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SpiceE International Conference on Inclusive STEAM Education

30 – 31 May 2025

Conference Hall
Hellenic Open University
Patras, Greece



SPICE CONFERENCE PROGRAM

DAY 1 - May 30 th 2025	
Online attendance link: https://youtube.com/live/XAmRcEWm-04?feature=share	
Time (Greece time)	Session
14.45-15.00	Opening
15.00-16.30	Plenary Session: The SpiceE project Moderator: Magda Spella - Hellenic Open University
15.00 – 15.10	<i>Significance and achievements of the SpiceE project</i> (Achilles Kameas - Hellenic Open University, Greece)
15.10 – 15.25	<i>Perspectives of Inclusive STEAM Education for students with Mild Disabilities in the context of an evolving school reality</i> (Ioannis Agaliotis - University of Macedonia, Greece)
15.25 – 15.40	<i>The STEAMComp InclEdu Competences framework</i> (Natalia Spyropoulou & Georgia Sakellaropoulou - Hellenic Open University, Greece)
15.40 – 15.55	<i>The development of teachers' inclusive STEAM education competences in the context of the SpiceE project</i> (Marios Papaevripidou & Yvoni Pavlou – University of Cyprus, Cyprus)
15.55 – 16.10	<i>Active methodologies for STEAM teacher training from an inclusive perspective</i> (Rosabel Martínez – University of Alicante, Spain)
16:10 – 16: 20	<i>Building the Future - Inclusive STEAM in Bulgaria</i> (Vera Todorova & Mariya Zhelyazkova - Trakia University, Bulgaria)
16:20 – 16:30	<i>Presentation of the SpiceE Virtual Learning Environment (VLE)</i> (Odysseas Vlahonickolos – Readlab, Greece)
16.30-17.00	Coffee break
17.00-18.10	Panel on New technological approaches in Inclusive STEAM education Moderator: Magda Spella - Hellenic Open University
17.00-17.10	<i>Educational Robotics and Inclusivity in Education</i> (Manolis Wallace, Emmanouil A. Demetroulis, Vassilis Pouloupoulos & Evi Togia, University of Peloponnese, Greece)
17.10-17.20	<i>Artificial Intelligence in Education: Applications and Tools for Supporting Educators and Students</i> (Marios Papaevripidou & Theodoros Karafyllidis – University of Cyprus, Cyprus)
17.20 – 17.30	<i>Specifics of learning difficulties – new technological approaches</i> (Iva Boneva – Trakia University, Bulgaria)
17.30 – 17.40	<i>Advanced technology-enhanced Inclusive STEAM Education</i> (Spyros Papadakis - Hellenic Open University, Greece)
17:40 – 18:10	Panel discussion (moderated by Achilles Kameas - Hellenic Open University, Greece).
18:10 – 19:00	Presentations by educators Moderator: Magda Spella - Hellenic Open University
18:10 – 18:20	<i>What if...I observe, think and act!</i> (Elisa Ripamonti - State Comprehensive Institute Koine, Italy)
18:20 – 18:30	<i>The Role of Art in the Inclusion of Students with Special Needs in STEAM Environments</i> (Luis Mesquita da Fonseca - Agrupamento de Escolas de Esmoriz, Portugal)

18:30 – 18:40	<i>Empowering Educators for Inclusive STEAM Pedagogy in Primary Education: A Multi-Phase Professional Development Model Inspired by the SpiceE Academy</i> (Aikaterini Nikolakopoulou - Directorate of Primary Education of Achaia, Greece)
18:40 – 18:50	<i>Inclusion in the Context of Interdisciplinary Learning</i> (Kristina Fratovic & Snjezana Markovic-Zoraja - Dubovac Primary School, Croatia)
18:50 – 19:00	<i>STEAM Education and Teacher Professional Development: A Study of Arts Integration Strategies</i> (Ifunanya Ebekue - Nnamdi Azikiwe University, Nigeria)
19:00 – 20:00	Reception

DAY 2 - May 31st 2025

Online attendance link: https://youtube.com/live/hGXU_37JM7E?feature=share

Time (Greece time)	Session
9.30-10.30	Plenary Session: The future of Inclusive STEAM Education
9.30 - 9.45	<i>Supporting Integrated STEM Education and Inclusion through Scientix®</i> (Elisavet Vlachou - European Schoolnet, Belgium)
9.45 - 10.00	<i>The SpiceE Alliance</i> (Magda Spella - Hellenic Open University, Greece)
10.00 - 10.15	<i>Policy Development in Inclusive STEAM Education</i> (Maria Konstantinidou - Ministry of Education, Sport and Youth, Cyprus)
10.15 - 10.30	Discussion
10.30 - 11.00	Coffee break
11.00 – 12.00	Presentations by educators Moderator: Magda Spella - Hellenic Open University
11.00 – 11.10	<i>EIRENE - Cosmic Citizenship: Creative Thinking and Sustainable Society Design</i> (Nasiye Yamaç Şahin, Feyza Öncüoğlu & Zeynep Varol - Antalya Science and Art Center, Türkiye)
11.10 – 11.20	<i>Technology-Assisted Learning: A Computer Game to Develop Fine Motor Skills in Students with Autism</i> (Ahmet Şahin - Yüreğir Science and Art Center, Türkiye)
11.20 – 11.30	<i>Teaching 'Speed' in an Inclusive Elementary Classroom: A STEAM Approach for Diverse Learners</i> (Spyros Papadakis - Hellenic Open University, Greece; George Fakiolakis - Metamorfosi-Heraklio High School, Greece; & Spyros Lazaropoulos - 1 st Experimental Primary School of Pyrgos, Greece)
11.30 – 11.40	<i>STEAM Education in Practice: A Case Study from Escola Montessori Rubí</i> (Erica Köchig - Universitat Rovira i Virgili, Spain & Beatriz Lores-Gómez - Universitat Jaume I, Spain)
11.40 – 11.50	<i>Inclusive STEAM Adventures: Designing a digital learning quest for primary education through art and accessibility</i> (Dobrin Peltekov - “St. Patriarch Evtimiy” Primary School, Bulgaria)
11.50 – 12.00	<i>Co-designing Research Directions for Inclusive STEAM Education in Europe</i> (Sabrina Bresciani & Francesca Rizzo - Politecnico di Milano, Italy)
12.00-13.00	Special session on STEAM and Inclusive Education Moderator: Magda Spella - Hellenic Open University
12.00 – 12.15	<i>The SEER – A European Vision for STE(A)M Education</i> (Elisavet Vlachou - European Schoolnet, Belgium / SEER project)
12.15 – 12.30	<i>The SEER Roadmap: Indicators on Educators and Inclusion in STEAM</i> (Jessica Niewint Gori - National Institute for Documentation, Innovation and Educational Research, Italy / SEER project)

12.30 – 12.45	<i>Educators' Needs and Challenges for Inclusive STEAM Education</i> (Natalia Spyropoulou - Hellenic Open University, Greece / SpiceE project)
12.45 – 13.00	<i>The Role of Teachers' Collaboration in Advancing STEAM Education</i> (Stefan Savov - Education Trade Union, Bulgaria / SpiceE project)
13.00-14.00	Lunch break
14.00-15.30	Synergies with other Teacher Academy and STEAM education projects Moderator: Magda Spella - Hellenic Open University
14.00 – 14.10	<i>European collaboration and mobility in STEM teacher education - ICSE Academy</i> (Oliver Straser - University of Education Freiburg, Germany / ICSE Academy project)
14.10 – 14.20	<i>SENSEI - Inclusion for all</i> (Stefano Costantini - University of Florence, Italy, & Mirela Redžić - Vejen gymnasium, Denmark / SENSEI project)
14.20 – 14.30	<i>Re-thinking and Facilitating the Learning in the Future: the STEAME-PBL Pedagogy</i> (Gregory Makrides – University of the National Education Commission, Poland / STEAME Academy project)
14.30 – 14.40	<i>The Equi-T project - First insights in the newly developed Criteria Catalogue for Open Educational Resources</i> (Barbara Gasteiger-Klicpera - University of Graz, Austria / EQUI-T project)
14.40 – 14.50	<i>STEAMbrace: Empowering future innovators through STEAM education. Bridging the gender gap in STEM fields.</i> (Juancho Pons - Edelvives, Spain / STEAMbrace project)
14.50 – 15.00	<i>Road-STEAMer: Developing a STEAM Roadmap for Science Education in Horizon Europe</i> (Vasileios Liakopoulos - Ellinogermaniki Agogi / Road-STEAMer project)
15.00 - 15.30	<i>Panel discussion</i> (Moderator Achilles Kameas – Hellenic Open University, Greece)
15.30 - 16.00	Coffee break
16.00 - 18.20	Parallel session I - Presentations by educators (in person and online - in the Greek language) Moderator: Magda Spella - Hellenic Open University
16.00 – 16.10	<i>Designing a Renewable Energy Community</i> (Eleni Tsourekis, Maria Gkana & Konstantina Gkika – 3 rd Gymnasium of Aigio, Greece)
16.10 – 16.20	<i>Teaching Emotions in Sophocles' Antigone through Inclusive STEAM Practices: A Creative Approach with Masks and Emerging Technologies</i> (Georgia Dimopoulou - University of Patras, Greece)
16.20 – 16.30	<i>The Parthenon in Minecraft: An Innovative Inclusive Action in 21st-Century SPICE STEAM Education</i> (Maria Nimpi & Katerina Nikolopoulou – 21 st Gymnasium of Patras, Greece)
16.30 – 16.40	<i>Integrating Inclusive STE(A)M practices in primary Education: The Fizzy Q Application</i> (Maria Barouta - Kanalia Primary School of Corfu, Greece)
16.40 – 16.50	<i>"The Power on My Plate": A Project by 4th Grade Students of the 13th Primary School of Patras</i> (Konstantinos Georgopoulos, Olga Vlachou, Venetia Papangelopoulou, Christos Kotsopoulos & Anastasia Visvardi - 13 th Primary School of Patras, Greece)
16.50 – 17.00	<i>Creation of a Shadow Theater Performance with Bicycle Dynamo for Lighting</i> (Anastasia Bourbou & Vasiliki Pagoulata, Greece)
17.00 – 17.10	<i>From the Waves of Arts (A) to Action: When Inclusive STEAM Education Transforms Students into Active Citizens</i> (Maria Nimpi & Asimina Panagiotopoulou - 21 st Gymnasium of Patras, Greece)
17.10 – 17.20	<i>Digital Competences in STEAM Education: Towards an Inclusive and Equitable Future</i> (Konstantinos Mathiopoulos – Hellenic Open University, Greece)

17.20 – 17.30	<i>“SOSte... the Water!”</i> (Eleni Koyneli & Eyaggelia Papaefthimioy – 55 th Primary School of Patras, Greece)
17.30 – 17.40	<i>The Construction of Odysseus’ Raft – A Journey through SPICE STEAM Education</i> (Maria Nimpi, Evangelia Zafeiropoulou, Konstantinos Michalopoulos, Andreas Ifantis, Eirini Panagopoulou - 21 st Gymnasium of Patras, Greece)
17.40 – 17.50	<i>Mirroring Emotions: Empathy through Painting in Primary School – an Inclusive STEAM Approach</i> (Parthena Kiriakidou - Experimental School of Kilkis & University of Macedonia, Greece)
17.50 – 18.00	<i>STEAM education, environmental studies and computational thinking: Action research in primary education</i> (Vasiliki Koutsokera - 1 st Experimental Primary School of Portaria "N. Tsopotos", Greece)
18.00 – 18.10	<i>The Creative Contribution of the 'A' in the SPICE STEAM Project “Odysseus’ Raft”</i> (Maria Nimpi - 21 st Gymnasium of Patras, Greece)
18.10 – 18.20	<i>Mathematics and Art in STEAM education</i> (Christina Zourna - University of Macedonia, Greece)
16.00 - 17.10	<i>Parallel session II - Presentations by educators (online - in the English language)</i> Moderator Spyros Papadakis – Hellenic Open University
16.00 – 16.10	<i>Integrating Entrepreneurship into Inclusive STEAM Education for Workforce Readiness Among Students in Public Universities in Anambra State, Nigeria</i> (Gabriel Chidiebere Alonta, Chioma Stephanie Mbaegbu and Martha Chidiebere Orabueze - Nnamdi Azikiwe University, Nigeria)
16.10 – 16.20	<i>Breaking Barriers with Code: Robotics and Coding for Inclusive STE(A)M Education</i> (Çelebi Kalkan - Murat Kantarcı Science and Arts Center, Türkiye, & Fatma Bozkurt - Erciyes University, Türkiye)
16.20 – 16.30	<i>Smart Classrooms, Smarter Inclusion: STEAM for Equitable Education</i> (Kalyan Banerjee - Adamas University, India; Vishal Kumar - Adamas University, India; Sukanya Singh - Central Institute of Educational Technology, India)
16.30 – 16.40	<i>Through Technology Towards Equal Opportunities in History Education</i> (Maja Lukic Puskaric - Dubovac Primary School, Croatia)
16.40 – 16.50	<i>The Power of Inclusive STEAM Education in Nigerian Tertiary Education</i> (Charity Egbo - Abia State University, Nigeria)
16.50 – 17.00	<i>Exploring the impact of absenteeism rate on academic performance in inclusive STEM classrooms: causes, consequences and implications for global education</i> (Ngozi Ezenwosu & Ahmed Oyeyemi - Nnamdi Azikiwe University, Nigeria)
17.00 – 17.10	<i>An Assessment of the Relationship Between Teachers’ Retraining Strategies and Job Effectiveness in Special Needs Schools in Cross River State, Nigeria</i> (Adaku Ngene - University of Nigeria, Nigeria; Ejom Ikana - University of Calabar, Nigeria; Constance Ebele – Nnamdi Azikiwe University, Nigeria; & Edut Obona - University of Calabar, Nigeria)
18.20 - 18.30	<i>Conclusions – End of the Conference</i>