Ilyas Bordatkhonov, <i>Gymnasium №12 Named after Sh.Valikhanov, Kazakhstan</i>	Saving ways of the energy elector in hotel EXPO-2017 , Moldir Amageldinova, Kazakhstan

Saturday, 26 April 2014				
Place	Ballroom B	Kantara A & B	Ahera	Othello
09:00 open	Le-MATH Mathematical Communication Banner – painting activity for students , Foyer of AKAMAS Room			
Coordinators	S. Loizias, S. Erakleous	D. Karantanos, G. Ioannou	S. Timotheou, T. Parayiou	K. Konstantinides, K. Koumis
09:00 – 09:20	Linear programming – A bridge to one’s dream, Eleni Kleanthous, <i>The Grammar School, Nicosia, Cyprus</i>	WORKSHOP2 The Geometry of the triangle, Prof. Peter Kortesi, <i>Le-MATH Project Partner, P9 - Junior Mathematical Society Miskolc, University of Miskolc, Hungary</i>	The Ellipse, Tanja Nozica, Sandra Jelcic, <i>“Isidora Sekulic” Grammar School, Serbia</i>	The decision of geometrical problems with using the program GEONEXT, Aziza Alkuatova, <i>Taraz City, Kazakhstan</i>
09:20 – 09:40	Mathe-magic: playing zards, Zacharias Kavelis, Cleanthis Michael, Despo Panayiotou, Zoe Stavrinou, Andri Stylianou, <i>The American Academy, Larnaca, Cyprus</i>	The Geometry of the triangle	Pythagoras - The man who saw numbers everywhere, Jovana Lekovic, Tijana Sasic, <i>“Isidora Sekulic” Grammar School, Serbia</i>	Application properties of set operations to solve problems in combinatory, Tore Ziken, <i>Kazakhstan</i>
09:40 – 10:00	About one approach to the theorem of Riemann, Abdurakhmanuly Abdurashid, Tolegen Yelaman, <i>Astana, Kazakhstan</i>	WORKSHOP5 European population growth, Theodosia Prodromou, <i>University of New England, Maria Meletiou-Mavrotheris, European University Cyprus, Cyprus</i>	Introduction of an innovative solution pattern for dividing numbers to 5, Helia Khodabakhsh, <i>Iran</i>	Application of numerical experiments to the justification of mathematical facts, Aizhan Zhaksylyk, <i>Kazakhstan</i>
10:00 – 10:20	Hex, Theo Sechopoulos , Chris Grigoriadis, <i>The Moraitis School, Athens, Greece</i>	European population growth	Transformation of Napoleon polygons, Dauren Baibossyn, <i>Shymkent, Kazakhstan</i>	The first results in solution of Arnold’s Problem, Diana Temirkhan, <i>Kazakhstan</i>
10:20 – 10:40	An application of the method of least squares, Aibar Seidimbek, Olzhas Andamassov, <i>Astana, Kazakhstan</i>	Sangaku, Barbara Copić, <i>XV. Gimnazija, Zagreb, Croatia</i>	Graphs of binary relations of 21st order, Amanzhol Tahmina, <i>Regional Multidisciplinary Lyceum for Gifted Children, Kazakhstan</i>	Lights. Problems of crossroads regulation, Aigerim Shaimerdenova, <i>Kazakhstan</i>
10:40 – 11:00	Maths in all, Nicoletta Chavatzia, Rea Efthymiou, Anna Georgiou, Marilena Papaeti, <i>The GC School of Careers, Nicosia, Cyprus</i>	Crocheting adventures with hyperbolic planes, Sara Hrg, Eva Belcar, Ivana Sipus, Lana Racic, <i>XV. Gimnazija, Zagreb, Croatia</i>	Geometrical solution of algebraic problems, Astapenko Yuliya, Ospanova Samal, <i>Kazakhstan</i>	The research of twin primes with the help of computer modelling, Alisher Satybaldin, <i>School No 27, Kazakhstan</i>
11:00 – 11:20	Investigation of properties of new operations on the elements of the group, Apusheva Nurgul, Kasymova Saniya, <i>Classical School No 3 for Gifted Children, Kazakhstan</i>	The Fibonacci sequence, Nikolaos Fournaris, <i>The American Academy Larnaca, Cyprus</i>	Mathematical modelling and the economic crisis, Christina Argyridou, Magdalena Hadjidemetriou, Alexandra Kousaridou, Theodoros Stylianou, <i>The GC School of Careers, Cyprus</i>	Continued fractions, Aigerim Myrzagul, Dinargul Mukhammejanova, <i>Kazakhstan</i>

Saturday, 26 April 2014				
Place	Ballroom B	Kantara A & B	Ahera	Othello
Coordinators	S. Loizias, S. Erakleous	D. Karantanos, G. Ioannou	S. Timotheou, T. Parayiou	K. Konstantinides, K. Koumis
11:20 – 11:40	Maths and its complexity , Álvaro López Méndez, <i>Colegio Base</i> , Spain	Mathematics and economy , Mohammad Reza Ali Asgari, <i>Iran-Tehran-Reyi-Zakaria Razi Research Center</i> , Iran	Some applications of Menalaus theorem in stereometry , Nazerke Zhambyl, <i>Kazakh – Turkish High School for Gifted Girls</i> , Kazakhstan	Methods to improve the reliability of complex technical systems , Aidana Kulbayeva, Aset Omarkhan, Kazakhstan
11:40 – 12:00	Generating functions and trees in the plane , Ivan Dinkov Gerganov, “ <i>Petko Rachov Slaveikov</i> ” <i>Secondary School, Kardzhali</i> , Bulgaria	Natural convection from the cylindrical surface in the closed area , Komarova Korkem, Amantaeva Tomiris, Kazakhstan	Stati-Cheats , Vasilis Nicolaou, Mikaella Christodoulidi, Anastasia Martin, Giorgos Tziortas, <i>The American Academy, Larnaca</i> , Cyprus	Vision geometry , Aslan Karimov, Kazakhstan
12:00 – 12:20	Squaring the circle , Evelina Eleftheriou, Demetris Marangos, Anna Vassiliou, <i>The American Academy, Larnaca</i> , Cyprus	WORKSHOP6 Le-MATH: Learning mathematics through new communication factors Gr. Makrides and partners, Project Le-MATH	Mathematic and nature , Zahra Zahiri, <i>Azadi High School, Talesh, Iran</i>	Total value of mathematical statistics , Dosmaganbet Akerke, Kazakhstan
12:20 – 12:40	Basketball shots , Marko Šobak, <i>XV. Gimnazija, Zagreb</i> , Croatia	Le-MATH: Learning mathematics through new communication factors	Alternative proof of 100 inequalities: separating tangent method , Adilsultan Lepes, <i>Republican Specialized Physics and Mathematics Secondary Boarding School named after O. Zhautikov for gifted students</i> , Kazakhstan	Diagrams of numbers of natural divisors of Hacce , Aliza Akhazhan, Yasmin Junkurayeva, <i>Specialized Lyceum for Gifted Children named after M. Aryn</i> , Kazakhstan
12:40 – 13:00	Famous Numbers , Dunja Cukovic, <i>Gymnasium of Karlovci</i> , Serbia	Le-MATH Focus Group Gr. Makrides and partners Project Le-MATH	Development of mathematical tools for assessing the investment attractiveness of the emprises , Yergaliyaev Askhat, Seidualiyaev Daniyar, <i>Almaty</i> , Kazakhstan	Youth subculture as the progressing social phenomenon , Al-Farabi Abdykalykov, Kazakhstan
13:00 – 13:20	AMA “A Combinational Game” , Alireza Shafieyoon, Mehrdad Hashemolhoseini, Ali Estedlal Haghighi, Hojat Shahriari, <i>Isfahan Mathematics House, Isfahan</i> , Iran	Le-MATH Focus Group	Mathematical researches of physical processes, described in the sums in physics , Akhmetov Temirlan, Abdrakhmanova Karina, Kazakhstan	A mathematical model of optimization of traffic flows on the road network , Nuriev Abylaikhan, Kazakhstan
13:30 – 15:00	Lunch break @ Hilton Hotel Ballroom A <i>Ticket required to enter the lunch area</i>			

Saturday, 26 April 2014				
Place	Ballroom B	Kantara A & B	Ahera	Othello
Coordinators	S. Loizias, S. Erakleous	D. Karantanos, G. Ioannou	S. Timotheou, T. Parayiou	K. Konstantinides, K. Koumis
15:00 – 15:20	How to become a billionaire , Stelios Stylianou, <i>Saint Peter and Paul Lyceum, Limassol</i> , Andreas Economou, Constantinos Anastasiou, <i>The English School, Nicosia, Cyprus</i>	Formation of the medium-term development plan of Astana city correlation analysis (methodical approaches) , Miras Sabitov, Kazakhstan	Bernoulli and Eulerian numbers , Temirlan Kenesbekov, <i>Republican Specialized Physics and Mathematics Secondary Boarding School named after O. Zhautikov for Gifted Students, Kazakhstan</i>	The task of satellite navigating systems , Raziya Maksumba, Maksumbai Bakdauley, <i>11 "A" form lyceum №161, Kazakhstan</i>
15:20 – 15:40	If Santa-Claus was real , Sandra Zinajic, Monica Alexandru, <i>Marks Gymnasieskola, Kinna, Sweden</i>	Natural Convection from a Cylindrical Surface in the Closed Area , Kokenov Nurbol, Turusbek Moldir, Kazakhstan	The mathematical models as explaining of regional climate changes at the northern area of Kazakhstan , Gulimay Temirova Sairanovna, Yelaman Kozhagulov Bulatovich, <i>School-lyceum named after M. Zhumabaev, Kazakhstan</i>	The role of mathematics in the development of astronomy , Mohanna Pourjouzi, <i>Farzanegan High School, Talesh, Iran</i>
15:40 – 16:00	Solving the tasks of economics using package of MATHCAD and MAPLE , Rauan Zhakeshova, Kazakhstan	Well kept secrets over the centuries... Iliana Kopaila, <i>Thessaloniki, Greece</i>	Task about puncher , Razak Temirlan, Kazakhstan	Proof of transcendence of the Mahler number , Magzhan Tassybay, <i>Taraz Kazakh-Turkish High School, Kazakhstan</i>
16:00 – 16:20	Mathematical and computer model of a technical expert system based on chart Vyshnegradskii , Askar Asel, Kazakhstan	Pythagorean triangles , Apiyeva Alina, Amerzhanov Bakyt, Kazakhstan	Mathematical And Astronomy , Mahna Moslemnia, Nasim Faroukhzad, <i>Farzanegan High School, Talesh, Iran</i>	Circular and jlimpian tournaments , Urtaev Ayvat, Yergesheva Zarina, Kazakhstan
16:20 – 16:40	Finding the most compendious distends in the polyhedron the method of reamer , Zholymbetova Kamila, Yesserkepova Kamila, Kazakhstan	Solving the problems of movement on a plane by coordinates' method , Toktar Shuren, Zhumakeldi Ulzhan, <i>Specialized boarding school for gifted children after N. Nurmakov, Kazakhstan</i>	Mathematical model of self-synchronization vibrating machines , Aida Alimova, Aiganym Batyrbek, <i>Zhambyl Regional Specialized Boarding School "Daryn" for Gifted Students, Kazakhstan</i>	Metrics , Matej Buljan, Fran Ilčić, Andrija Mandić, Ivan Barta, <i>XV. Gimnazija, Zagreb, Croatia</i>
16:40 – 17:00	Solving the fask by using the algebraic method , Bakirova Dilyara, Kazakhstan	Math and famous numbers (phi number review) , Marzieh Maleki, <i>Narjes School for Girls, Talesh, Iran</i>	Equivalence ratio of the central , Adlet Abdugarim, Nurmagambetov Temirlan, Kazakhstan	Probability distribution of the binomial law , Aizada Ketebayeva, Kazakhstan
17:15 – 19:15	Le-MATH: MATHFactor Europe 2014 – Final Competition , <i>Open to the public, Place: Ballrooms A, B, C, Hilton Cyprus</i> <i>Cypriot Refreshments during jury meeting before announcing the final results(@ foyer)</i>			
20:45 – 01:00	“Mathematics by Night” – EUROMATH and Le-MATH Dinner Dance @ Ballrooms A, B & C Mathematics Poster Design Competition Award Ceremony during the dinner <i>Ticket required to enter the dinner area</i>			

Sunday, 27 April 2014	
Place	Ballrooms A, B, C
09:15 – 09:30	MATHPresentation Awards Best EUROMATH conference presentation results awarded by the Le-MATH European project
09:30 – 13:00	Le-MATH : MATHeatre Europe 2014 – Final Competition , <i>Open to the public</i> <i>Place:</i> Ballrooms A, B&C at Hilton Cyprus Hotel <i>Cypriot Refreshments during jury meeting before announcing the final results(@ foyer)</i>
14:15	Excursion to Protaras (busses depart outside hotel Hilton Cyprus)
Sunday, 27 April 2014	
All day	Independent Departures

