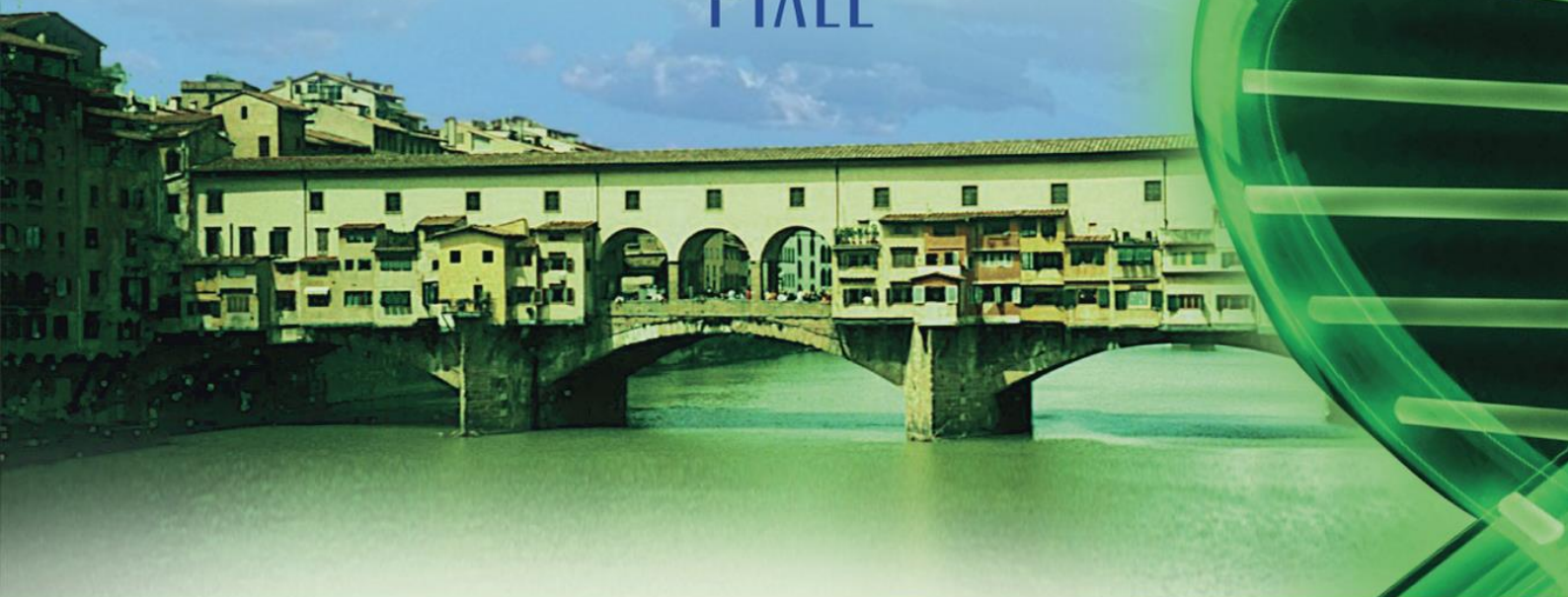


**International Conference
New Perspectives
in Science
Education**



CONFERENCE PROGRAMME

**21 – 22 March 2019
Grand Hotel Mediterraneo
Lungarno del Tempio 44 – Florence, Italy**





Thursday 21 March

Room A 9:35 – 11:15	Room B 9:35 – 11:15	Room C 9:35 – 11:15
Science and Engineering	Educational Strategies	Curriculum Development

Coffee Break 11:15 – 11:25

Poster Session: 11:25 – 11:45

Room A 11:45 – 13:00	Room B 11:45 – 13:00	Room C 11:45 – 13:00
Educational Strategies	Workshop Science Education and European Projects: The ZOE Case Study	Pre-Service Teachers' Professional Development

Lunch 13:00 – 14:30

Room A 14:30 – 16:10	Room B 14:30 – 16:10	Room C 14:30 – 16:10
Chemistry Education	Science Teachers' Training	Pre-Service Teachers' Professional Development

Coffee Break 16:10 – 16:20

Poster Session: 16:20 – 16:40

Room A 16:40 – 18:20	Room B 16:40 – 18:20	Room C 16:40 – 18:20
Preschool and Primary Education	Science Education and Special Needs	Enhancing Students' Motivation

Friday 22 March

Room A 9:10 – 11:15	Room B 9:10 – 11:15	Room C 9:10 – 11:15
Health Education	STEM Education	Scientific Research and Social Development

Coffee Break 11:15 – 11:25

Poster Session: 11:25 – 11:45

Room A 11:45 – 13:00	Room B 11:45 – 13:00	Room C 11:45 – 13:00
New Technologies in Science Education	Workshop QUAL4T2: Effective Team Work as the Trigger to Quality Improvement in Education	Students' Assessment

Lunch 13:00 – 14:30

Room A 14:30 – 16:10	Room B 14:30 – 16:10	Room C 14:30 – 15:45
Chemistry Education and Environment	Studies in Science Education	Science Teachers' Training

Coffee Break 16:10 – 16:20

Poster Session: 16:20 – 16:40

Room A 16:40 – 17:55	Room B 16:40 – 17:55
New Technologies in Science Education	Students' Assessment



Thursday 21 March 2019

Morning Session: 9:00 – 13:00

Room A 9:00 – 9:10

Introductory Speech and Practicalities

Room A: Opening Speech 09:10 – 09:30

Whither Science Education

Mary Oliver, University of Nottingham (United Kingdom)

Room A 9:35 – 11:15	Room B 9:35 – 11:15	Room C 9:35 – 11:15
Science and Engineering <i>Thomas Waitz, Georg-August-University Göttingen (Germany)</i>	Educational Strategies <i>Martin Musumeci, University of Malta (Malta)</i>	Curriculum Development <i>Masao Mori, Tokyo Institute of Technology (Japan)</i>
<p>Interdisciplinary Educational Experiences for Engineering Students <i>Craig Gelowitz, University of Regina (Canada)</i></p> <p>Changes in Working Life Create Challenges to Engineering Education <i>Lea Mustonen - Susan Heikkilä, Häme University of Applied Sciences (Finland)</i></p> <p>Using Low-Cost Hardware to Teach Mechatronics in a Project-Based University Course <i>Jörn Kretschmer, Furtwangen University (Germany)</i></p> <p>Study of Tuned Mass Damper for Attenuating Skyscraper Oscillations through Project-Based Learning <i>Dante Jorge Dorantes - Gonzalez, MEF University (Turkey)</i></p>	<p>Qatari Teachers and Students' Views and Experiences of Inquiry-Based Learning through "WebQuests and Exploratory Talk" in Science <i>Nasser Mansour, University of Exeter (United Kingdom)</i></p> <p>Reframing Classroom Discourse through the Lens of Benefit to Cost Ratios <i>Andy Cavagnetto, Washington State University (United States)</i> <i>Brian Hand, University of Iowa (United States)</i></p> <p>Underlying Frameworks in Academic Education <i>Edwin Koster, Vrije Universiteit Amsterdam (The Netherlands)</i></p> <p>Problem-Based Learning: ProLearn4ALL Project Contributions <i>Carla Freire, Politécnico de Leiria (Portugal)</i></p>	<p>Attractiveness of Programs for Students, Heterogeneity of Higher Educational System, Typology and Efficiency of Universities <i>Fuad Aleskerov, National Research University - Higher School of Economics and Institute of Control Sciences of Russian Academy of Sciences (Russian Federation)</i></p> <p>Scientific Literacy: Who Needs it in a 'Black Box' Technological Society? <i>Nikolaos Fotou - Ian Abrahams - Marina Constantinou University of Lincoln (United Kingdom)</i></p> <p>Creating Better Science General Education Courses through a Comprehensive Curricular Redesign <i>Amy Young, Dominican University of California (United States)</i></p> <p>The Self-Domain in Science as a Means of Critical Thinking Development <i>Carloalberto Petti, Institute of Technology Carlow (Ireland)</i></p>

Coffee Break 11:15 – 11:25

Poster Session: 11:25 – 11:45

Room A 11:45 – 13:00	Room B 11:45 – 13:00	Room C 11:45 – 13:00
Educational Strategies <i>Susan Heikkilä, Häme University of Applied Sciences (Finland)</i>	Workshop Science Education and European Projects: The ZOE Case Study	Pre-Service Teacher's Professional Development <i>Anne Henderson, Florida Atlantic University Center for Environmental Studies (United States)</i>
<p>Does it really Work then? Practical Work in Undergraduate Science Education <i>Ian Abrahams - Marina Constantinou, University of Lincoln (United Kingdom)</i></p> <p>Prism - To View Science from Different Aspects <i>Oshrit Navon - Man, Davidson Institute of Science, Weizmann Institute of Science (Israel)</i></p> <p>Reconsidering Spontaneous Analogical Reasoning through the Knowledge in Pieces Mechanism <i>Nikolaos Fotou - Ian Abrahams, Lincoln University (United Kingdom)</i></p>	<p>Introduced by: <i>Ombretta Pediconi, Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise (IZSAM) (Italy)</i> <i>Antonio Giordano, Pixel (Italy)</i></p> <ul style="list-style-type: none"> • Science Education and European Projects: an Introduction to the ZOE Project • The Role of Scientific Partners in European Projects: Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale" within the ZOE Project • The Advantages of the E-Learning: The ZOE Online Courses • Questions and Answers' Session <p>The specific topics will be identified with reference to the participants' suggestions posted on the conference pinboard available in the poster session area.</p>	<p>Pre-Service Teachers' Challenges and Affordances in Implementing Inquiry-Based Science Teaching at Lower Primary <i>Maria I. Maya Febri - Ragnhild Lyngved Staberg, Norwegian University of Science and Technology (Norway)</i></p> <p>Prospective Primary School Teachers' Difficulties when Dealing with Multiplying Fraction Word Problems <i>Alberto Arnal-Bailera, University of Zaragoza (Spain)</i></p> <p>Escape Rooms as a Way to Teach Magnitudes and Measure in Degrees in Education <i>Mónica Arnal-Palacián, Universidad Rey Juan Carlos (Spain)</i></p>

Lunch 13:00 - 14:30



Thursday 21 March 2019

Afternoon Session: 14:30 – 18:20

Room A 14:30 – 16:10	Room B 14:30 – 16:10	Room C 14:30 – 16:10
<p style="text-align: center;">Chemistry Education <i>Devin Latimer, University of Winnipeg (Canada)</i></p>	<p style="text-align: center;">Science Teacher Training <i>Rachael Sharpe, University of Lincoln (United Kingdom)</i></p>	<p style="text-align: center;">Pre-Service Teacher's Professional Development <i>Nikolaos Fotou, University of Lincoln (United Kingdom)</i></p>
<p>Professionalization of Tutors in Chemistry: Conceptual Perspectives for the Design of a Tutor School <i>Nele Milsch - Thomas Waitz, Georg-August-University Göttingen (Germany)</i></p> <p>Dealing with Students' Undesired Responses to Teachers' Oral Questions in Chemistry Classrooms: Exploring Effective Feedback Practices <i>Festo Kayima, Norwegian University of Science and Technology (Norway)</i></p> <p>Spectroscopy in a Suitcase: A Model for Implementing and Coordinating a National Chemistry Education and Public Engagement Programme in Ireland <i>John O'Donoghue, Trinity College Dublin (Ireland)</i></p> <p>A Comparative Analysis of the High School Chemistry Curriculum Objectives in Czechia and Turkey Based on the Revised Bloom's Taxonomy <i>Ridvan Elmas - Martin Rusek - Martin Bilek, Charles University (Czech Republic)</i> <i>Koray Kasapoglu, Afyon Kocatepe University (Turkey)</i></p>	<p>Development of Creativity Using a Method of "Intuitive Aesthetics": Results of En Plein Airs (Vilnius, Lithuania, 2018) <i>Tatiana Kharitonova, The State Hermitage Museum (Russian Federation)</i></p> <p>Science Teachers and Technology - Be Aware or Beware? <i>Nitzan Koren, Tel Aviv University (Israel)</i></p> <p>Levels of Teacher Self-Efficacy and Emotions Expressed by Teachers in Training STEM Areas <i>Guadalupe Martínez Borreguero - Milagros Mateos-Núñez, University of Extremadura (Spain)</i></p> <p>Inter-University Project on Collaborative Physics Workshops: An Ibero-American Experience <i>Iñigo Rodríguez-Arteche, Universidad Rey Juan Carlos (Spain)</i></p>	<p>How to Form Creative Learners in Science <i>Ann Mutvei, Södertörn University (Sweden)</i></p> <p>Evaluation of Educational Digital Stories Prepared by Science Pre-Service Teachers <i>Zeynep Yurtseven-Avci - Munise Seckin-Kapucu, Eskisehir Osmangazi University (Turkey)</i></p> <p>Training Pre-Service Teachers to Connect Biology Teaching to Daily Life: Role of Positive Emotions <i>José María Marcos-Merino - Rocío Esteban Gallego, University of Extremadura (Spain)</i></p> <p>Digital Story-Telling to Improve 21st Century Skills: Pre-Service Science Teachers' Reflections <i>Munise Seckin-Kapucu - Zeynep Yurtseven-Avci, Eskisehir Osmangazi University (Turkey)</i></p>

Coffee Break 16:10 – 16:20

Poster Session: 16:20 – 16:40

Room A 16:40 – 18:20	Room B 16:40 – 18:20	Room C 16:40 – 18:20
<p style="text-align: center;">Preschool and Primary Education <i>Maria I. Maya Febri, Norwegian University of Science and Technology (Norway)</i></p>	<p style="text-align: center;">Science Education and Special Needs <i>Festo Kayima, Norwegian University of Science and Technology (Norway)</i></p>	<p style="text-align: center;">Enhancing Students' Motivation <i>Marie Walsh, Limerick Institute of Technology (Ireland)</i></p>
<p>Interactions between Learning and Emotions in Prospective Primary Teachers towards an Active Practice of Biology <i>José María Marcos-Merino - Rocío Esteban Gallego, University of Extremadura (Spain)</i></p> <p>Aesthetic Expression in Science Education Enhances Knowledge of Concepts and Phenomena <i>Ulrika Tobieson - Ann Mutvei, Södertörn University (Sweden)</i></p> <p>Why Do Students Focus and Enjoy Carrying out Tasks? Developing Procedural Scientific Knowledge of Pre-Service Primary School Teachers <i>Francisco Castillo-Hernández, University of Almería (Spain)</i></p> <p>Implementation and Didactic Validation of STEM Workshops in Primary Education <i>Guadalupe Martínez Borreguero - Milagros Mateos-Núñez, University of Extremadura (Spain)</i></p>	<p>Inclusive Pedagogical Books: Strategies and Options to Build Accessible Resources <i>Nuno Fragata - Carla Freire, Politécnico de Leiria (Portugal)</i></p> <p>Inclusive Biology Education - What Do Pre-Service Teachers Think about it? <i>Nina Holstermann, University of Vechta (Germany)</i></p> <p>BLIC & CLIC: Bringing Life into the Classroom. Use of Mind Maps on the Chemistry Class <i>Isabel Allen - Luísa Santos, Agrupamento Escolas da Maia (Portugal)</i></p> <p>Does Paired Mentoring Work? A Study of the Effectiveness and Affective Value of Pairing Students Aged 16 with Undergraduate Students in England <i>Nikolaos Fotou - Ian Abrahams - Rachael Sharpe, University of Lincoln (United Kingdom)</i></p>	<p>Using Photos to Elicit Secondary Students' Perspectives of Connecting Science with the Real World <i>Samar Albalawi, University of Manchester (United Kingdom)</i></p> <p>Talkin' about the Resolution <i>Alessandra Zanazzi, INAF - Osservatorio Astrofisico di Arcetri, Firenze (Italy)</i></p> <p>A Martian Adventure: An Interactive Geo-Edutainment Tool <i>Zsuzsanna M. Császár - János Varjas, University of Pécs (Hungary)</i></p> <p>The Impact of Conducting Youth Scientific Research Camps within the Academic Institute <i>Dorit Granot - Esther Ety Haramaty, Davidson Institute of Science Education at the Weizmann Institute of Science (Israel)</i></p>

End of Conference Day One



Friday 22 March 2019

Morning Session: 9:10 – 13:00

Room A 9:10 – 11:15	Room B 9:10 – 11:15	Room C 9:10 – 11:15
<p style="text-align: center;">Health Education <i>Mary Oliver, University of Nottingham (United Kingdom)</i></p>	<p style="text-align: center;">STEM Education <i>Dante Jorge Dorantes - Gonzalez, MEF University (Turkey)</i></p>	<p style="text-align: center;">Scientific Research and Social Development <i>Nasser Mansour, University of Exeter (United Kingdom)</i></p>
<p>Health Education and the Future of Natural Resources: Food Safety, Food Waste and the Culture of Sustainability <i>Ombretta Pediconi - Giancarlo Pichillo, Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise (IZSAM) (Italy)</i></p> <p>Argumentation about Antibiotic Resistance in Secondary School Biology: The Role of Skills, Knowledge and Learning Environments <i>Susanne Rafolt - Julia Thaler, University of Innsbruck (Austria)</i></p> <p>STEM Molecular and Cellular Neuroscience Didactics for Human Health in High School <i>Marina Minoli, High School Marconi - National Biologists Order - Royal Society of Biology (Italy)</i></p> <p>Secondary School Students' Evaluation of Vaccinations <i>Susanne Rafolt - Julia Kohler, University of Innsbruck (Austria)</i></p> <p>Children's Perceptions on Cancer: Digital Storytelling as Means of Education <i>Hernani Oliveira - Helena Lima, University of Porto (Portugal)</i></p>	<p>E-Learning from Nature: Irish Experience and Results of an Erasmus+ Project Collaboration <i>Marie Walsh, Limerick Institute of Technology (Ireland)</i></p> <p>Costs and Benefits to Implement STEM Programs in Schools: The Stimey Project <i>Alecia Adelaide May Reid, University of Cádiz (Spain)</i></p> <p>Development of STEM Outreach Material that Incorporates Argumentation for Science Classrooms <i>Laurie Ryan, University of Limerick (Ireland)</i></p> <p>STEM Education Strategies within the Sporting Context <i>Isabel Urbano - Igone Guerra, Sinnergiak - Social Innovation (Spain)</i> <i>Xabier Barandiarán, University of Deusto (Spain)</i></p> <p>Development of Learning Skills in Medical Students through PBL-STEM <i>Vasilka Krumova, Sofia University "St. Kliment Ohridski" (Bulgaria)</i></p>	<p>Regional Strategies for the Development of Higher Education and Human Capital Upbuilding <i>Evgeny Kolbachev, Platov South-Russian State Polytechnic University (Russian Federation)</i></p> <p>4th Industrial Revolution: Friend or Foe? <i>Fatima Fernandes, University of South Africa (South Africa)</i></p> <p>Educational Connections to Ongoing Research Projects (E-CORP) <i>Alana Edwards - Anne Henderson, Florida Atlantic University - Pine Jog Environmental Education Center (United States)</i></p> <p>International Funding Programmes for Scientific Research and Science Education <i>Elisabetta Delle Donne, Pixel (Italy)</i></p> <p>Analysis of the Influence of Learning State before University Admission to College Dropout Using Hierarchical Bayesian Model <i>Naruhiko Shiratori, Kaetsu University (Japan)</i></p>

Coffee Break 11:15 – 11:25

Poster Session: 11:25 – 11:45

Room A 11:45 – 13:00	Room B 11:45 – 13:00	Room C 11:45 – 13:00
<p style="text-align: center;">New Technologies in Science Education <i>Pier Luigi Gentili, University of Perugia (Italy)</i></p>	<p style="text-align: center;">Workshop QUAL4T2 - Effective Team Work as the Trigger to Quality Improvement in Education</p>	<p style="text-align: center;">Students' Assessment <i>Ian Abrahams, Lincoln University (United Kingdom)</i></p>
<p>Measuring Technology Integration in Science Classrooms <i>Caroline Parker, Education Development Center (United States)</i> <i>Cathlyn Stylinski, University of Maryland Center for Environmental Science (United States)</i></p> <p>Virtual Reality Explorers <i>Joseph Walsh, Institute of Technology Tralee (Ireland)</i></p> <p>Using Video-Based Methods to Teach Rational Number to Prospective Primary School Teachers <i>Alberto Arnal-Bailera - Carmen Julve-Tiestos, University of Zaragoza (Spain)</i></p>	<p>Introduced by: <i>Margrieta Kroese-Zoet, Landstede Groep (The Netherlands)</i> <i>Anabel Menica, Politeknika Ikastegia Txorierrri (Spain)</i> <i>Francesca Di Paolantonio, Associazione CIOFS-FP (Italy)</i></p> <ul style="list-style-type: none"> Culture of quality improvement Effective planning by educator teams Bottom-up approach in education Sharing of Method and tools, presentations and activities <p>The specific topics will be identified with reference to the participants' suggestions posted on the conference pinboard available in the poster session area.</p>	<p>Understanding the Impact of Teaching Strategies, Engagement and Interest in Science: An Analysis of the English PISA Cohort <i>Mary Oliver, University of Nottingham (United Kingdom)</i></p> <p>UAE Students' Value for Learning Science for their Future Careers <i>Dean Cairns, Emirates College for Advanced Education (United Arab Emirates)</i></p> <p>A Clear and Present Trust: Distance Learning Assessment and the Academia Perspective <i>Ana S. Moura, Universidade do Porto (Portugal)</i></p>

Lunch 13:00 – 14:30



Friday 22 March 2019
Afternoon Session: 14:30 – 19:00

Room A 14:30 – 16:10	Room B 14:30 – 16:10	Room C 14:30 – 15:45
Chemistry Education and Environment <i>Marina Minoli, High School Marconi - National Biologists Order - Royal Society of Biology (Italy)</i>	Studies in Science Education <i>Ann Mutvei, Södertörn University (Sweden)</i>	Science Teacher Training <i>David Gonzalez Gomez, University of Extremadura (Spain)</i>
<p>Grassroots Green Schools: A Model Program for Increased Local Participation <i>Alana Edwards - Anne Henderson, Florida Atlantic University Center for Environmental Studies (United States)</i></p> <p>Educational Concept for Hands-On Energy Science Workshops <i>Mona-Christin Maaß - Thomas Waitz, Georg-August-University Göttingen (Germany)</i></p> <p>Greening the Organic Chemistry Laboratory: Comparing Synthetic and Purification Techniques in Organic Process Development <i>Devin Latimer, University of Winnipeg (Canada)</i></p> <p>H2O to Go! Connecting Youth to Research in Environmental Issues <i>Alana Edwards - Anne Henderson - Loisa Kerwin, Florida Atlantic University Center for Environmental Studies (United States)</i></p>	<p>An Interdisciplinary Investigation into Complex Systems <i>Pier Luigi Gentili, University of Perugia (Italy)</i></p> <p>Kaibara Ekken and Virtue in Science <i>Maji Rhee, Waseda University (Japan)</i></p> <p>Trends and Patterns in Subject Choice by Science Students at Sixth Form Level in Malta <i>Miriana Magro, St Clare College Pembroke Secondary School (Malta)</i> <i>Martin Musumeci, University of Malta (Malta)</i></p> <p>The Application of Binary Logistic Regression Analysis on Transferability of Mathematical Knowledge amongst Science Students <i>Nora Zakaria, UiTM (Malaysia)</i></p>	<p>Development of Leadership Mindset Using a Method of "Live Living" <i>Tatiana Kharitonova, The State Hermitage Museum (Russian Federation)</i></p> <p>Situation and Structural Framework of Competence: Action Logic, Curriculum Logic, Logic of Education <i>Argentina Chiriac, State University of Medicine and Pharmacy "Nicolae Testemițanu" (Moldova)</i></p> <p>Which Resources for School Situations Involving Religious Matters? <i>Gabriela Abuhab Valente, Universidade de São Paulo and Université Lumière Lyon 2 (Brazil)</i></p>

Coffee Break 16:10 – 16:20

Poster Session: 16:20 – 16:40

Room A 16:40 – 17:55	Room B 16:40 – 17:55	
New Technologies in Science Education <i>Jin Su Jeong, University of Extremadura (Spain)</i>	Students' Assessment <i>Andy Cavagnetto, Washington State University (United States)</i>	
<p>Investigation of Students' Chemistry Problem Solving Approach with the Use of Eye Tracking-Enhanced Retrospective Think-Aloud <i>Martin Rusek – Ridvan Elmas, Charles University (Czech Republic)</i></p> <p>Using Eye Tracking Technology in Design - Possibilities and Limitations <i>Ali Daryusi - Grit Köhler, University of Applied Sciences Offenburg (Germany)</i></p> <p>Fusionopolis - The most Decisive Economic Power Centers of the 21st Century <i>Norbert Cszmadia, Pallas Athene Innovation Geopolitical Foundation (Hungary)</i></p>	<p>Subject Choice and Performance in SEC Biology: Patterns According to Gender and School Type in Malta <i>Jacob Azzopardi, San Ġorġ Preca College Middle School (Malta)</i> <i>Martin Musumeci, University of Malta (Malta)</i></p> <p>Multiple Choice Tests with One vs. More Correct Answers – Which Are Better Predictors of Students' Knowledge and Interest in Biology? <i>Jan Mourek - Radim Kuba, Charles University (Czech Republic)</i></p> <p>Evaluations of Interns' Performances after Intervention Program Using Hierarchical Fuzzy Conjoint Analysis Model <i>Nora Zakaria, UiTM (Malaysia)</i></p>	

Closing Speech: 18:10 – 18:30

Science Education for STEM Thinkers in the Knowledge-Based Society
Nasser Mansour, University of Exeter (United Kingdom)

Cocktail 18:30 – 19:00

End of Conference



Virtual Presentations

(available on the conference website)

<p>A Certification Framework for Managing Digital Skills According to DIGCOMP2.1 <i>Aliki Panagiotarou, Hellenic Open University - University of Patras (Greece)</i> <i>Bill Vassiliadis - Achilles Kameas, Hellenic Open University (Greece)</i></p>	<p>Made by them to them: The Students in the Learning Process <i>Paula Flores, Polytechnic Institute of Porto - High School of Education (Portugal)</i></p>
<p>Access to Information for People with Special Needs: Experience from Academic Course <i>Tania Todorova - Sabina Eftimova, State University of Library Studies and Information Technologies (Bulgaria)</i></p>	<p>Misconceptions in Quantum Mechanics through Double Slit Experiment <i>Matúš Sitkey, Constantine the Philosopher University in Nitra (Slovakia)</i></p>
<p>Affordances and Constraints of Meaning-Making in Multimodal Science Classrooms <i>Lilian Pozzer - Elvina Mukhamedshina, University of Manitoba (Canada)</i></p>	<p>Reflexion of STEM Implementation in Ukraine <i>Oksana Buturlina - Tatyana Lysokolenko - Sergey Dovgal, Dnipro Academy of Continuing Education (Ukraine)</i></p>
<p>Changes in Students' Nature of Science Conceptions upon a HOS and NOS-Enriched PBL Intervention <i>Cristina Sousa, University of Porto (Portugal)</i> <i>Isabel Chagas, University of Lisbon (Portugal)</i></p>	<p>Self-Regulation of Pedagogy Students <i>Dominika Hosova - Jana Duchovicova, Constantine the Philosopher University in Nitra (Slovakia)</i></p>
<p>Comparative Study on the Sources of Information Contributing to the Cancer's Representations on a Public of Pupils and Students <i>Sébastien Malpel - Emmanuella Di Scala, Laboratoire CIMEOS - Université de Bourgogne (France)</i> <i>Robert Andres - Natalie Pinsard, ESPE Bourgogne (France)</i></p>	<p>Space Representation and Gender Differences: A Flipped Approach to Geography Teaching <i>Tonia De Giuseppe - Pio Alfredo Di Tore - Felice Corona, Università degli Studi di Salerno (Italy)</i></p>
<p>Conceptual Maps as the Lucrative Way Showing Integrate Characteristic of the Energy Concept In School Environment <i>Terezia Jindrova, Constantine the Philosopher University in Nitra (Slovakia)</i></p>	<p>STEM Education Strategies within the Sporting Context <i>Isabel Urbano - Igone Guerra - Alfonso Unceta, Sinnergiak – Social Innovation (Spain)</i> <i>Xabier Barandiarán, University of Deusto (Spain)</i></p>
<p>Features, Mechanisms, Evidences: A Path through the Scientific Theory of Evolution <i>Ninfa Radicella, Liceo Scientifico "Filippo Silvestri" (Italy)</i></p>	<p>STEM Education: Future and Current Challenges for the Preparation of STEM Educators <i>Natalia Spyropoulou - Achilles Kameas, Hellenic Open University & Computer Technology Institute and Press (Greece)</i></p>
<p>Formation and Control of Skills Listening and Pronunciation in Teaching Russian as a Foreign Language <i>Nina Khamgokova, RUDN University (Russian Federation)</i></p>	<p>Studying Space with Social Networks <i>Paola Caradonna, ITT Panetti Pitagora Bari (Italy)</i></p>
<p>Influence of Motivational, Attitudinal and Metacognitive Skills in the Academic Achievement of Freshman Science and Engineering Students <i>Patricia Morales Bueno - Rosario Santos Rodas, Pontificia Universidad Católica del Perú (Peru)</i></p>	<p>Technology and Human Education <i>Klaudius Hartl, Private University of Education Diocese of Linz (Austria)</i></p>
<p>Investigating the Laboratory Experiences of Chemistry Teachers <i>Johnson Upahi - Arafat Asake Abdussalam, University of Ilorin (Nigeria)</i> <i>Umesh Ramnarain, University of Johannesburg (South Africa)</i></p>	<p>The Development of Non-Native Speech Based on Linguistic Isomorphism <i>Madina Tsalikova, North-Ossetian State University (Russian Federation)</i></p>
<p>Intellectual Property Problems on Photographic Information Analysis in University Environment <i>Stoyan Denchev - Tereza Trencheva - Kamelia Planska, State University of Library Studies and Information Technologies (Bulgaria)</i></p>	<p>The MathE Project: Teaching Mathematics Effectively <i>Anca Colibaba, GR.T.Popa University - EuroED Foundation (Romania)</i> <i>Irina Gheorghiu, Albert Ludwigs Freiburg University (Germany)</i> <i>Cintia Colibaba, University of Life Sciences and Veterinary Medicine Iasi (Romania)</i> <i>Loredana Danaila, EuroEd Foundation Iasi (Romania)</i> <i>Anais Colibaba, Trinity College Dublin (Ireland)</i></p>
<p>Mathematical Modeling in Object Localization Based on Signal Strength <i>Tanja Van Hecke, Ghent University (Belgium)</i></p>	<p>Water Education in the Context of Environmental Education. The Views of Private School Teachers <i>Spyridon Xagoraris - Anna Thysiadou - Vassilios Tsiantos, Eastern Macedonia and Thrace Institute of Technology (Greece)</i></p>



Posters

<p>A Comparative Study of Leaving Certificate and Advanced Placement Chemistry Programmes <i>Niamh McGoldrick, Trinity College Dublin (Ireland)</i></p>	<p>On FAIR Data Principles of Institutional Data and Information of Universities <i>Masao Mori, Tokyo Institute of Technology (Japan)</i> <i>Naruhiko Shiratori, Kaetsu University (Japan)</i></p>
<p>Active-Learning Strategies to Increase the Students' Engagement to an Environmental Science Course in a Distance-Learning Program <i>David Gonzalez Gomez - Jin Su Jeong - Florentina Cañada, University of Extremadura (Spain)</i></p>	<p>Pedagogical Content Knowledge: The Case of Simple Machines <i>Lina Melo, University of Extremadura (Spain)</i></p>
<p>An Experimental Conception to Catalysis in Context of an Education for Sustainable Development <i>Thomas Waitz - Stefanie Waitz, Georg-August-University Göttingen (Germany)</i></p>	<p>Project Based Learning, its Realization and Influence on Pupil's Learning <i>Jiřina Rajsiglová - Barbora Škarková, Charles University (Czech Republic)</i></p>
<p>Analysis of First Aid Misconceptions among Teachers at Elementary and Grammar Schools in the Czech Republic <i>Radim Kuba - Gabriela Zvěřinová, Charles University (Czech Republic)</i> <i>Roman Říha, Czech Technical University in Prague (Czech Republic)</i></p>	<p>Short Courses: Sharing Knowledge with Students, from Students <i>Marta Daniela Santos, cE3c - University of Lisbon (Portugal)</i></p>
<p>Application of Principal Component Analysis to the Interpretation of the Emotional Dimension of Secondary Students towards Learning Physics and Chemistry <i>Florentina Cañada - Miriam Hernández, University of Extremadura (Spain)</i></p>	<p>Teaching Evolution with Austrian Biology Textbooks <i>Martin Scheuch, University College for Agricultural and Environmental Education (Austria)</i></p>
<p>Developing Problem-Oriented Worksheets for Improving Science Latency <i>Zsuzsanna M. Császár - János Varjas, University of Pécs (Hungary)</i></p>	<p>The Chemistry of Remembering <i>Nele Milsch - Thomas Waitz, Georg-August-University Göttingen (Germany)</i></p>
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<p>Examining Adult Learner and Lecturer Perspectives and Experiences Using Audience Response Systems (Clickers) in Higher Education <i>Maeve O'Reilly, Athlone Institute of Technology (Ireland)</i></p>	<p>The Training for Patients in Magic Project Funded by European Commission - Horizon 2020 Program <i>Sabrina Grigolo, Project Manager Aslto3 Piedmont Region - Expert Patient 3 Course, Eupat (Italy)</i></p>
<p>Feel and Imagine Arithmetic with their Ears and Hands <i>Masao Mori, Tokyo Institute of Technology (Japan)</i> <i>Mayumi Ueno, Home-Education-Laboratory (Japan)</i></p>	<p>The Work-Related Stress among Members of Integrated Rescue Service and Influence of this Stress to Couple Relationship <i>Roman Říha, Czech Technical University in Prague (Czech Republic)</i></p>
<p>Flipping a Science Course: Influence in the Students' Cognitive and Affective Performance <i>David Gonzalez Gomez - Jin Su Jeong - Florentina Cañada, University of Extremadura (Spain)</i></p>	<p>Using Board Games for Collecting Emotional Data on Science and Technology Issues <i>Florentina Cañada - Miriam Hernández, University of Extremadura (Spain)</i></p>
<p>Implementing the Topic of Sustainable Nutrition In and Outside the Classroom Based on an Inquiry-Based-Teaching Approach <i>Konstantin Sagmeister, University of Innsbruck (Austria)</i></p>	



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