Thursday, 8 May 2025

Programme

ETE 2025 Educating the Educators

08:00-09:00	Conference Registration - Central Hall							
09:00-09:30	Welcome & Opening         Maria Evagorou, Conference Chair, University of Nicosia, Cyprus         Oliver Strasers, Conference Chair, ICSE, University of Education, Freiburg, Germany         Laura Wanckel, ICSE, University of Education, Freiburg, Germany         Room: Panorama							
09:30-10:30	Scientific Literacy in the 21st Century Jonathan Osborne, Stanford University, USA Room: Panorama							
10:30-11:00	Coffee Break							
11:00-12:00	<b>Paper Session 1</b> Chair: <b>Mourad El</b> <b>Karkri</b>	<b>Paper Session 2</b> Chair: <i>Metin</i> <i>Sardag</i>	Paper Session 3 Chair: Stephanie Bismuth	Workshop 1	Teachers' Day	Workshop 2 (ICSE Academy)		
	Room: Megaron Alpha	Room: Megaron Beta	Room: Megaron Gamma	Room: Atrium B	Room: Panorama	Room: Atrium C		
	Geology and Seismology in our local area: Breaking the encapsulated classroom and promoting life-long learning Demetris Lazarou, Irene Christou, Nicos Lazarou Understanding the One Heath approach through animation videos Beatriz Robredo Valgañón Green and blue projects: leading the way for environmental sustainability in STEM education in Europe Agueda Gras Velazquez, Ivelina Ivanova, Miriam Molina Integrating STEM Activi-ties into the Curriculum: A Bridge from Poverty to Prosperity Mourad EL Karkri, Antonio Quesada, Marta Romro-Ariza	Personalized and group learning – A learning ana-lytic tool for division of students into groups based on their learning per- formance Yael Shwartz, Orna Falik, Giora Aleandron A Holistic Approach for Fostering Cl- mate Literacy: De- veloping Cognitive and Socio-Emotion- al Skills Oshra Aloni, Anat Yarden, Yael Shwartz, Orit Ben- Zvi Assaraf, Ornit Spektor-Levy Developing Experi- mentation Compe- tencies and Their Interdisciplinary Nature in Digital STEM Education Elena Meister, Oliver Straser, Katja Scharenberg, Nadine Tramowsky, Silke Mikelskis-Seif- ert, Wolfram Rollett A Case Study on Profes-sional De- velopment Training of Pre-Service and In-Service STEM Teachers Metin Sardag, Gokhan Kaya, Meh- met Sogut, Gultekin Cakmakci	Insight into how to pro-mote girls' entrepre-neurial mindset within a STEM context María Martín- Peciña, Marta Romero-Ariza, Antonio Quesada, Ana M Abril Enhancing STEM educa-tion through digital re-sources: the OER Spanish case Marta R. Ariza, Antonio Quesada, Ana Maria Abril Gallego, Pilar Gema Rodriguez, Maria Martin Pecina From Creativity to Sus-tainability: Empowering STEM Education through Scientific Creativity and the Innovative FOCUS Program Kurt Haim Evaluating Teach- ers' Pedagogical Design Capacities for Differentiated Instruction in Digi- tal STEM Environment Stephanie Bismuth, Yael Shwartz, Anat Yarden	Planning tool for teaching critical thinking in a sus-tainability context <i>Ragnhild Lyngved</i> <i>Staberg, Maren</i> <i>Skjelstad Fred-</i> <i>agsvik</i>	How to Open Up Schools? - Lessons from Practice This interactive session explores how schools can become more open and connected through real-world learning. Teachers, students, research- ers, and an industry partner share practical insights and lessons learned from European Open Schooling projects, followed by a live Q&A.	Fostering Teacher Collaboration Across Europe: Insights, Challeng- es, and Future Directions Martin Bilek, Jank Medova, Despina Potari, Stefan Zehetmeier ISE Academ		

ETE 2025 Educating the Educators

Programme

Thursday, 8 May 2025



2:00-13:00	Paper Session 1 Chair: <i>James</i> Calleja	Workshop 1	Workshop 2	Workshop 3	Teachers' Day Workshop	Workshop 4 (ICSE Academy)
	Room: Megaron Alpha	Room: Megaron Beta	Room: Megaron Gamma	Room: Atrium B	Room: Panorama	Room: Atrium C
	Exploring the STEAM Education landscape in Cyprus through a focus group with educators and university students Vasiliki Panagi, Olia Tsivitanidou, Agni Stylianou Georgiou, Maria Evagorou Teacher profession- al development for increasing self- efficacy in diverse STEM class-rooms Ana M Abril, María Martín-Peciña, Antonio Quesada, Marta R Ariza Modelling transdis- ciplinary sustaina- bility education in a project for preser- vice teachers Maren Fredagsvik, Ragnhild Lyngved Staberg, Floor Kamphorst, Hilde Ervik, Trine Elis- abeth Unander, Anne Rakstad Pettersen, Vibeke Gilje Sanne, J.rund Aasetre, Maria I. M. Febri A lesson study ap- proach to support pri-mary school mathematics teaching through problem-solving James Calleja, Melanie Casha Sammut	Developing a STEM local lesson plan: Departing from the socioscientific issue of water stress and the role of sustain- able tourism in St Raphael's Resort in Cyprus Fabio Ribeiro, Joao Fernandes	GEOBSERVE - an online platform to develop Teacher's Green, Digital and Spatial Skills for Edu-cation for Sustainable Devel-opment <i>Eleni Papageorgiou,</i> <i>Loucas Louca</i>	The INFINITE project: Utilising Ar- tificial Intelli-gence to Change and In-novate Higher Educational Practices Eleni Shaili, Eleni Trichina, Charalam- bos Vrasidas, Efi Nisiforou, Michaela Protopapa	From Criteria to Practice: Co-Cre- ating Sustainable STEAM Learning Participatory workshop led by <i>Stephanos Cherou-</i> <i>vis</i> , PhD (Ecsite – European Network of Science Centres and Museums). Explore six evi- dence-informed cri- teria for high-quali- ty STEAM practices, developed through the EU-funded Road-STEAMer project. Engage in a gallery walk, reflect on your own practices, and take part in a hands-on activity distinguish- ing sustainability from exploitation.	Transversal topics or transversal skills? Matija Basic, Mart Bilek, Michiel Doorman, Josette Farrugia IESE Academ
13:00-14:00	Lunch Break					
14:00-15:00		ucts to align pedagog , Research in Science a	_ 1		of Cyprus	SEAcademy

Room: Panorama

**I** SE Academy



Programme Thursday, 8 May 2025

15:00-16:00	Workshop 1	Workshop 2	Workshop 3	Workshop 4	Teachers' Day	Workshop 5 (ICSE Academy)			
	Room: Megaron Alpha	Room: Megaron Beta	Room: Megaron Gamma	Room: Atrium B	Room: Panorama	Room: Atrium C			
	Transformational Pedagogical Struc- ture that Empowers Entire Classroom Community; Let's Design Together' <i>Desirée Daring</i>	Interdisciplinary trails related to measurement Janka Medova, Silvia Haringov	"Cook this or the other?" Engaging Educators in Interdisciplinary STEM Education through Practical Food Dilemmas and controversies <i>Eftychia Parla,</i> <i>Chrystalla Lymbou-</i> <i>ridou</i>	Topological optimization and bionic design <i>Dr. Regina Gente,</i> <i>Nicole Mahlke</i> <i>Harms</i>	Teaching in the Age of Al Panel discussion on opportunities and challenges of Al in education, fol- lowed by a closing keynote input by Scientix, Agueda Gras Velazquez on "A European Per- spective on STEM Education."	Connecting Critical Thinking to STEM content <i>Michiel Doorman,</i> <i>Matija Basic</i>			
16:00-16:45	Coffee Break & <b>Poste</b> Room: Panorama	r Session	Academy						
	1. Developing a Cou	rse on Nature-Based S	Solutions for Teacher Ec	ducation: A Living Lab	Case Study, Irene Drym	iotou			
	2. Fostering Diversit	y and Inclusion in STE	M learning: Insights fro	m an Educational Mak	eathon for In-Service T	eacher, <i>Yuval Segev</i>			
	<ol> <li>Fostering Diversity and Inclusion in STEM learning: Insights from an Educational Makeathon for In-Service Teacher, <i>Yuval Segev</i></li> <li>Lighthouse Activities: Insights from the ICSE Science Factory Project, <i>Mónica Baptista</i></li> </ol>								
	<ol> <li>A pizza restaurant at 5th Primary School level, María Antonia López-Luengo</li> </ol>								
	5. Geotechnologies and map-story storytelling into educational practices: A teachers' professional development course, <i>Eleni Papageorgiou</i>								
	6. Construction of polygons with Scratch and Computational Thinking, Hannes Stoppel								
	7. Piloting a questionnaire to analyse the impact of 3D printing on students' self-efficacy, Oliver Straser								
	8. RoboAquaria: Robotics in aquatic environments to promote STEM and environmental awareness, <i>Michaela Protopapa</i>								
	9. From Creative Thinking to Sustainable Solutions: Transforming STEM Classrooms through the Innovative FOCUS program, Angela Hummer								
	10. Teaching objectives in primary school STEAM projects in Spain, Ainhoa Berciano								
	11. Preliminary results from a systematic literature review on open schooling in science education, Isabel María Cruz-Lorite								
	12. PD Facilitators: Roles And Challenges, <i>Ralf Erens</i>								
	13. How to Improve Public Health in Mangualde?, <i>Fábio Ribeiro</i>								
	14. Attitudes, self-efficacy and interest in science: preliminary results from an international project, Maria Nikolaou								
	15. "Little cardiologists": A proposal for inclusive science teaching using embodied learning activities, Georgia Michael								
	16. 'The TINKER Framework: Revolutionizing Informatics Education with Authentic and Gender-Inclusive Pedagogy', Michaela Protopapor								
	17. Science in School: Find inspiration, share your ideas, <i>Tamaryin Godinho</i>								
	18. A 4C/ID Based Professional Development Program for German Technology Education Teachers, Adrian Boheim								
	19. The 15-Minute Cities, Jesús Girón Gambero								
	20. Exploring Pre Service Techers Digital Competence In Science Technology Engineering And Mathemetics In Early Childhood Teaching And Learning, <i>Henry Katniyon</i>								
	21. Integrating Sustainable Living Into ICT Education: Robots With Recycled Materials, <i>Mustafa Kemal Ambar</i>								
	22. The STEAME Deca	athlon: a formative as:	sessment technique, Ge	eorge Tsalakos					
	23. Detective of bell S	Simantron, <i>Kyriaki Evr</i>	ipidou						
	23. Detective of bell Simantron, Kyriaki Evripidou Open Schooling Posters from Students								

Thursday, 8 May 2025

Programme



	iession 1 liver Straser	Workshop 1	Workshop 2	Paper Session 2 Chair: Natalia Spyropoulou	Workshop 3 (ICSE Academy)
Room: P	Panorama	Room: Megaron Beta	Room: Atrium B	Room: Megaron Alpha	Room: Atrium C
Europe: Trends, and Miss nities Oliver St Spyropo Gras Vel Teacher CPD and The Role Accessit gogical Approac Josette Doreen I Calleja Explorin Mathem Capabili Study Oliver St	Motivation in d ITE Sessions: e of Relevance, pility, and Peda- ch' <i>Farrugia,</i> <i>Mizzi, James</i> ng ChatGPT's natical Modeling ities: A Case traser, Stefan eier, Carina	STEAM disciplines in harmony: opening pos- sibilities for viewing and experiencing an ecology problem through a de- sign thinking approach. Agni Stylianou Geor- giou, Olia Tsivitanidou, Vasiliki Panayi, Maria Evagorou	An Interdisciplinary European Workshop Series for STEM teach- ers: Experiences and recommendations Monica Wijers, Vincent Jonker, Sanne Korte, Michiel Doorman	STEAME-ACADEMY: STEAME Teacher Facilitators Certifica- tion through European STEAME Regional Academies <i>Gregoris Makrides, To- masz Szemberg, Justine</i> <i>Szpond</i> Empowering Educa- tors for Inclusive and Interdisciplinary STEAM Education: Competence Frameworks and Practi- cal Applications Natalia Spyropoulou, Georgia Sakellaropou- lou, Achilles Kameas	STEM out-of-school activities to learn, to observe and to protect Vincent Jonker, Gultekin Cakmakci, Martin Bilek, Lucas Weinberg





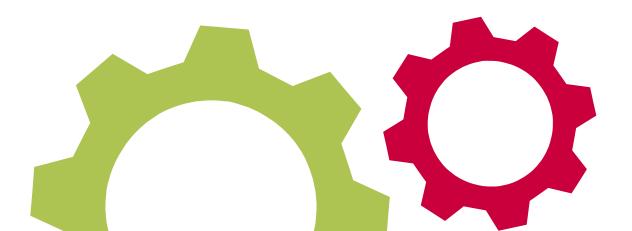
May 8 - 9, 2025, St Raphael Hotel Limassol, Cyprus

Programme	Friday, 9 May 2025
-----------	--------------------

09:00-10:00	The Learning to Facilitate         Framework: Preparing and Supporting Professional Development         Leaders: The Learning to Facilitate Framework and Problem-Solving Cycle PD Model         Hilda Borko, Professor of Education, Center to Support Excellence in Teaching, Stanford University         Room: Panorama							
10:00-11:00	<b>Paper Session 1</b> Chair: <b>Maria Antonia</b> Lopez-Luengo	<b>Paper Session 2</b> Chair: <b>Ralf Erens</b>	Workshop 1	Workshop 2	ICSE Academy Policy Round Table			
	Room: Megaron Alpha	Room: Megaron Beta	Room: Megaron Gamma	Room: Atrium B	Room: Panomara			
	A systematic review of empirical studies: out- comes from programs informed by STEM reforms and policies <i>Evi Konstantinidou,</i> <i>Maria Evagorou</i> Obstacles and achieve- ments of a STEM Fair in a Primary Education University Degree <i>María Antonia López-Lu-</i> <i>engo, Nuria Bautista</i> <i>Puente</i> Using micro:bit for pro- gramming in school <i>Torunn Smevik, Ellen</i> <i>Andersson, Elisabeth</i> <i>Romijn</i> Transdisciplinary Implementation in STEAM Teacher Education <i>Eljishi Ziad</i>	Sustainable Profes- sional Development for Technology Teachers in Primary and Lower Secondary Education: Building Networks and Competence through Peer Collaboration <i>Eva-Lena Jonsson,</i> <i>Ulrika Franke, Jesper Boesen</i> Development of a Sus- tainable PBL Curriculum for Junior High School Science: Recovering Tra- ditional Salt Production Activities After Large- Scale Natural Disaster <i>Minoru Ohtani</i> Educational leaders' perceptions of STEM education <i>Ralf Erens</i>	Scientific Creativity in Practice: Empowering Sustainability Education in STEM <i>Wolfgang Aschauer,</i> <i>Kurt Haim</i>	The Innovative FOCUS Program: Empowering Sustainability in STEM Education through Crea- tivity & Innovation <i>Bogdan Pammer, Ange-</i> <i>la Hummer, Kurt Haim</i>	Moderators: Maria Evagorou & Maria Nicolaou Empowering STEM Teachers for Mobility: Crafting Effective Poli- cies for Future Success Presentation by Marta Romero Ariza & Maria Evagorou Panelists: Agueda Gras-Velazque European Schoolnet EUN, Belgium Verena Bodenbender, International Office Pä agogische Hochschule Freiburg, Germany Maria Podlasek-Ziegle from DG EAC – Euro- pean Commission, Brussels, Belgium Gregory Makrides, STEAME Teacher Academy Coordinator - University of Nationa Education Commision Krakow, Poland			

11:00-11:30





Friday, 9 May 2025

Programme



11:30-12:30	Paper Session 1 Chair: Chrystalla Lymbouridou	<b>Paper Session 2</b> Chair: <b>Chrissavgi</b> Triantafillou	<b>Paper Session 3</b> Chair: <i>Monica Baptista</i>	Workshop 1	ICSE Academy Policy Round Table
	Room: Megaron Alpha	Room: Megaron Beta	Room: Megaron Gamma	Room: Atrium B	Room: Panomara
	Building Trust in Science Education: A Systematic Literature Review Maura de Vos, Kalypso Iordanou Epistemic Explanations and Corrections in the Online Dissemination of Scientific Information Maura de Vos, Kalypso Iordanou, Clark Chinn Exploring Students' Frames on an Environ- mental SSI: Ethical, Social-Cultural and Environmental- Scientific parts of an inter-disciplinary task Chrystalla Lymbouridou Exploring Facilitators' Noticing Perspectives in Fictional Professional Development Sessions Marcus Nührenberger, Janina Lenhart	Teachers' profiles of ICT use: A Cross-Cultural Analysis <i>Evi Konstantinidou</i> Supporting sustainabil- ity awareness in design- ing green mathematical tasks <i>Chrissavgi Triantafil- lou, Elena Nikolaidou,</i> <i>Despina Potari, Giorgos</i> <i>Psycharis</i> Integrating mathemat- ics and biology teach- ing: An inter-disciplinary STEM approach <i>Katerina Bogiatzi</i> <i>Ilenia Chatziandreou,</i> <i>Valandes Verykios</i> STEM interdisciplinary actions in a carpentry laboratory <i>Chrissavgi Triantafillou,</i> <i>Christos Gosdis</i>	STE(A)M and CITIZEN- SHIP. Development with process-es of inquiry and argumenta-tion in science teacher training and teach-ing. Identity, environments and gender study (EduCA-STE(A)M) <i>Teresa Lupión-Cobos</i> Innovating STEM Learn- ing with Open-Access Virtual Laboratories for Biology in the Health Sciences – The VHEalthLab Project <i>Stella A. Nicolaou,</i> <i>Maria Evagorou, Efi Ni- siforou, Mary Halebian,</i> <i>Eleni Dafli, Panagiotis</i> <i>D. Bamidis, Blanca Puig,</i> <i>Aurea Cadarso Rodri- guez, Gabriel Lazar</i> What makes a STEAM teacher? Modelling interdiscipli-narity for future teachers <i>Juan Fraile González</i> <i>Belen Palop</i> Engineering Design in STEM Education: Analys- ing Students Trajectories and Explanations <i>Mónica Baptista,</i> <i>Iva Martins, Gultekin</i> <i>Cakmakci</i>	Engaging STEM Educa- tion Through Education- al Video-games: Present and Future Possibilities Sabine Kienzl, Riccardo Brancaleon	Policy Round Table World Café on Empow- ering STEM Teachers fo Mobility: Crafting Effective Poli- cies for Future Success ISE Academy
12:30-13:30	Workshop 1	Workshop 2	Workshop 3	Workshop 4	ICSE Academy Policy Round Table
	Room: Megaron Alpha	Room: Megaron Beta	Room: Megaron Gamma	Room: Atrium B	Room: Panomara
	Lighthouse Activities: Innovative Approaches for Lifelong Science Learning Monica Baptista, Iva Martins, Oliver Straser, Matija Basic, Gultekin Cakmakci, Maria Evagorou, Katja Maass	Environment for Devel- oping Computational Thinking with the Use of Augmented Reality <i>Martin Cápay, Michal</i> <i>Fojtík</i>	Case-Based Learning for STEM Education: A Workshop on Case Writing Persoulla Nicolaou, Stella Nicolaou	Using micro:bit in science education Torunn Smevik, Ellen Andersson, Elisabeth Romijn, Arne Stormo, Camilla Berge Vik	Moderators: Maria Evagorou, Efi Nisiforou Isabel Maria Cruz Lorite Best Practices from teacher mobilities: ICSE Academy: Michiel Doorman STEAME Academy: Gregory Makrides SPICE Academy: Natalia Spyropoulou NBS4S: Mirjam Holtkemper Summary of flashlights