

EUROMATH & EUROSCIENCE 2023 / EU STEAME PROGRAMME

Saturday, 11 March 2023

Pedagogical University of Krakow, Poland

All day	Arrivals	
15.00 – 19.00	REGISTRATION Pedagogical University of Krakow, Poland Address: ul. Podchorążych 2, 30-084 Kraków Room : 118	Registration for Conference participants and Competition Finalists MATHPoster Design Competition - Submission of printed poster designs

Sunday, 12 March 2023

Pedagogical University of Krakow, Poland

8.30 +	REGISTRATIONS (ROOM 118): For Conference participants and competition finalists. MATH & SCIENCE Poster COMPETITION Submission of printed designs			
Place	Room A1 (Ground Floor)	Room A2 (First Floor)	Room A3 (First Floor)	Room 216 (Second Floor) Workshops
Coordinators	Tomasz Szemberg, Joanna Markowicz	Mirosława Sajka, Agnieszka Kowalska	Paulina Wiśniewska, Daniel Wójcik	Thomas Economou, Elpi Margariti
09:30 – 09:45	MP1 RATIONAL NUMBERS IN ARCHITECTURE AND CONSTRUCTION Amadea Filipović OŠ Braća Radić, Koprivnica, Croatia	MP51 THE RAMANUJAN SUMMATION Stephanie Antoniou, Marian Rostandi The Senior School, Nicosia, Cyprus	SP1 BERMUDA TRIANGLE Yali Vaknin, Gracie Chalhoub, Andreana Zardi, Rafaella Charalambous Med High Private English School, Larnaca, Cyprus	STEAME2 OPEN-ENDED PROBLEMS FOR EMPOWERING STUDENTS THINKING AND UNDERSTANDING <u>Valentina Gogovska</u> , UKIM University, Faculty of Natural Sciences and Mathematics-Skopje, Institute of Mathematics
09:45 – 10:00	MP2 MATHEMATICS AND FOOTBALL Leona Salajpal Osnovna skola „Braca Radic, Koprivnica, Croatia	MP52 BREAKFAST PROBLEMS Stephanos Artemis The Senior School, Nicosia, Cyprus	SP2 NEURALINK Naomi Gerber Med High Private English School, Larnaca, Cyprus	STEAME3 ENGLISH, KITES AND STEAME SKILLS <u>Daniela Florescu</u> , Liceul Teoretic Tudor Argezi, Craiova, Romania

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Coordinators	Tomasz Szemberg , Joanna Markowicz	Miroslawa Sajka , Agnieszka Kowalska	Paulina Wiśniewska , Daniel Wójcik	Thomas Economou , Elpi Margariti
10:00 – 10:15	MP3 INFLATION Marija Švegović Udruga mladih koprivničkih matematičara, Croatia	MP53 FINDING PRIME NUMBERS Michalis Gonatas The Senior School, Nicosia, Cyprus	SP3 PERFECT FREQUENCY Marina Mavros Med High Private English School, Larnaca, Cyprus	WS1 (FOR STUDENTS 30 MAX) BLINKING LIGHTS: SOLDER YOUR OWN CIRCUIT *DEUTSCHMANN Bernd, **MAIER Christoph, **JUCH Nikolaus** **TU-Graz, Head of Institute, **TU-Graz, Master Student, ***TU-Graz, Bachelor Student, Austria
10:15 – 10:30	MP4 MATH IN ASTRONOMY Antea Jelović OŠ Braća Radić, Koprivnica, Croatia	MP54 OPTIMAL STOPPING THEORY Raphael Son Ikossi Le The Senior School, Nicosia, Cyprus	SP4 TESLA MODEL 3 Dariia Khudobiak, Olga Georgiou, Maria Gryshko, Maria Karevina Med High Private English School, Larnaca, Cyprus	WS1 (FOR STUDENTS 30 MAX) BLINKING LIGHTS: SOLDER YOUR OWN CIRCUIT
10:30 – 10:45	MP5 MATHEMATICS IN HISTORY Juraj Ašić Osnovna skola „Braca Radic“, Koprivnica, Croatia	MP55 GUILTY OR NOT, MATH NEVER LIES Nicolina Christodoulou The Senior School, Nicosia, Cyprus	SP5 GUT BACTERIA Destine Akokcu Med High Private English School, Larnaca, Cyprus	WS1 (FOR STUDENTS 30 MAX) BLINKING LIGHTS: SOLDER YOUR OWN CIRCUIT
10:45 – 11:00	MP6 MATHEMATICS IN MUSIC Eva Papić Bogadi OS Antun Nemcic Gostovinski, Koprivnica, Croatia	MP42 TO HEAL MATHEMATICALLY Vernacchio Erika, Guerrera Salvatore, Del Gaudio Matteo Liceo scientifico “G. Rummo” Benevento, Italy	SP7 HOW COULD A WORLD NETWORK CURE CANCER WITH THE HELP OF MRNA VACCINES Konstantinos Zisimos 2nd High School of Chios, Greece	WS1 (FOR STUDENTS 30 MAX) BLINKING LIGHTS: SOLDER YOUR OWN CIRCUIT
11:00 - 11:30	MATH & SCIENCE BREAK			

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11:30 – 11:45	MP7 3ANGLES Marina Loizou, Myrianthi Savva, Daniella Biparva, Nancy Akar, Panagiota Antoniou American Academy Larnaca, Cyprus	MP43 MATHS & ARTIFICIAL INTELLIGENCES Del Gaudio Matteo, Fusco Antonio, Manocchio Giuseppe Liceo scientifico “G. Rummo” Benevento, Italy	SP8 CAUSES OF POTATO BLIGHT AND WAYS TO COMBAT IT Nikoloz Chkareuli, Dachi Bitsadze, Bachana Ardoteli Tbilisi International School, Georgia	WS1 (FOR STUDENTS 30 MAX) BLINKING LIGHTS: SOLDER YOUR OWN CIRCUIT
11:45 – 12:00	MP8 THE RULES OF LOGIC ARE TO MATHEMATICS WHAT THOSE OF STRUCTURE ARE TO ARCHITECTURE- BERTRAND RUSSELL Elisavet Papachristoforou, Panayiota Kyriacou, Andriana Nikola, Polina Louka, Ellie Afxentiou, Mariam Kotzia, Fotia Miltiadous American Academy Larnaca, Cyprus	MP56 THE DYNAMICAL BEHAVIORS OF THE LOTKA-VOLTERRA PREDATOR-PREY MODEL Nikolas Manousakis Moraitis School, Athens, Greece	SP9 A THEATRICAL REPRESENTATION OF THE CHROMOSOMAL MECHANISM OF CELL DEGENERATION Anastasia Nikoladze, Barbare Tabidze, Nia Jikia, Lindi Chokheli, Sandro Cercvadze, Luka Janadze Tbilisi International School, Georgia	WS3 (FOR STUDENTS 60 MAX) MATHEMATICS AND ROSETTE *Mara Grašić, **Željka Hanžek *Osnovna škola „Braća Radić“, Koprivnica, Croatia **Osnovna škola „Antun Nemčić Gostovinski“Koprivnica, Croatia
12:00 – 12:15	MP9 HEXAGONS ARE THE BESTAGONS Maximos Vardas, Savio Nahas, Haoxiang Ma American Academy Larnaca, Cyprus	SP33 NERVOUS SYSTEM, NUROTRANSMITTERS AND DRUG ADDICTION(ESPECIALLY IN TERMS OF DOPAMINE AND OPIOIDS) Tae-Won Kim, Tae-Hoon Kim, Jae-In Kim Osung Middle School, Dae-Goo, South Korea	SP10 NUCLEAR FUSION: ON THE WAY TO BECOME A TYPE I PLANETARY CIVILISATION John-Luke Ampatzidis, Michael Betzounis, Orestis Gkittersos, George Tsalikidis, Lampros Tsivelikas De La Salle College, Thessaloniki, Greece	WS3 (FOR STUDENTS 60 MAX) MATHEMATICS AND ROSETTE

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12:15 – 12:30	MP10 DESTINATION ; OUTER SPACE Elina Chili, Demetra Loukia Foulia, Christos Michael, Maria Papaloizou, Avgilina Kyriakidou, Konstantinos Rossos, Alexandra Christoforou Alexandrou American Academy Larnaca, Cyprus	SP34 CONNECTING NEWTON'S LAWS OF MOTION INTO THE WORLD OF SUBATOMIC PARTICLES WITH APPROACHING FOUR FENDAMENTAL FORCES Kwon Min-Hyeok, Choi Si-woo, Jung Joo-Won, Bok Min-Jae, Kim Nam-Ho Osung Middle School, Daegu, South Korea	SP11 BLACK HOLES. STRANGER THAN FICTION Christos Charalambous, Giorgos Hadjiconstantis The Grammar School, Nicosia, Cyprus	WS3 (FOR STUDENTS 60 MAX) MATHEMATICS AND ROSETTE
12:30 – 12:45	MP11 MATHEMATICS FIELD Christoforos Kekkou, Margarita Paraskevopoulou, Dimitris Georgiou, Giorgos Tsardellis, Stefanos Stylianou, Martin Stanev, Konstantinos Skordis American Academy Larnaca, Cyprus	SP35 UNDERSTANDING WORK-KINETIC ENERGY THEOREMS IN TERMS OF SCALAR QUANTATIES Seung-Heon Jang, Jun-Hong Park, Ji-Won Jung, Do-Yeop Kim Osung Middle School, Daegu, South Korea	SP12 REGENERATION OF THE WORLD Nefeli Kosti, Nikoletta Strati The Grammar School, Nicosia, Cyprus	WS3 (FOR STUDENTS 60 MAX) MATHEMATICS AND ROSETTE
12:45 – 13:00	MP12 MATHEMATICS PASS THROUGH THE PAST Lazaros Zeniou American Academy Larnaca, Cyprus	SP36 INVESTIGATING THE IMPACT OF ANGULAR DISTORTION ON COLOR AND WORD PROCESSING: A ROTATED STROOP TEST STUDY Ruda Lee*, Jiho Song** *Korea International School (KIS) 27, South Korea **Saint Paul Preparatory Seoul 14-8, South Korea	SP13 THE CONSTRUCTION OF REALITY BY THE BRAIN. A STUDY OF CONSCIOUSNESS Chara Siekkeri, Anthi Raftopoulou The Grammar School, Nicosia, Cyprus	
13:00 – 14:00 13.30 – 14.30	Lunch Break, Place: Bistro Piast, Piastowska 47 st. Coupons offered by TopKinisis Travel to those who booked accommodation through them. CHECK YOUR TIME OF ENTRY WRITTEN ON YOUR COUPON			

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14:45 – 15:00	MP13 Maths = Money? Eyal Israeli American Academy Larnaca, Cyprus	SP37 ENERGY EFFICIENT CLIMATE CONTROL Ko Aiden Sungmin Korea International School (KIS) 27, South Korea	SP6 TIME TRAVEL Lilian Michael, Lina Constantinou The English School Nicosia, Cyprus	WS1 –REPETITION (FOR STUDENTS 30 MAX) BLINKING LIGHTS: SOLDER YOUR OWN CIRCUIT *DEUTSCHMANN Bernd, **MAIER Christoph, **JUCH Nikolaus** **TU-Graz, Head of Institute, **TU-Graz, Master Student, ***TU-Graz, Bachelor Student, Austria
15:00 – 15:15	MP15 ESCAPE PLAN Christoforos Panayi The English School Nicosia, Cyprus	SP38 WEARABLE TECHNOLOGY IN SHOES Kwon Roy Byeong Jun*, Kim Morgan Jae Hyun**, Shin Woong Jay*** *Cornerstone Collegiate Academy of Seoul (CCAS), South Korea **Seoul Foreign School (SFS) 39, Seoul, South Korea ***St. Johnsbury Academy (SJA) 10, Special Self-Governing Province, South Korea	SP14 QUANTUM COMPUTING Lovro Golubic Gimnazija „Fran Galovic“, Koprivnica, Croatia	WS1-REPETITION (FOR STUDENTS 30 MAX) BLINKING LIGHTS: SOLDER YOUR OWN CIRCUIT
15:15 – 15:30	MP16 DID YOU KNOW THERE IS A WAY TO WIN AT CONNECT FOUR LITERALLY 100% OF THE TIME ? Panayiotis Pantelides The English School Nicosia, Cyprus	MP31 WHERE DO WE MEET FIBONACCI SEQUENCE ? Igor Martyna, Igor Pajor, Oskar Tomasik, I Liceum Ogólnokształcące, Tarnowie, Poland	SP15 VOLCANIC CHEMISTRY Antonis Pissarides The G.C. School of Careers, Nicosia, Cyprus	WS1-REPETITION (FOR STUDENTS 30 MAX) BLINKING LIGHTS: SOLDER YOUR OWN CIRCUIT

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15:30 – 15:45	MP17 CRIMINAL MATHS Maya Maria Stavrinidou, Irene Yianna, Mariza Zembyla The English School Nicosia, Cyprus	MP33 NON-EUCLIDEAN GEOMETRY Kacper Maciuszek, Natalia Zając I Liceum Ogólnokształcące im. Kazimierza Brodzińskiego w Tarnowie, Poland	SP16 TRAVELLING WITH TIDES Giorgos Alexandrou, Marcos Phinikarides The G.C. School of Careers, Nicosia, Cyprus	WS1-REPETITION (FOR STUDENTS 30 MAX) BLINKING LIGHTS: SOLDER YOUR OWN CIRCUIT
15:45 – 16:00	MP28 THE STARS AND MATHS 2000 YEARS AGO Alexandros Parikian, Panagiotis Charitou The English School Nicosia, Cyprus	MP44 ALL SUSPEND ON A CATENARY Landołfi Domenico, Boscaino Bruno, Mancini Luigi, Poppa Gabriele, Petracaro Mario, Cocca Martina Liceo scientifico "G. Rummo" Benevento, Italy	SP28 INVESTIGATING THE FUTURE OF AVIATION IN REGARDS TO THE DEVELOPMENT OF HYDROGEN CELLS AND THEIR APPLICATION Desislava Markova, Meriem Fereva, Valeria Topalova, American College of Sofia, Bulgaria	WS1-REPETITION (FOR STUDENTS 30 MAX) BLINKING LIGHTS: SOLDER YOUR OWN CIRCUIT
16:00 – 16:15	MP64 EQUIVALENT GENERATION IN REAL CASES Zicheng Wang The G.C. School of Careers, Nicosia, Cyprus	MP45 GÖDEL AND THE PUZZLE OF INCOMPLETENESS : A WINDOW TO INFINITY Mario Petracaro Liceo scientifico "G. Rummo" Benevento, Italy	SP39 THE BENEFITS OF VITAMIN C Hermes Arampatzis Charistos De La Salle College, Thessaloniki, Greece	WS7 (FOR STUDENTS AND TEACHERS MAX 60) HAVE FUN WITH SECRET CODES Eleni Papageorgiou Teacher Trainer in Mathematics, Cyprus Pedagogical Institute, Cyprus
16:15 – 16:30	MP29 MATHEMATICS BEHIND GALAXIES'S SHAPE Xenia Pierides, Elli Louiza Porfyridou, Anastasia Tantele The English School Nicosia, Cyprus	MP46 MATHS AT THE MOVIES Vittoria Panarese, Chiara De Nigris, Christian Ianaro, Simone Ianaro Liceo scientifico "G. Rummo" Benevento, Italy	MP34 MATHEMATICS IN MEDICINE Ana-Marija De Conti, Laura Mesar Gimnazija „Fran Galovic“ Koprivnica, Croatia	WS7 (FOR STUDENTS AND TEACHERS MAX 60) HAVE FUN WITH SECRET CODES
16:30 – 16:45			MP35 MATH BEHIND THE DESIGN OF THE GREAT PYRAMID OF GIZA Eva Pavlovic, Petra Pozgaj Gimnazija "Fran Galovic" Koprivnica, Croatia	WS7 (FOR STUDENTS AND TEACHERS MAX 60) HAVE FUN WITH SECRET CODES MAY BE EXTENDED FOR 30 MORE MIN

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Sunday, 12 March 2023

Pedagogical University of Krakow, Poland

Opening Ceremony

EUROMATH and EUROSCIENCE Conference 2023, European STEAME Conference 2023

Main Conference Room: NOVOTEL KRAKOW CITY WEST HOTEL

Invited speaker PL1

HOW THE INVENTION OF THE MICROCHIP CHANGED OUR WORLD

Bernd Deutschmann, Professor of Electronics,

Head of Institute of Electronics, Technical University of Graz, Austria

SEE SEPARATE DETAILED CONFERENCE OPENING PROGRAMME



(click [HERE](#)) or SCAN

18:00 – 19:30

19:30 – 20:00

RECEPTION OFFERED BY THE PEDAGOGICAL UNIVERSITY OF KRAKOW

Place: Novotel City West Hotel

EUROMATH & EUROSCIENCE 2023 / EU STEAME PROGRAMME

Monday, 13 March 2023

Pedagogical University of Krakow, Poland

REGISTRATIONS (ROOM 118): For Conference participants and competition finalists

Place	Room A1 (Ground Floor)	Room A2 (First Floor)	Room A3 (First Floor)	Room 216 (Second Floor) Workshops
Coordinators	Barbara Barańska , Marcin Zieliński	Maria Skupień , Joanna Markowicz	Karol Gryszka , Jakub Kabat	Thomas Economou
09:30 – 09:45	MP18 THE LABYRINTH OF MATHS IN OUR BRAIN! Ioanna Christofidou, Andreas Anastasi The English School Nicosia, Cyprus	MP61 SKETCHING GRAPHS OF POLYNOMIAL FUNCTIONS WITH A RESTRICTED NUMBER OF CUES Shin Ji Min, Shin Jung Heon Osung Middle School, Daegu, South Korea	SP17 THEORY OF RELATIVITY Loucas Nicolaides, Andreas Stylianos, Antonis Pissarides The G.C. School of Careers, Nicosia, Cyprus	WS2 (FOR STUDENTS AND TEACHERS 60 MAX) MATHEMATICS THROUGH MOVEMENT *Mara Grašić, **Željka Hanžek *Osnovna škola „Braća Radić“, Koprivnica, Croatia **Osnovna škola „Antun Nemčić Gostovinski“ Koprivnica, Croatia
09:45 – 10:00	MP19 MATHS IN THE CASINO Gerasimos-Georgios Panayides, Chariton Charitonos, Garry Petrossian The English School Nicosia, Cyprus	MP62 FRACTALS AND ITS IMPLICATIONS WITHIN ARCHITECTURE Emily Namhyun Cho Asia Pacific International School (APIS), Seoul, South Korea	SP18 RADIO COMMUNICATION WITH THE INTERNATIONAL SPACE STATION Andreas Tsiakkouris The G.C. School of Careers, Nicosia, Cyprus	WS2 (FOR STUDENTS AND TEACHERS 60 MAX) MATHEMATICS THROUGH MOVEMENT
10:00 – 10:15	MP20 MATHEMATICAL ESCAPES Elena Potamiti The English School Nicosia, Cyprus	MP36 MATHEMATICS IN CAR INDUSTRY Simon Sovic, Martin Majerus Gimnazija „Fran Galovic“ Koprivnica, Croatia	SP29 THE SKIN OF THE EARTH Raman Vasiuk The Senior School, Nicosia, Cyprus	WS2 (FOR STUDENTS AND TEACHERS 60 MAX) MATHEMATICS THROUGH MOVEMENT
10:15 – 10:30	MP21 IS YOUR BIRTH DATE JUST A NUMBER ? Riana Georgiadi, Theodora Constantinou The English School Nicosia, Cyprus	STEAME4 THE EU PROJECT: FACILITATE ARTIFICIAL INTELLIGENCE Andreas Skotinos, Vice President, Cyprus Mathematical Society Gregory Makrides, President, Cyprus Mathematical Society	SP30 DESTINATION (UN)KNOWN Stephanos Artemis, Simona Mitsi The Senior School, Nicosia, Cyprus	WS4 (FOR TEACHERS 60 MAX) A METHODOLOGY FOR ADDING ELEMENTS OF MATHEMATICS COMPETITIONS TO THE EDUCATIONAL PROCESS IN THE UPPER GRADES OF BASIC SCHOOL Maksim Ivanov, Natalia Ivanova, Julia Klochkova, Hiie Asser Tartu Annelinna Gymnasium, Tartu, Estonia

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10:30 – 10:45	MP22 INFINITY Giannis Stavrou, Giorgos Hadjikyriakou, Nicolas Anastasiades The English School Nicosia, Cyprus	STEAME 4 THE EU PROJECT: FACILITATE ARTIFICIAL INTELLIGENCE	SP20 FORMATION OF COPPER METAL CRYSTALS BY ELECTROLYSIS Jingwen Fu, Aimilios Papatotiriou The G.C. School of Careers, Nicosia, Cyprus	WS4 (FOR TEACHERS MAX 60) A METHODOLOGY FOR ADDING ELEMENTS OF MATHEMATICS COMPETITIONS TO THE EDUCATIONAL PROCESS IN THE UPPER GRADES OF BASIC SCHOOL
10:45 – 11:00	MP23 IF SOCIAL MEDIA IS A MUST, THEN MATHS IS THE MUST OF THE MUST Aglaiia Patsalides, Athanasia Mavrotheri The English School Nicosia, Cyprus	STEAME5 STEAME GOES HYBRID: BLUEPRINT GUIDELINES AND POLICY RECOMMENDATIONS Gregory Makrides, President, Cyprus Mathematical Society Andreas Skotinos, Vice President, Cyprus Mathematical Society	SP19 ROCKET FUEL FROM EVERY-DAY MATERIALS Ioannis Theocharides, Charis Charilaou, Konstantinos Kaniklides, Andreas Iacovides The G.C. School of Careers, Nicosia, Cyprus	WS4 (FOR TEACHERS MAX 60) A METHODOLOGY FOR ADDING ELEMENTS OF MATHEMATICS COMPETITIONS TO THE EDUCATIONAL PROCESS IN THE UPPER GRADES OF BASIC SCHOOL
11:00 – 11:30	MATH & SCIENCE BREAK			
11:30 – 11:45	MP24 HOW TO USE MATHEMATICS TO CHOOSE A LIFE PARTNER Maria Christina Economides, Yiolanda Liveri, Alexandra Georgiou The English School Nicosia, Cyprus	MP37 UNEXPECTED MATHEMATICS Angelos Christoforou, Kyriacos Antoniadis, Aris Pappalis, Theocharis Karatsiolis The G.C. School of Careers, Nicosia, Cyprus	SP31 FERROMAGNETISM Alexander Anton Faskevich The Senior School, Nicosia, Cyprus	WS5 (FOR TEACHERS MAX 60) MATHEMATICAL THEATRE Yiannis Lazarou Mathematics (STEAM) Teacher, Pancyprrian Gymnasium Nicosia, Cyprus
11:45 – 12:00	MP25 HOW MATHEMATICS IMPACTED THE COURSE OF WW2 Filaretos Ierotheou, Damianos Hambakis The English School Nicosia, Cyprus	MP38 THE ROUTE Aikaterini Pilidi, Eva-Christina Christodoulou The G.C. School of Careers, Nicosia, Cyprus	SP32 CAN WE LIVE ON MARS? Theodora Gorman The Senior School, Nicosia, Cyprus	WS5 (FOR TEACHERS MAX 60) MATHEMATICAL THEATRE


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12:00 – 12:15	MP26 HOW CAN MATHS TRAVEL AROUND THE WORLD Sophia Anastasi, Efi Zanou, Mariella Leptou The English School Nicosia, Cyprus	MP39 MATHS IN SEA WAVES Sotia Koukou, Konstantinos Patinios, Nikolas Xiouros The G.C. School of Careers, Nicosia, Cyprus	SP24 ARCHITECTURE ON PLANETS! Mohamed Ben Zerti Med High Private English School, Larnaca, Cyprus	WS5 (FOR TEACHERS MAX 60) MATHEMATICAL THEATRE
12:15 – 12:30	MP27 HOW ANIMALS USE MATH Ioannis Ioannou, Platon Trapelides, Leonidas Sfaltos The English School Nicosia, Cyprus	MP40 MATHS IN MAGIC TRICKS Michalis Dionysis Vassiliou The G.C. School of Careers, Nicosia, Cyprus	SP22 LICHTENBERG FIGURE Chrysi Topouzidou, Anastasia Perentzi, Dimitra Taltampani, Terpsichori Loupi De La Salle College, Thessaloniki, Greece	WS5 (FOR TEACHERS MAX 60) MATHEMATICAL THEATRE
12:30 – 12:45	MP47 GEOMETRY OF EUCLID AND GEOMETRY OF LOBACHEVSKY Sofia Andrusenko 8-V Class, Ukrainian College No. 272, Kyiv, Ukraine	MP41 THROUGH THE VIVIANI'S WINDOW Antonina Dulak, Joanna Szczęśna VII Liceum Ogólnokształcące im. Zofii Nałkowskiej, Poland	SP23 THE END OF CERTAINTY: PROJECTION OF QUANTUM BEHAVIOR ONTO THE MACROSCALE Athanasia Dalakoura Axion Schools, Xanthi, Greece	WS5 (FOR TEACHERS MAX 60) MATHEMATICAL THEATRE
12:45 – 13:00	MP32 SUMMATION, NUMBERS AND SHAPES IN GEOMETRY Giorgi Ratiani, Lizi Katamadze, Mariam Jikia, Lela Ardoteli Tbilisi International School, Georgia	MP63 EULER'S GRAPH THEORY AND ITS APPLICATION IN REAL LIFE Park Seoyul, Kim Donggeon Daegu International School, Daegu, South Korea	SP21 THE FUTURE OF CANCER IMMUNOTHERAPY: CAR-T CELL THERAPY Anna Mouzourou, Andrea Miltiadous, Panayiotis Aristotelous The G.C. School of Careers, Nicosia, Cyprus	
13:00 – 14:00 13:30 – 14:30	Lunch Break, Place: Bistro Piast, Piastowska 47 st. Coupons offered by TopKinisis Travel to those who booked accommodation through them. CHECK YOUR TIME OF ENTRY WRITTEN ON YOUR COUPON			

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14:45 – 15:00	STEAME1 SCIENTIX THE COMMUNITY FOR SCIENCE EDUCATION IN EUROPE. TAKE PART IN THE STEM DISCOVERY CAMPAIGN! Katarzyna Kwiatek-Grabarska Scientix Ambassador / Complex of Schools No. 5, Zabrze, Poland,	MP48 BEES AS MATHEMATICIANS Andriana Hadjisophocleous, Erato Gavri, Christina Prodromiti The Grammar School, Nicosia, Cyprus	SP25 THE TOXICITY OF HEAVY METALS AND THEIR EFFECTS ON HUMANS AND THE ENVIRONMENT Avramidou Panagiota, Dedousi Ismini De La Salle College, Thessaloniki, Greece	WS6 (FOR STUDENTS AND TEACEHRS MAX 60) KAHOOT QUIZ Mara Grasic*, Bojana Habek** OS „Braca Radic“ Korivnica; Gimnazija „Fran Galovic“ Koprivnica, Croatia
15:00 – 15:15	MP14 THE UNIVERSE IN A CALCULATOR Petra Bušljeta, Zrinka Miškić, Nika Tomljanović, Lana Vučetić Prva riječka hrvatska gimnazija, Croatia	MP49 MATHEMATICS AND THE ART OF POKER Marios Varnava The Grammar School, Nicosia, Cyprus	SP26 THE EFFECT OF INTESTINAL MICROBIOME ON HUMAN MENTAL AND PHYSICAL HEALTH – A CONNECTION BETWEEN THE INTESTINAL AND NEURAL SYSTEM Stathi Krystallia-Maria, Fragkoulidou Sofia, Timamopoulou Angeliki De La Salle College, Thessaloniki, Greece	WS6 (FOR STUDENTS AND TEACEHRS MAX 60) KAHOOT QUIZ
15:15 – 15:30	MP30 THE COLLATZ CONJECTURE Vitos Fotios, Vrontos Dimitrios, Gourdoupari Nefertiti, Karpouzis Christos Varvakeio Model High School, Athens, Greece Supervisor Professor: Zinon Ligatsikas	MP50 RISK IT FOR THE BISCUIT: CAN WE USE RISK AND PROBABILITY TO MAKE BETTER LIFE CHOICES AND SUCCEED? Odysseas Leonidou The Grammar School, Nicosia, Cyprus	SP27 THE CONSEQUENCES OF THE POLAR ICE MELTDOWN AND THE GREENHOUSE PHENOMENON A.Samaras, S.Drepanidis, O.Arampatzis De La Salle College, Thessaloniki, Greece	WS6 (FOR STUDENTS AND TEACEHRS MAX 60) KAHOOT QUIZ

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Monday, 13 March 2023 Pedagogical University of Krakow, Poland	
	MATH & SCIENCE Poster Design Competition ends.
Place	Room: Conference Room, NOVOTEL City West hotel
Coordinators	C. Papagiannis, T. Economou, E. Margariti
16:00 – 19:00	<div style="display: flex; align-items: center;">  <div> <p>MATH & SCIENCE Factor Europe 2023 Competitions – Finals</p> <p>Open to the public</p> </div> </div>
Finalists Levels 9-13 years old	
<p>MSFL1. “Math and tennis”, Mia Gregurina, OŠ "Braća Radić" Koprivnica, Croatia</p> <p>MSFL2. “Mathematics in History”, Juraj Aščić, OŠ "Braća Radić" Koprivnica, Croatia</p> <p>MSFL3. “Mathematics and music”, Amadea Filipović, OŠ "Braća Radić" Koprivnica, Croatia</p> <p>MSFL4. “Math, Natural Numbers and Sudoku”, Jiyul, Kim, Daegu Samyook Elementary School, South Korea</p> <p>MSFL5. “Mathematics and astronomy”, Antea Jelović, OŠ "Braća Radić" Koprivnica, Croatia</p> <p>MSFL6. “Perfect numbers”, Anja Horvat, OŠ "Braća Radić" Koprivnica, Croatia</p> <p>MSFL7. “Algorithm for solving quadratic equations”, Laura Šifkorn, OŠ "Braća Radić" Koprivnica, Croatia</p> <p>MSFL8. “Can we see a Ghost?”, Dohyeok Kwon, Daegu Dongdo Elementary School, South Korea</p> <p>MSFL9. “Mathematics and time”, Marta Gregurina, OŠ "Braća Radić" Koprivnica, Croatia</p> <p>MSFL10. “Japanese calculating”, Erik Žeželj, OŠ "Braća Radić" Koprivnica, Croatia</p> <p>MSFL11. “Interesting facts about the time on the clock”, Gloria Martošić, OŠ "Braća Radić" Koprivnica, Croatia</p> <p>MSFL12. “Secret of Venus”, Ki Yun Jung, Daegu Maedong Elementary School, South Korea</p> <p>MSFL13. “Math and football”, Leona Salajpal, OŠ "Braća Radić" Koprivnica, Croatia</p> <p>MSFL14. “The biggest numbers in math”, Matej Markovinović, OŠ "Braća Radić" Koprivnica, Croatia</p> <p>MSFL15. “Number 7”, Marin Bojanovic, Osnovna skola "Antun Nemcic Gostovinski" Koprivnica, Croatia</p>	

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Finalists 14-18 years old

- MSFU1. "Main Sequence Star", Do yeop Kim, O-sung Middle School, Daegu, South Korea
MSFU2. "Calculate as pharmacist", Marija Švegović, OŠ "Braća Radić" Koprivnica, Croatia
MSFU3. "Gyroscopes resist to gravity", Minhyeok Kwon, O-sung Middle School, Daegu, South Korea
MSFU4. "Math & Music", Eva Papic Bogadi, Osnovna skola "Antun Nemic Gostovinski" Koprivnica, Croatia
MSFU5. "Orbital eccentricity", Kim Namho, O-sung Middle School, Daegu, South Korea
MSFU6. "AI Take Over", Aikaterini Stephanou, Lyceum of Aradippou, Cyprus
MSFU7. "History of the periodic table", Jang Seung Heon, O-sung Middle School, Daegu, South Korea
MSFU8. "Nina and the twelve lions", Eirini Panagi, Xylofagou Gymnasium, Cyprus
MSFU9. "Where did my memory go?", Ruda Lee, South Korea
MSFU10. "Vitamin C", Marija Švegović, Udruga mladih koprivničkih matematičara, Croatia

Dinner Dance "Mathematics and Science by Night",

Place: Premier Krakow Hotel, ul. Opolska 14a, 31-323 Krakow.

20:30 – 00:30

Bus transfers begin every 10 min at 19.30

Check your bus number at registration announcements BUS1, BUS2, BUS3, BUS4, BUS5, BUS6

If you miss the bus you need to arrange your own transfer, it is 2,5 km walking distance or use a taxi.


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Tuesday, 14 March 2023				
NOVOTEL CITY WEST				
Place	Hotel Conference Room ONLINE SESSION			
Coordinators	Pawel Solarz			
10:00 – 10:15	MP57-ONLINE INNOVATIVE SOLUTION OF FRACTIONAL PROBLEMS AND A SUMMARY OF ITS METHODS Nahal Mannani Zanjan Sama Elementary School, Zanjan, Iran			
10:15 – 10:30	MP58-ONLINE VISUAL SOLUTION OF FRACTIONAL PROBLEMS AND EQUATIONS Shayan Hasani Zanjan Iranin First Grade High school, Zanjan, Iran			
10:30 – 10:45	MP59 -ONLINE APPLICATION OF BOOLEAN ALGEBRA IN THE DESIGN OF DIGITAL COUNTERS Diana Mannani Farzangan Zanjan First Grade High School, Iran			
10:45 – 11:00	MP60 - ONLINE APPLICATION OF THE REMAINDER OF DIVISION IN SOLVING IMPORTANT MATHEMATICAL PROBLEMS Seyedeh Elisa Hashemi Zanjan Sama Elementary School, Zanjan, Iran			

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Tuesday, 14 March 2023 Bistro Piast, Piastowska 47 st. Pedagogical University of Krakow, Poland	
Coordinators	C. Papagiannis, E. Papageorgiou, E. Margariti
9.30 – 12.00	<p>MATH & SCIENCE Theatre Europe 2023 Competition – Finals (Theatre stage, Bistro Piast, Piastowska 47 st.) (Open to the public)</p> 
	Finalists Level 9-13 years old
	<p>Level 9-13 years MSTL1. "What's Math got to do with Fencers and Magicians?", Liceul Teoretic Tudor Arghezi & Jacstyle Model&Talent Agency, Romania MSTL2. "The broken TV-control", Pagkyprion Gymnasiun Nicosia, Cyprus MSTL3. "The three problems of Geometry", I.M.Panagiotopoulos School, Greece MSTL4. "Fermanji", Szkoła Podstawowa im. J. Korczaka w Zabierzowie, Poland MSTL5. "Your hat, your life!!!", Xylofagou Gymnasium, Cyprus MSTL6. "Roots, Stem, Leaves, Flower", Jacstyle Model&Talent Agency, Romania</p>
	Finalists Level 14-18 years old
	<p>Level 14-18 years MSTU1. "Irrationals", The English School Nicosia, Cyprus MSTU2. "Five Senses", South Korea group of students, South Korea MSTU3. "Seventeenth Night, Apostol Doxiadis", Lykeio Kokkinochoriwn "Foti Pitta", Cyprus</p>
13:00 – 14:00 13:30 – 14:30	<p>Lunch Break, Place: Bistro Piast, Piastowska 47 st. Coupons offered by TopKinisis Travel to those who booked accommodation through them. CHECK YOUR TIME OF ENTRY WRITTEN ON YOUR COUPON</p>
15.00+	Optional Excursions privately arranged

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Tuesday, 14 March 2023 NOVOTEL City West Hotel, Krakow	
AWARDS CEREMONY (Place: Conference room at the NOVOTEL City West Hotel)	
3.14 PM	<p>PUBLIC MEDIA STATEMENTS STEAME-Students Press Conference : European STEAME School Students Network (E3SN) Prof. Gregory Makrides, Chair of the EMS Education Committee Prof. Piotr Borek, Rector of the Pedagogical University of Krakow, Poland</p> <div style="text-align: right;">  <p>INTERNATIONAL DAY OF MATHEMATICS MARCH 14</p> </div>
Coordinators	C. Papagiannis, A. Charalambous, E. Papageorgiou, E. Margariti
15.15 – 17.00	<p>Results of MATH & SCIENCE Poster Design 2023 Competition Results of MATH & SCIENCE Theatre Europe 2023 Results of MATH & SCIENCE Factor Europe 2023 Results of MATHPresentation 2023 Competition Results SCIENCEPresentation 2023 Competition Results of best ETHOS award during the conference</p>
Wednesday, 15 March 2023	
All day	Optional Excursions and Departures (privately arranged)

Conference Area Spaces and Rooms



Region Campus Map

