

EUROMATH & EUROSCIENCE 2019 – ASTUCON 2019 PROGRAMME

Wednesday, 13 March 2019					
MULTIFUNCTIONAL CONFERENCE CENTRE, Aliathon Resort, Paphos, Cyprus					
All day	Arrivals				
14.00 – 19.00	REGISTRATION MULTIFUNCTIONAL CONFERENCE CENTRE Arion Bar Area		Registration for Conference participants and Competition Finalists MATH & SCIENCE Poster Design Competition - Submission of printed poster designs		
09:30 – 17:00	12-16 March 2019 Room POSEIDON		ERASMUS+ KA1 COURSE MATH-GAMES 12-16 March 2019, Room POSEIDON (Level +1)		
19:00 – 20:00	EUROMATH Advisory Board Meeting By invitation only Location: ERMIS Room (Level +1)		POSTER DESIGN EXHIBITION AREA Arion Bar Exhibition Space		
Thursday, 14 March 2019					
MULTIFUNCTIONAL CONFERENCE CENTRE, Aliathon Resort, Paphos, Cyprus					
08.30 +	REGISTRATIONS (MULTIFUNCTIONAL CONFERENCE CENTRE: Arion Bar area): For Conference participants and Competition finalists MATH & SCIENCE Poster COMPETITION Submission of printed poster design				
Place	Aphrodite Hall (Level 0)	Pantheon Ball Room A (Level -1)	Adonis (Level +1)	Zeus (Level +1)	Artemis (Level 0)
Coordinators	D. Symeou	A. Savvides	E. Gazis, M. Furkes	M. Grasic, R. Schneidt	A. Skotinos
09:20 – 09:40	MP1 FINITE ABOUT INFINITY Dunja Galinec, Martin Unger Gimnazija “Fran Galovic” Koprivnica, Croatia	MP48 HOUSE MARKET PREDICTION POST MARS COLONIZATION Achioti Myrto, Fidawi Jad, Kybritis Yiannis, Saad Roy St Catherine’s British School, Athens, Greece	WS1 ELEMENTARY PARTICLE PHYSICS AT CERN Professor Evangelos Gazis National Technical University of Athens, CERN	WS5 METAMORPHOSIS OF MATHEMATICAL ASSIGNMENTS Mara Grasic, Osnovna Skola “Braca Radic”, Croatia Ksenija Varovic, Osnovna Skola Fran Koncelak Drnje, Croatia	SP3 HYPOTHETICAL LIFE ON THE PLANET GLIESE 1214B Veronica Parakhin, Sofia Baldisserotto International School of Moscow, Russia

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Coordinators	D. Symeou	A. Savvides	E. Gazis, M. Furkes	M. Grasic, R. Schneidt	A. Skotinos
09:40 – 10:00	MP2 FRACTALS AND NATURE Leonarda Jurendic Gimnazija “Fran Galovic” Koprivnica, Croatia	MP49 MATHEMATICS AND SPACE Panteleimon Tassopoulos, Ioannis Angelo-Tassioulas, Nikolaos Pollalis, George Pavlakis St. Catherine’s British School, Athens, Greece	WS1 ELEMENTARY PARTICLE PHYSICS AT CERN	WS5 METAMORPHOSIS OF MATHEMATICAL ASSIGNMENTS	SP4 NEUROLOGICAL DISEASES OF MANKIND AND ANIMALS: AN INSIGHT TO THE SOLUTION OF THE UNSOLVED Seonhu Jeon, Tahee Strein International School of Moscow, Russia
10:00 – 10:20	MP3 HOW HAS MATH SHAPED ASTRONOMY? Marta Kunstic Gimnazija “Fran Galovic” Koprivnica, Croatia	MP51 CONTINUED FRACTIONS Ivayla Ivaylova Radkova 125th SU “Boyan Penev”, Bulgaria	WS4 ESCAPE ROOM Marina Furkes, Bojana Habek Gimnazija “Fran Galovic” Koprivnica, Croatia	WS10 THE MATH-GAMES METHODOLOGY: HOW TO LEARN THE BASICS OF MATHEMATICS BY PLAYING GAMES? Roland Schneidt Volkshochschule Schrobenhausen, German	SP5 THE EFFECT OF RADON AND RADIOACTIVITY Lambros Lamprianou The Senior School, Cyprus
10:20 – 10:40	MP4 MATHEMATICS IN MOVIES Jakov Dolenc Gimnazija “Fran Galovic” Koprivnica, Croatia	MP52 TYPES OF SPACES AND TRANSFORMATIONS BETWEEN THEM Teodora Vasileva 125th SU “Boyan Penev”, Bulgaria	WS4 ESCAPE ROOM	WS10 THE MATH-GAMES METHODOLOGY: HOW TO LEARN THE BASICS OF MATHEMATICS BY PLAYING GAMES?	SP6 THE REGENERATION OF NEURONS Jirovianu Nicolae Alexandru, Iordache Laurentiu The National College Elena Cuza, Romania
10:40 – 11:00	MP5 WOMEN IN MATHEMATICS Mirta Strbad, Irina Vuckovic Gimnazija “Fran Galovic” Koprivnica, Croatia	MP53 CRACKING THE JOSEPHUS PROBLEM Seva-Mei Anagnostou, Jason Bonas, Zoe Kountouri, Ioanna Tsoktouridi, Marina Fragkouli The Moraitis School, Greece	WS4 ESCAPE ROOM	WS10 THE MATH-GAMES METHODOLOGY: HOW TO LEARN THE BASICS OF MATHEMATICS BY PLAYING GAMES?	SP7 DRIVING ON A RAINY DAY D3SPatis Kalali Forum Private Greek School, Cyprus
11:00 - 11:10	JUICE BREAK (Arion Bar)				

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Coordinators	A. Skotinos	A. Savvides	N. Savva, B. Deregowska	E. Gazis,	C. Skotinou
11:10 – 11:30	MP38 MATHEMATICS AND LIFE George Savva, Nearchos Miltiadous, Charis Chari, Ioannis Petevinos Regional Gymnasium of Nicosia in Malounta, Cyprus	MP6 MATHEMATIC IN ART Ella Vrabelj Osnovna skola "Braca Radic", Croatia	WS14 MAKE YOUR OWN PH INDICATOR AT HOME! Natasa Savva, Viviana Petinou International School of Paphos, Cyprus	ASTUCON-WORKSHOP1 TECHNOLOGICAL ACHIEVEMENTS FOR THE FUTURE ACCELERATORS AT CERN Professor Evangelos Gazis, National Technical University of Athens, CERN	SP9 EVOLUTION Ksenia Dovydenko TLC Private School, Cyprus
11:30 – 11:50	MP56 MATH AND PHYSICS IN BILLIARDS (POOL) Dimitar Lazarov 125th SU "Boyan Penev", Bulgaria	MP7 MATHEMATICS AND THEATRE Ema Vinkovic, Petra Habdija Osnovna skola "Braca Radic", Croatia	WS14 MAKE YOUR OWN PH INDICATOR AT HOME!	ASTUCON-WORKSHOP1 TECHNOLOGICAL ACHIEVEMENTS FOR THE FUTURE ACCELERATORS AT CERN	MP24 MATRICE AND TRANSPORTATION Narges Tooshe, Seyedehsarah Mojahedalmousavi, Hasti Bagheri High School Farzanegan, Iran
11:50 – 12:10	MP57 CONICS AS LOCI AND ENVELOPES Martin Dimitrov, Gergana Peeva, Borislav Stoyanov 125th SU "Boyan Penev", Bulgaria	MP8 MATHS AND BICYCLING Fran Filipovic Osnovna skola "Braca Radic", Croatia	WS11 ON LINE ARRANGEMENTS AND THEIR PROPERTIES Baeta Deregowska Pedagogical University of Cracow, Poland	ASTUCON-WORKSHOP2 CERN LAB Professor Evangelos Gazis, National Technical University of Athens, CERN	MP26 GEOMETRICAL STRUCTURE OF BAGPIPE FROM VIEWPOINT OF MATHEMATICAL IN MUSIC VISION Parnian Shojaei, PArmida Azizi, Ava Ilami High School Farzanegan, Iran
12:10 – 12:30	MP70 SOROBAN & ANZAN - THE SECRET OF MENTAL MATH WITH THE JAPANESE ABACUS Noah Newton Obermair Austria	MP9 MATHEMATICS IN PROGRAMMING Fran Vlahovic Osnovna skola "Braca Radic", Croatia	WS11 ON LINE ARRANGEMENTS AND THEIR PROPERTIES Baeta Deregowska Pedagogical University of Cracow, Poland	ASTUCON-WORKSHOP2 CERN LAB	MP59 TINDER STARTER GUIDE Antonia Asimakopoulou, Alexandros Contomichalos, Vicky Deligianni, Angela Pilioura, Nikos Skouloudis The Moraitis School, Greece

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Coordinators	A. Skotinos	A. Savvides	S. Grozdev	E. Gazis	C. Skotinou
12:30 – 12:50	MP74 MATHEMATICS IN CRYPTOGRAPHY Nickolas Farmakis American Academy Nicosia, Cyprus	MP10 COOKING WITH A LITTLE HELP OF MATHS Josip Mikulic Osnovna skola "Braca Radic", Croatia	WS6 DIVISIBILITY OF NUMBERS Sava Grozdev VUZF University, Bulgaria	ASTUCON-WORKSHOP2 CERN LAB	MP60 THE CONFIDENT GAMBLERS Ara Artinian, Christopher Moulakis The Moraitis School, Greece
12:50 – 13:10	MP75 MATHEMATICS BEHIND THE ATOMIC BOMB- SUMMARY Danae Petrides, Nadine Al Asmar The Senior School, Cyprus	MP61 THE FIBONACCI SEQUENCE Astrid Hofwander, Engla Sundstrom Polhemskolan, Sweden	WS6 DIVISIBILITY OF NUMBERS	SP8 TACHYONS Mohammad Zolfkhani Shahid Beheshti, Iran	MP62 BEAT THE BLACKJACK DEALER Anna Prodromou, Kyprianos Kythreotis The Grammar School, Nicosia
13:10 – 14:15	Lunch Break, Place: MULTIFUNCTIONAL CONFERENCE CENTRE - Pantheon Restaurant (Level -1) Coupons offered by TopKinisis Travel to those who booked accommodation through them. Additional coupons for sale available at the registration desk				
Place	Aphrodite Hall (Level 0)	Pantheon Ball Room A (Level -1)	Adonis (Level +1)	Zeus (Level +1)	Artemis (Level 0)
Coordinators	K. Andriopoulos	T. Evagorou	C. Polycarpou	N. Anastasiou	S. Eracleous
14:20 – 14:40	MP76 DANCE AND MATHEMATICS / UNIVERSAL LANGUAGE (OF DANCE) Mia Cimas Prva rijecka hrvatska gimnazija, Croatia	MP71 LEARNING MATHEMATICS FROM ANTS Patrik Aleksic, Patricia Baros Prva Rijecka Hrvatska Gimnazija, Croatia	WS12 CHEMISTRY OF CLIMATE Claire Polycarpou International School of Paphos, Cyprus	ASTUCON-WORKSHOP3 HEALTH AND SAFETY, LUXURY OR A NECESSITY Nikos Anastasiou Leptos group, Cyprus	MP63 SHOULD WE TRUST OUR COMMON SENSE? Maria Papageorgiou, Chrysovalanto Grigoriou, Athina Strati The Grammar School, Nicosia

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Coordinators	K. Andriopoulos	T. Evagorou	N. Gregoric	N. Anastasiou	S. Eracleous
14:40 – 15:00	MP77 3D MODELLING Constantinos Hadjigregoriades The GC School of Careers, Nicosia, Cyprus	MP72 THE MATHEMATICS BEHIND THE GAME OF “ROCK-PAPER- SCISSORS” Natali Marinkovic Prva Rijecka Hrvatska Gimnazija, Croatia	WS12 CHEMISTRY OF CLIMATE	ASTUCON-WORKSHOP3 HEALTH AND SAFETY, LUXURY OR A NECESSITY	MP64 WHEN PAPER MET MY FINGERS Marianna Vassiliou, Evanthis Vacanas, Sotiris Vacanas The Grammar School, Nicosia
15:00 – 15:20	MP78 FROM THE TOP TO THE DROP Constantina Shiacola, Eva Antoniadi, Marios Christoforou, Orestis Savvides The GC School of Careers, Nicosia, Cyprus	MP73 HOW TO WIN IN PAC-MAN Andrej Bozic, Luka Zmak Prva Rijecka Hrvatska Gimnazija, Croatia	MP96 HOW TO BECOME A NATIONAL CHAMPION IN CYCLING BY USING MATHEMATICS? Natan Gregoric St Stanislav Institution, Slovenia	ASTUCON-WORKSHOP3 HEALTH AND SAFETY, LUXURY OR A NECESSITY	MP65 DEDUCTIVE DATABASE APPROACH TO AUTOMATED GEOMETRY THEOREM PROVING AND DISCOVERING WITH JAVA GEOMETRY EXPERT Kostas Georgios-Alexandros, Bampatsias Panagiotis Varvakeion Model High School, Greece
15:20 – 15:40			MP97 INVITATION TO PERMUTATIONS Krzysztof Kotarski, Szymon Nowak, Filip Zieliński, Dawid Zuk Zespol Szkolno-Przedszkolny w Zabierzowie, Poland	MP34 BEATING WORLD RECORDS USING MATHEMATICS Lucia Hosein International School of Moscow, Russia	MP66 LINEARIZATION Yavor Georgiev 125th SU “Boyan Penev”, Bulgaria

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Opening Ceremony

EUROMATH and EUROSCIENCE 2019 Conference and ASTUCON 2019
Room: MULTIFUNCTIONAL CONFERENCE CENTRE, Aphrodite Hall (Level 0)
(Read detailed programme in the booklet)

16:00 – 18:30

18:30 – 19:30

RECEPTION OFFERED BY THE MUNICIPALITY OF PAPHOS
Place: PANTHEON BALL ROOMS A & B (Level -1)

COMPETITION REHEARSALS

Coordinator

C. Papagiannis, S. Loizias, L. Makrides

19:30 – 21:00

(Reserve your wish for using the stage for rehearsal for the competitions below by sending an email to info@euromath.org (indicate name and competition)

MATH and SCIENCE Theatre Europe Competition – Rehearsals (Aphrodite Hall, Level 0)

MATHFactor Europe Competition – Rehearsals (Adonis , Level +1)

SCIENCE-Factor Europe Competition - Rehearsals (Zeus, Level +1)

Reserve your time slot, approximately 3 min per Factor, between 5-12 min per Theatre

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Place	Aphrodite Hall (Level 0)	Pantheon Ball Room A (Level -1)	Adonis (Level +1)	Zeus (Level +1)	Artemis (Level 0)
Coordinators	D. Symeou	A. Savvides	D. Demetriou, E. Gazis	A. Ignatiou, M. Dimitropoulos	A. Skotinos
09:00 – 09:20	MP102 THE MATHEMATICS ON GAMBLING Andreas Psaltis, Andreas Michael, The English School of Nicosia, Cyprus	MP11 MATHEMATICS AND GEOMETRICAL PATTERNS Lara Vukovic, Tara Sambar Osnovna skola "Braca Radic", Croatia	WS13 "MAGIC FREQUENCIES" OR "SEEING SOUND" Despina Demetriou, Andrea Hadjialexandrou International School of Paphos, Cyprus	WS15 SHOEBOX HABITAT Antonis Ignatiou International School of Paphos, Cyprus	ASTUCON Presentation 1 DEVELOPING DYNAMIC CAPABILITIES IN PUBLIC SECTOR ORGANIZATIONS Tharwat Jaber Frederick University, Cyprus
09:20 – 09:40	MP79 IT IS A GAMBLING PROBLEM ONLY IF YOU ARE LOSING! Stephanos Arsalides, Georgios Halios, Maria Selinopoulou, Kyriakos Tenedios. The GC School of Careers, Nicosia, Cyprus	MP12 MATHEMATICS AND CROATIAN FOOTBALL TEAM Lorena Siroki Osnovna skola "Braca Radic", Croatia	WS13 'MAGIC FREQUENCIES' OR 'SEEING SOUND'	WS15 SHOEBOX HABITAT	ASTUCON Presentation 3 WAYS OF MANAGING GOVERNMENTAL BUREAUCRACY: AN EMPIRICAL PERSPECTIVE Timotheos Dimitriou Neapolis University Pafos, Cyprus
09:40 – 10:00	MP80 TOGETHER WE WILL BEAT CANCER Nayia Aza The GC School of Careers, Nicosia, Cyprus	MP13 APPLICATION OF MATHEMATICS IN ANATOMY OF HUMAN BODY Lovro Priselec, Ivan Sinjeri Osnovna skola "Braca Radic", Croatia	WS2 MEDICAL APPLICATIONS BY NUCLEAR & ELEMENTARY PARTICLE PHYSICS Professor Evangelos Gazis National Technical University of Athens, CERN	WS20 THE MAGIC OF SCIENCE Dimitropoulos Manolis, Kopaila Hliana, Gerovasiliou Antonia Diastaseis Private School, Greece	ASTUCON Presentation 4 LEARNING STYLES QUESTIONNAIRE PRIOR AND AFTER IMPLEMENTATION OF HYBRID PBL Kyriacou Andria-Anna, Nicolaou Stella A. University of Nicosia, Cyprus

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Coordinators	D. Symeou	A. Savvides	G. Spyrou	G. Keliris	A. Skotinos
10:00 – 10:20	MP81 THE MATHEMATICS IN BEAUTY AND ATTRACTION Jana Gad Rygaards International School, Denmark	MP14 MATHEMATICS IN GOLA Marija Svegovic Osnovna skola "Braca Radic", Croatia	WS2 MEDICAL APPLICATIONS BY NUCLEAR & ELEMENTARY PARTICLE PHYSICS	WS20 THE MAGIC OF SCIENCE	ASTUCON Presentation 5 EXPECTATIONS AND RESULTS OF COMPANIES IN PRACTICAL BUSINESS PROJECT Inri Sumitra Dewi Saxion University of Applied Science, Netherlands
10:20 – 10:40	MP84 UNLIMITED CAPABILITIES: A REPORT ON VARIOUS SUBTYPES OF ARTIFICIAL INTELLIGENCE Philippos Ganos, Antonios Panagakos, Alexios Papadopoulos, Christos Petropoulos The American College of Greece-Pierce, Greece	MP15 APPLICATIONS OF MATHEMATICS TO ECONOMICS Matija Simek Osnovna skola "Braca Radic", Croatia	CING Bioinformatics Symposium CS1 BIOLOGY IN NUMBERS Andrea Kakouri, Maria Zanti Bioinformatics ERA Chair, The Cyprus Institute of Neurology & Genetics, Cyprus	WS18 EXPERIMENTAL AND HANDS-ON ACTIVITIES BY ENGINE® USING THE PRODUINO™ CONTROLLER George Keliris, Xenia Giannakou Engino, Cyprus	ASTUCON Presentation 6 MODERN APPROACHES FOR PRESERVATION OF CULTURAL AND HISTORICAL HERITAGE Eva Tsenkova Simona Dusheva State University of Library and Information Technologies, Bulgaria
10:40 – 11:00	MP86 EUCLIDIAN VS NON EUCLIDIAN GEOMETRY: IS GEOMETRY ONE SIDED? Anastasia Efraimoglou, Eleni Fouka, Evridiki Koletsou, Victoria Martin Veneti, Eirini Sigalou, Nikitas Stathopoulos The American College of Greece-Pierce, Greece	SP1 PHYSICS AND ARCHITECTURE – HOW AND WHY? Ana Marija Habdija, Kaja Sertic Gimnazija "Fran Galovic" Koprivnica, Croatia	CING Bioinformatics Symposium CS2 MEDICINE IN NUMBERS Christiana Christodoulou, Kyriaki Savva Bioinformatics ERA Chair, The Cyprus Institute of Neurology & Genetics, Cyprus	WS18 EXPERIMENTAL AND HANDS-ON ACTIVITIES BY ENGINE® USING THE PRODUINO™ CONTROLLER	ASTUCON Presentation 7 CROWDFUNDING AS A NEW FUNDING SOURCE: ITS POTENTIAL AND FACTORS DETERMINING SUCCESS Anna D, Anyfantaki, Frederick University, Cyprus
11:00 – 11:10	JUICE BREAK (Arion Bar)				

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11:10 – 11:30	MP58 3 6 9 THEORY OF NIKOLA TESLA George Toumbas, Notis Tzionis American Academy Larnaca, Cyprus	SP2 SCIENGICIAN Andrija Njers Gimnazija “Fran Galovic” Koprivnica, Croatia	CING Bioinformatics Symposium CS3 MATHEMATICAL MODELING OF THE BRAIN Margarita Zachariou Bioinformatics ERA Chair, The Cyprus Institute of Neurology & Genetics, Cyprus	WS3 FUNECOLE® DEVELOPING THE WHOLE CHILD Chryso Christodoulou, Digipro Education Limited, Cyprus	ASTUCON Presentation 8 ANALYSIS AND RECONSTRUCTION OF REAL CAR ACCIDENTS WITH THE AID OF PC-CRASH SOFTWARE Matthew K. Alpas, Frederick University, Cyprus
11:30 – 11:50	MP67 WHEN MATHEMATICS MEETS FASHION Marina Leonida, Orthodoxia Georgiou American Academy Larnaca, Cyprus	SP13 THE SUN AS A SOURCE OF ENERGY AND THE MEASUREMENT OF THE SOLAR CONSTANT Andreas Georgopoulos Geitonas School, Greece	CING Bioinformatics Symposium CS4 BIG DATA OMICS ANALYTICS Anastasis Oulas Bioinformatics ERA Chair, The Cyprus Institute of Neurology & Genetics, Cyprus	WS3 FUNECOLE® DEVELOPING THE WHOLE CHILD	ASTUCON Presentation 9 RENDERING SOUR INTO SWEET NATURAL GAS Panayiota Argyrou, Constantinos Hadjistassou University of Nicosia, Cyprus
11:50 – 12:10	MP68 MATHS IN BEAUTY Eleni Apostolou, Georgia Haili, Myrofora Markidou American Academy Larnaca, Cyprus	SP14 CARBON DIOXIDE CAN SAVE THE WATER Bojana Marojevikj, Marija Stojcheva Yahya Kemal College Skopje, North Macedonia	CING Bioinformatics Symposium CS5 COMPUTATIONAL INTELLIGENCE IN BIOMEDICINE George Minadakis Bioinformatics ERA Chair, The Cyprus Institute of Neurology & Genetics, Cyprus	WS3 FUNECOLE® DEVELOPING THE WHOLE CHILD	ASTUCON Presentation 10 UN-ILLUMINABLE ROOMS AND THEIR APPLICATIONS Panagiotis Antoniou, European University Cyprus
12:10 – 12:30	MP69 JUST BEFORE SLEEPING Prokopis Georgiou American Academy Larnaca, Cyprus	SP15 MATHS IN THE TENTH DIMENSION George Raftis The Grammar School, Nicosia	CING Bioinformatics Symposium CS6 GRAPH THEORY BEHIND BIOMEDICAL NETWORKS George Spyrou Bioinformatics ERA Chair, The Cyprus Institute of Neurology & Genetics, Cyprus	WS7 PRIME NUMBERS Sava Grozdev VUZF University, Bulgaria	ASTUCON Presentation 11 DESIGN AND CONSTRUCTION OF A TENSION LEG PLATFORM FOR WAVE AND WIND EXPLOITATION M. P. Charalambous, Naval Architecture Department, University of West Attica, T. P. Mazarakos, One Tech Services LTD, Cyprus

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Coordinators	D. Symeou	A. Savvides	G. Spyrou	C. Christodoulou	A. Skotinos
12:30 – 12:50	MP82 THE REAL WORLD OF IMAGINARY NUMBERS Barouchas Harry, Stratis Kounalakis, Moschonas Gerasimos, Xenikakis Nickolaos-Rafael, Papadopoulos Nikolaos, Evgenia Skagkou Zanneio Experimental Lyceum of Piraeus, Greece	SP18 CAN IT BOUNCE Owen Pritchard TLC Private School, Cyprus	CING Bioinformatics Symposium CS7 THE MATHEMATICAL BASIS OF BIOINFORMATICS: ROUND TABLE DISCUSSION AND Q/A	WS7 PRIME NUMBERS	SP12 PROPLIS AGAINST CANCER Nadia Bakhshi Nemone Dolati-e- Shohada, Iran
13:00 – 14:15	Lunch Break, Place: MULTIFUNCTIONAL CONFERENCE CENTRE – Pantheon Restaurant (Level -1) Coupons offered by TopKinisis Travel to those who booked accommodation through them. Additional coupons for sale available at the registration desk				
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Coordinators	C. Skotinou	S. Eracleous	T. Szemberg, P. Cheng	S. Antoniadis, A. Demetriou	T. Evagorou
14.20 – 14.40	MP16 MATHS, SCIENCE AND REAL LIFE Nera Tomrlin Osnovna skola “Braca Radic”, Croatia	SP16 SPECTROPHOTOMETRY Kakos Sotiris, Karali Alexandra, Kritharidis Konstantinos, Hadjicosta Marilena, Sfiris Haralambos Ioannis The American College of Greece-Pierce, Greece	WS22 MATHEMATICAL GAMES Tomasz Szemberg Pedagogical University of Cracow, ul. Podchorazych 2, PL-30-084 Cracow, Poland	WS17 ‘BIOLOGICAL MOLECULES’ AS LEVEL Sotiris Antoniadis, International School of Paphos, Cyprus	SP34 WORMHOLES Bogdan Fomichev International School of Paphos, Cyprus

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14:40 – 15:00	MP17 LEARNING MATHEMATICS THROUGH GAMES Niko Sertic Osnovna skola “Braca Radic”, Croatia	SP17 STEM CELLS Arvanitaki Victoria, Gkerekou Georgia, Loukaki Vasiliki, Charalampos Papadopoulos-Siountris, Christina Servou, Antonia Stamatellou The American College of Greece-Pierce, Greece	WS22 MATHEMATICAL GAMES	WS17 ‘BIOLOGICAL MOLECULES’ AS LEVEL	SP35 HAZELNUT SHELL BRIQUETTES Eda Avmedovska, Eva Lazarevska Yahya Kemal College Skopje, North Macedonia
15:00 – 15:20	MP18 MATHEMATICS IN SPORTS Nikola Kusek Osnovna skola “Braca Radic”, Croatia	SP19 CHROMATOGRAPHY Giagli Xenia, Maravitsas Konstantinos, Papadakis Nikolaos, Papakosta-Sampatakaki Kanella, Papanikolaou Archonto-Rafaëla The American College of Greece-Pierce, Greece	WS8 ROMBOTICS FOR MATHEMATICS STUDENTS Pericles Cheng Cyprus Computer Society & ROBOTEXT CYPRUS	WS19 THE HIDDEN SECRETS WITHIN THE TERMS OF A POLYNOMIAL Andreas Demetriou The Heritage Private School, Cyprus Cyprus Mathematical Society	SP36 HEAVY METAL REMOVAL WITH VINEGAR: APPLE, GREEN GRAPES, BLACK GRAPES, POMEGRANATE Tea Smilevska, Dea Rajhl Yahya Kemal College Skopje, North Macedonia
15:20 – 15:40	MP19 MATHEMATICS AND GEOMETRY IN ARCHITECTURE Patrik Fiser Osnovna skola “Braca Radic”, Croatia	SP21 FLY A DRONE, SAVE A FOREST Nikolas Hadjipaschalis International School of Paphos, Cyprus	WS8 ROMBOTICS FOR MATHEMATICS STUDENTS	WS19 THE HIDDEN SECRETS WITHIN THE TERMS OF A POLYNOMIAL	SP37 PLASTIC OF POTATOES Valmir Iseini, Damjan Konjanovski Yahya Kemal College Skopje, North Macedonia
15:40 – 16:00	MP20 FISHING MATH Iva Betlehem Osnovna Skola Fran Koncelak Drnje, Croatia	SP27 QUANTUM MECHANICS: EVERYTHING AND EVERYWHERE Maria Tivanova The Heritage Private School, Cyprus	WS8 ROMBOTICS FOR MATHEMATICS STUDENTS	WS19 THE HIDDEN SECRETS WITHIN THE TERMS OF A POLYNOMIAL	SP22 BALLET Laetitia Mukiza, Maria Yiasoumi Med High Schools, Cyprus

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Place	Aphrodite Hall (Level 0)	Pantheon Ball Room A (Level -1)	Adonis (Level +1)	Zeus (Level +1)	Artemis (Level 0)
Coordinator	C. Skotinou	S. Eracleous	P. Cheng	N. Savva, A. Grguric	T. Evagorou
16:00 – 16:20	MP85 THE WORLD'S COMMON LANGUAGE Anastasia Nicolaou The GC School of Careers, Nicosia, Cyprus	SP28 HYPNOSIS Eleftherios Nikou, Isabella Cairns, Lydia Wells, Mathew Kuzmin TLC Private School, Cyprus	WS8 ROMBOTICS FOR MATHEMATICS STUDENTS	WS16 MIND MAPPING FOR CHEMISTRY CONCEPTS Natasa Savva, Viviana Petinou International School of Paphos, Cyprus	SP23 CYCLING Anna Kalaitidou Med High Schools, Cyprus
16:20 – 16:40	MP91 THE GREAT PYRAMID OF GIZA Janat Derawi Med High Schools, Cyprus	SP30 TIME TRAVELLING Vrettas Christos, Bompitsis Kostantinos, Vretta Theodora Diastaseis Private School, Greece	WS8 ROMBOTICS FOR MATHEMATICS STUDENTS	WS16 MIND MAPPING FOR CHEMISTRY CONCEPTS	SP24 SPEED Marco Marcou Med High Schools, Cyprus
16:40 – 17:00	MP87 WHAT IS THE DIFFERENCE BETWEEN A CUP AND A DONUT? Freja Johansson, Saga Anderholm Hansson Polhemskolan, Sweden	SP20 PHYSICS OF THE BRAIN Deniz Akansoy, Leonie Kallis, Omer Emir Serak The English School of Nicosia, Cyprus	WS8 ROMBOTICS FOR MATHEMATICS STUDENTS	WS21 ENJOYING MATH Anita Grguric, Zlatka Miculinic Mance Prva Rijecka Hrvatska Gimnazija, Croatia	SP25 THE PERFECT HIGH-FIVE Zeno Kafetzis, Elizaveta Porunova, Alexander Kalaitides, Andrea Efstathiou, Raphaella Gregoriou, Diba Salamat Med High Schools, Cyprus
17:00 – 17:20	MP94 Π Ioanna Gerolemou, Tuna Erchika, Daria Shmidt Med High Schools, Cyprus	SP31 CYPRUS HERITAGE EXPLORING WITH QUANTUM PROGRAMMING Aleksander Bosek XIV LO im. St. Staszica, Poland	WS8 ROMBOTICS FOR MATHEMATICS STUDENTS	WS21 ENJOYING MATH	SP26 WHY DO WE DREAM Omar Hmaydani Med High Schools, Cyprus
17:20 – 17:40	MP103 OPTIMIZING EMERGENCY RESPONSE TIME USING MATHEMATICS AND COMPUTER SCIENCE Andreas Lordos The English School, Nicosia	SP33 SOLVING THE GLOBAL ISSUE OF OIL SPILLS Valmir Iseini, Damjan Konjanovski Yahya Kemal College Skopje, North Macedonia	WS8 ROMBOTICS FOR MATHEMATICS STUDENTS	MP55 MATHEMATICS AND PHILOSOPHY Juan A. Monge-Navarro Otero Turku International School, Finland	SP29 THE MIRAGE TO REALITY Andrea Alexandrou, Sophia Constantinou, Vasiliki Kalimera, Michalis Kasoulides The English School Nicosia, Cyprus

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17:40 – 18:00	MP28 THE FORMULIZATION OF THE PUZZLE OF PICTURE HANGING Behrokhshadat Behresi, PArmida Azizi, Parnian Shojaei High School Farzanegan, Iran		MP32 A NEW MODEL FOR SIGNAL AND IMAGE DENOISING FROM THE VIEWPOINT OF IMAGE PROCESSING Viana Salehi High School Farzanegan, Iran
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Friday, 15 March 2019

MULTIFUNCTIONAL CONFERENCE CENTRE, Aliathon Resort, Paphos, Cyprus

17:40 – 18:00	JUICE BREAK (Arion Bar)
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Place	Room: Adonis and Zeus (Level +1)
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Coordinator	C. Papagiannis, S. Loizias
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18:00 – 19:30	 MATHFactor and SCIENCEFactor Europe 2019 Competitions – Finals Open to the public
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Finals MATHFactor Europe 2019	Finals SCIENCEFactor Europe 2019
Room Adonis (Level +1)	Room Zeus (Level +1)

18:00 – 19:30	<u>MATH-FACTOR EUROPE 9-13</u> MFL1 Card Tricks, HR MFL2 Abacus Soroban, HR MFL3 Patterns, HR MFL4 Mathematics and rigid body, NG MFL5 Geometry patterns on clothes, HR MFL6 Vampire number, HR MFL7 Cokolino, HR MFL8 Geometry with courts, HR MFL9 World Cup Maths, HR	<u>SCIENCE-FACTOR EUROPE 9-18</u> SF1 It's not magical but... magnetismical, CY SF2 How a simple Electric Circuit application makes house chores easier!, CY SF3 Olbers' paradox, HR SF4 Fountain Admirer, CY SF5 Too many cooks spoil the broth, CY SF6 An alternative Musical Instrument, CY SF7 Dissolution of sea shell's calcium carbonate in vinegar, NMK SF8 Back to the future, CY SF9 Chromatography!, CY SF10 Ventilation of the thorax, CY
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20:30 – 01:00	Dinner Dance “Mathematics and Science by Night” Place: Pantheon Ball Rooms A & B (Level -1) Address: Aliathon Hotel, MULTIFUNCTIONAL CONFERENCE CENTRE
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EUROMATH & EUROSCIENCE 2019 – ASTUCON 2019 PROGRAMME

Saturday, 16 March 2019

MULTIFUNCTIONAL CONFERENCE CENTRE, Aliathon Resort, Paphos, Cyprus

OWLYPIA Online Competition

(BYOD : Bring your own device) (Zeus Room, Level +1)

1. Social Sciences 2. Science & Technology 3. Economics & Business

4. Art & Design 5. Literature & Culture

Pre-registration and payment is required.

For students aged 11-14 (Owlets) & 15-18 (Owlys)

Place	Aphrodite Hall (Level 0)	Pantheon Ball Room A (Level -1)	Adonis (Level +1)	Zeus (Level +1)	Artemis (Level 0)
Coordinators	D. Karantanos	S. Eracleous	P. Cheng	L. Makrides	A. Demetriou
09:20 – 09:40	MP98 OUR NOT SO EVERYDAY - EVERYDAY DILEMMAS Karolina Adamczyk, Julia Janik, Zofia Kaweska, Gabriela Walczowska Zespol Szkolno-Przed Szkolny w Zabierzowie, Poland		WS9 ROMBOTICS FOR MATHEMATICS TEACHERS Pericles Cheng Cyprus Computer Society & ROBOTEXT CYPRUS	MP104 ZERO MISTERIES Jirovianu Nicolae Alexandru, Iordache Laurentiu Andrei The National College Elena Cuza, Romania	SP38 AERODYNAMICS IN OUR LIVES Kaloyan Todorov Fachikov, Martin Boyanov Stefanov, Ivan Ventsislavov Georgiev Sofia High School of Mathematics, Bulgaria
09:40 – 10:00	MP83 REVERSING PASCAL'S TRIANGLE Kyriacos Rouvas The English School Nicosia, Cyprus		WS9 ROMBOTICS FOR MATHEMATICS TEACHERS	MP36 MATHEMATICS AND RIGID BODY Oleghe Godwin, Akerele Abdulsattar, Uthman Hameedah, Okeoma Isabella The Concord School, Nigeria	SP39 GOAL IMPOSSIBLE Yiannis Ioannou, Anastasis Nicolaou, Chris Leonidou, Stylianos Fatouros The GC School of Careers, Nicosia, Cyprus

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Saturday, 16 March 2019

MULTIFUNCTIONAL CONFERENCE CENTRE, Aliathon Resort, Paphos, Cyprus

Place	Aphrodite Hall (Level 0)	Pantheon Ball Room A (Level -1)	Adonis (Level +1)	Zeus (Level +1)	Artemis (Level 0)
Coordinators	D. Karantanos	S. Eracleous	P. Cheng	L. Makrides	A. Demetriou
10:00 – 10:20	MP27 INVESTIGATION OF THE POETRY IN LITERATURE FROM VIEWPOINT OF MATH VISION Behroksadat Behresi, Arnavaz Parvizi, Seyehniyousha Nazraftar High School Farzanegan, Iran	MP21 WORLD CUP IN RUSSIA 2018 AND THE BIG CROATIAN FOOTBALL TEAM ACHIEVEMENT Matej Matijasic Osnovna Skola Fran Koncelak Drnje, Croatia	WS9 ROMBOTICS FOR MATHEMATICS TEACHERS	MP37 A RIDE YOU WILL NEVER FORGET Andreana Vanezou, Giorgos Antonaras, Ioannis Panayiotou The GC School of Careers, Nicosia, Cyprus	SP40 BEFORE THE ALARM GOES OFF Tereza Michael The GC School of Careers, Nicosia, Cyprus
10:20 – 10:40	MP39 THE AREA OF SURFACES WHICH ARE BOUNDED BY THE “BLACK HOLE” FUNCTIONS Bogdan Branisteanu, Darius Feher “Mihai Eminescu” National College Satu Mare, Romania	MP22 MATH THROUGH GEOGRAPHY Hana Siroki Osnovna Skola Fran Koncelak Drnje, Croatia	WS9 ROMBOTICS FOR MATHEMATICS TEACHERS	OWLYPIA COMPETITION	SP41 OPTIMISING OF WASTE COOKING OIL INTO BIODIESEL Dren Kaliqi, Mervesena Cengiz Yahya Kemal College Skopje, North Macedonia
10:40 – 11:00	MP40 SOME INFINITE PRODUCTS Arteni Dan, Podina Tudor “Mihai Eminescu” National College Satu Mare, Romania	MP101 MATHEMATICS AND SOCIETY Odysseas Lesko, Vaggelis Saradoulakis, Huang Cheng Yu International School of Piraeus, Greece	WS9 ROMBOTICS FOR MATHEMATICS TEACHERS	OWLYPIA COMPETITION	SP42 HERBS AND MEDICINE Irene Kokiasmenou, Eleni Papadopoulou, Alkmini Mantzouratou, Anastasia Saltou, Eleftheria Koutsouraki, Stellina Monastiridou International School of Piraeus, Greece

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Saturday, 16 March 2019

MULTIFUNCTIONAL CONFERENCE CENTRE, Aliathon Resort, Paphos, Cyprus

Place	Aphrodite Hall (Level 0)	Pantheon Ball Room A (Level -1)	Adonis (Level +1)	Zeus (Level +1)	Artemis (Level 0)
Coordinators	D. Karantanos	S. Eracleous	P. Cheng	L. Makrides	A. Demetriou
11:00 – 11:20	MP35 COUNTING WITH CATALAN NUMBERS Adewumi Feyikemi, Dawodu Naimah, Alayande Emmanuel The Concord School, Nigeria	MP42 UNDERSTANDING MUSIC THROUGH MATHS Constantinos Gallis, Riho Pallum, Georgios Roupas St. Catherine’s British School, Greece	WS9 ROMBOTICS FOR MATHEMATICS TEACHERS	OWLYPIA COMPETITION	SP43 ELECTRIC DEVICES AND HUMAN BODY Jin Hao, Philippos Panourgias International School of Piraeus, Greece
11:20 – 11:40	MP88 GENERAL-SUM GAMES AND NASH EQUILIBRIUM Martin Boyanov Stefanov Sofia High School of Mathematics, Bulgaria	MP43 THE MAGIC OF NUMBERS Vretta Theodora, Kaltaveridou Maria Diastaseis Private School, Greece	WS9 ROMBOTICS FOR MATHEMATICS TEACHERS	OWLYPIA COMPETITION	SP44 THE EFFECT OF AN ORGANIC SURYP WITH ARONIA AGAINST THE DUST MITE ALLERGIES Jana Majnova Yahya Kemal College Skopje, North Macedonia
11.40 – 12.00	MP89 ANALYSES OF LIMP ROOK, STUMBLER ROOK AND OTHER CHESS FIGURES Ivan Ventsislavov Georgiev Sofia High School of Mathematics, Bulgaria	MP44 CRYPTOLOGY’S JOURNEY Kaltaveridou Maria, Vretta Theodora Diastaseis Private School, Greece	WS9 ROMBOTICS FOR MATHEMATICS TEACHERS	OWLYPIA COMPETITION	SP45 DOG-A MAN’S BEST FRIEND Nikoletta Antoniou, Elicia Byans, Zara Dolman, Annie Lin, Aimee Mcgawn TLC Private School, Cyprus

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Saturday, 16 March 2019


MULTIFUNCTIONAL CONFERENCE CENTRE, Aliathon Resort, Paphos, Cyprus

Place	Aphrodite Hall (Level 0)	Pantheon Ball Room A (Level -1)	Adonis (Level +1)	Zeus (Level +1)	Artemis (Level 0)
Coordinators	D. Karantanos	S. Eracleous	P. Cheng, K. Gryszka	L. Makrides	A. Demetriou
12.00 – 12:20	MP90 PACKING TRIANGLES IN GRAPHS WITH SUBLINEAR INDEPENDENCE NUMBER Kaloyan Todorov Fachikov Sofia High School of Mathematics, Bulgaria	MP45 THE SHADOW'S HIDDEN MESSAGE Taekhyun Kim, Dongyoung Kim International School of Moscow, Russia	WS9 ROBOTICS FOR MATHEMATICS TEACHERS	OWLYPIA COMPETITION	MP29 NEW IDENTITIES OF K-TH ORDER PERRIN SEQUENCES Aleksander Bosek XIV LO im. St.Staszica, Poland
12:20 – 12:40	MP93 THE FIRST LEMOINE CIRCLE Martin Lofstrom Polhemskolan, Sweden	MP46 BLACK HOLES Gregory Chizhov International School of Moscow, Russia	WS23 PLAYING WITH FAIR AND BIASED COINS Karol Gryszka Pedagogical University of Cracow, Poland	OWLYPIA COMPETITION	MP31 SOME RESULTS ON THE APPLICATIONS OF MARKETING IN VIEW OF GAME THEORY Parsa Maleki Shahid Majdzadeh Highschool, Iran
12:40 – 13:00	MP95 MODELLING THE GREAT AND DIVINE COSMOS USING PRIME NUMBERS Napolina Yiannakou, ShengKun Zhao (Barbara) The Heritage Private School, Cyprus Iva Betlehem, Matej Matijasic, Hana Siroki Osnovna Skola Fran Koncelak, Croatia	MP47 ABSOLUTE ZERO Taekhyun Kim, Dongyoung Kim International School of Moscow, Russia	WS23 PLAYING WITH FAIR AND BIASED COINS	OWLYPIA COMPETITION	MP54 MATHEMATICS IN CRYPTOGRAPHY Khalid Mashal, Madeleine Rosenqvist, Talemwa Nanyange Turku International School, Finland
13:00 – 14:15	Lunch Break, Place: Place: MULTIFUNCTIONAL CONFERENCE CENTRE –Pantheon Restaurant (Level -1) Coupons offered by TopKinisis Travel to those who booked accommodation through them. Additional coupons for sale available at the registration desk				

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Saturday, 16 March 2019


MULTIFUNCTIONAL CONFERENCE CENTRE, Aliathon Resort, Paphos, Cyprus

Coordinators	C. Papagiannis, S. Loizias	
	 MATHFactor Europe 2019 Competitions – Finals Open to the public	
	<u>MATHFACTOR EUROPE 14-18 (Aphodite Hall , Level 0)</u>	
14.30 – 16.15	<p>MFU1 Number Pi, HR</p> <p>MFU2 How to win a cycling time trial by using maths?, SI</p> <p>MFU3 The magic of number nine, HR</p> <p>MFU4 Aristotle's Wheel paradox, SI</p> <p>MFU5 Mathematics in painting, HR</p> <p>MFU6 Pythagorean comma, SI</p> <p>MFU7 Mathematical Tricks, HR</p> <p>MFU8 Russian Multiplication: An unusual, yet practical way of multiplying for Computer Science, GR</p> <p>MFU9 Maths, money and bank, HR</p> <p>MFU10 How the pigeons found the socks, CY</p> <p>MFU11 Polygon in one cut, CY</p>	<p>MFU12 Board games and math, HR</p> <p>MFU13 Geometry, HR</p> <p>MFU14 Infinity of Prime Numbers, SI</p> <p>MFU15 Tally numbers, HR</p> <p>MFU16 Four dimensional cube, SI</p> <p>MFU17 Folk dancing, HR</p> <p>MFU18 How to make money for a living..., GR</p> <p>MFU19 Magic number eleven, HR</p> <p>MFU20 A life and death example of statistical errors, CY</p> <p>MFU21 Round coaster in a square hole, HR</p> <p>MFU22 Sudoku, HR</p>

EUROMATH & EUROSCIENCE 2019 – ASTUCON 2019 PROGRAMME

Saturday, 16 March 2019

MULTIFUNCTIONAL CONFERENCE CENTRE, Aliathon Resort, Paphos, Cyprus

16.15 – 18.15		MATH & SCIENCE Theatre Europe 2019 Competition – Finals (Aphrodite Hall) Open to the public
	Finalists	
	<u>MATH-SCIENCE THEATRE (Aphrodite Hall , Level 0)</u> MST1 Math is for all, LB MST2 Dispute of letters and numbers, CY MST3 Sweet percentages, HR MST4 The other (dimension), CY MST5 Math Heist, PL MST6 Magic vs Science, HR MST7 Science in School, NMK	
18:15 – 18.30	JUICE BREAK waiting for results , Place: Arion Bar	
	AWARDS CEREMONY (Aphrodite Hall, Level 0)	
Coordinator	C. Papagiannis, S. Loizias	
18.30 – 19.30	Results of MATH & SCIENCE Poster Design 2019 Competition Results of MATH & SCIENCE Theatre Europe 2019 Results of MATHFactor Europe 2019 Results of SCIENCEFactor Europe 2019 Results of MATHPresentation 2019 Competition Results SCIENCEPresentation 2019 Competition Other awards	
Sunday, 17 March 2019		
All day	Departures	