

<div> <div> <h1>HSCI2025</h1> <p>Cairo Egypt 14-18 December 2025</p> <p>www.hsci.info/hsci2025</p> </div> <div> </div> </div>		
Day 1 (14/12/2025)		
Duration	Plan	Details
9:30 - 10:00	Registration	
10:00 - 10:40	Opening and Honorary Words	<p>Physicist. <i>Emad El-Shafey</i>, <i>Tesla Academy</i>.</p> <p>Prof. <i>Tarik Qabiel</i>, <i>Cairo University</i></p> <p>Prof. <i>Josep Fernandez Novell</i>, <i>HSCI and University of Barcelona, Spain</i></p> <p>Prof. <i>Medhat A. Ibrahim</i>, <i>National Research Centre, Egypt</i></p>
10:40 - 12:30	Workshop 01: Science Cafe	<p><b>SC-01:</b> Science for the Society: Science Café - (<i>Medhat A. Ibrahim</i>).</p> <p><b>SC-02:</b> AI as a New Scientific Paradigm: Accelerating Discovery, Hypothesis Generation, and Autonomous Research &amp; Development - (<i>Hanan Elhaes</i>).</p> <p><b>SC-03:</b> Novel Composite Biomaterials: A Cornerstone for Regenerative Medicine - (<i>Yousef E. Hashem</i>).</p> <p><b>SC-04:</b> Advances in Dental Composite Biomaterials: Classification, Properties, and Clinical Impact - (<i>Yousef E. Hashem</i>).</p> <p><b>SC-05:</b> AI-Accelerated Development of PET/rGO Composites for Advanced Flexible Electronics - (<i>Sheimaa Ibrahim</i>).</p> <p><b>SC-06:</b> AI as the Catalyst: Revolutionizing CO2 Capture through Accelerated Materials Design and Process Optimization - (<i>Sheimaa Ibrahim and Fatma Mohamed</i>).</p> <p><b>SC-07:</b> Exploring Materials from the Local Egyptian Environment by Consulting Artificial Intelligence (AI) - (<i>Self Eldin Mohamed and Essam Ehab</i>).</p> <p><b>SC-08:</b> Science Café: Enhanced Electrodes for Salinity Gradient Power Cells Using Activated Carbon-Coated Stainless Steel Mesh - (<i>Mostafa Wael, Mohammed Waleed</i>).</p> <p><b>SC-09:</b> Using of zinc nanoparticles and zinc oxide quantum dots as nano fertilizer in regulation of growth and biochemical parameters of cucurbita pepo Lujain - (<i>Abdelsalam said Mustafa</i>).</p> <p><b>SC-10:</b> Methane miner: plasma-based methane conversion system - (<i>Basel Mahmoud &amp; Moaz Yehia</i>).</p> <p><b>SC-11:</b> BioHybrid Self-Powered Amplifying Sensor System (Bio-SPAS) - (<i>Malak Sameh Mohammed</i>).</p>
12:30 - 13:30		Coffee Break
13:30 - 15:30	Workshop 02: Hands on Physics	Basics of Electricity and Electronics using Science Kits - ( <i>Emad El-Shafey</i> )
	Oral Session 01: [ O-24, O-01, O-02, O-29, O-13, O-28, O-36]	<p><b>O-24:</b> Two Decades of Hands-on Science. Looking ahead. (<i>Manuel F. M. Costa</i>) (Online).</p> <p><b>O-01:</b> The COQC and the experimental sciences. Hands-on experiments with simple and inexpensive materials - (<i>Josep M. Fernandez</i>)</p> <p><b>O-02:</b> Hands-on workshop on Structured Query Language (SQL): Demonstration - (<i>Evangelia Petraki</i>)</p> <p><b>O-29:</b> Unveiling the Dark Energy: Tracing the Universe's Expansion Rate. (<i>Amritansh Mehrotra</i>)</p> <p><b>O-13</b> Education and Artificial Intelligence in Ukraine: Prospects, Challenges and Strategic Directions - (<i>Iryna Berezovska</i> (Online)</p> <p><b>O-28</b> Ethical Use of Artificial Intelligence in Higher Education in Ukraine - (<i>Mariia Holovchak</i> (Online)</p> <p><b>O-36</b> Presentation of the HSCI2026 conference (Lviv, Ukraine) - (<i>Nazar Podolchak</i>, Head of the Department of Administrative and Financial Management; <i>Nataliya Shakhovska</i>, Rector of Lviv Polytechnic National University. <i>Andriy Moskalenko</i>, Deputy Mayor of Lviv. ( Online - video)</p>
	Workshop 03: The Robotics Workshop	Robotics workshop/demonstration "Build Your Own "Litter-Tracker" Robot" - ( <i>Lemonia Golikidou</i> )
Day 2 (15/12/2025)		
Duration	Plan	Details
10:00 - 11:30	Workshop 04: Scientoons and Science learning	Learn how to create Scientoons and make Science learning simple, interesting and Enjoyable - ( <i>Pradeep Srivastava</i> ).
	Workshop 05: Integrating Minds and Hands	Reinforcing Concepts and Constructing Understanding: Integrating Minds and Hands - ( <i>Raj Mehrotra</i> )
11:30 - 12:30		Coffee Break
12:30 - 14:30	Oral Session 02: [O-18, O-19, O-06, O-04, O-05, O-25, O-31, O-33, O-34, O-35]	<p><b>O-18:</b> Can science be taught to children? – (<i>Josep M. Ferandez</i>)</p> <p><b>O-19:</b> Women in Chemistry, a short history – (<i>Carme Domenech</i>).</p> <p><b>O-06:</b> Beach Cleaning Robotics Project: An Educational Environmental Initiative – (<i>Lemonia Golikidou</i>).</p> <p><b>O-04:</b> Social Networking Analysis - (<i>Zoi Aikaterini Parianou</i>).</p> <p><b>O-05:</b> Beyond Grooming: Understanding What Pet Owners Value Most in Pet Grooming Services- (<i>Flora Anna Rafaella Parianou</i>).</p> <p><b>O-25:</b> Hands-on Physics: The Pathway to Pleasure in Teaching and Learning Process – (<i>Emad El-Shafey</i>).</p> <p><b>O-31:</b> New and Interesting Devices for Teaching the Entire Wind Power System (<i>Chien-Heng Chou</i>)</p> <p><b>O-33:</b> STEM in Action: Student-Designed Adaptation Solutions to Climate Change (<i>Anna Pateraki</i>).</p> <p><b>O-34:</b> Lens Blocking Solution Using Synthetic Gypsum-Based Plaster for Optical Glass Lenses - (<i>Miguel Branco</i>) (Online) <b>O-35:</b> Concentration of Tantalum, Niobium and Associated Elements in Tantalite Ore from the Mutala Region in Mozambique - (<i>Ramadane Rasse</i>) (Online - video)</p>
14:40 - 16:20	Oral Online Session 03 :[O-32, O-23, O-27, O-21, O-22]	<p><b>O-32:</b> A Key Instrument for Innovative Real-Image Formation Teaching Resources (<i>Chien-Heng Chou</i>)</p> <p><b>O-27:</b> Hands-on STEM Education Models: The Case of UAE Schools and Universities. (<i>Prof. Sufian A. Forawi</i>)</p> <p><b>O-21:</b> Example of Global S.O.S. Project Enhancing Students' Ecological Awareness Through Digital Story of Endemic Species' - (<i>Ozlem Ortak</i>)</p> <p><b>O-22:</b> Joint Project of Global S.O.S. Example: Evaluating Natural Alternatives to Chemical Pesticides: Environmental and Soil Health Perspectives. (<i>Ozlem Ortak</i>)</p> <p><b>O-23:</b> Sweet illusion - how a STEAM Project Develops Critical Thinking About Food Products – (<i>Anna Michniewska</i>)</p>
Day 3 (16/12/2025)		
Duration	Plan	Details
10:00- 11:30	Oral Online Session 04: [O-14, O-34, O-15, O-16, O-17, O-26]	<p><b>O-14:</b> No Barrier to Vision – (<i>Aysenur Aytekin</i>).</p> <p><b>O-34:</b> 6Th National Science and Environmental Education Festival and 7th International Children"s Summit. (<i>Yasmin Eren</i>)</p> <p><b>O-15:</b> The Effect of Family-Involved Environmental Education Practices on Children's Scientific Process Skills and Environmental Awareness The Case of Global S.O.S. "Little Explorers" – (<i>Beylem Vurgun</i>).</p> <p><b>O-16:</b> Green Mind Lab – (<i>Betul Gumus</i>).</p> <p><b>O-17:</b> Electron transport and oxidative phosphorylation taught through a traditional narrative – (<i>Josep Centelles</i>).</p> <p><b>O-26:</b> Easy Method to get rid of Hyacinth Distribution in Nile River and Canals. (<i>Ahmed Zayed</i>)</p>
11:30 - 12:30	Workshop 06: Hands-on Diffraction	Hands-on Diffraction - ( <i>Jose Benito Vazquez-Dorrio</i> ) (Online)
12:30 - 13:00		Coffee Break
13:00 - 15:00	Oral Online Session 05: [ O-07, O-08, O-09, O-12, O-10, O-11]	<p><b>O-07:</b> MIND OF PERCEPTRON: A Simple tool to understand the basics of the first neural network – (<i>Felipe Passarinho</i>).</p> <p><b>O-08:</b> Creating of STEM – Equipment: Entangling for Quantum Mechanics Education (Workshop) – (<i>Ksenia Minakova</i>).</p> <p><b>O-09:</b> 6th Science and Environmental Education Festival, 7th International Children's Summit – (<i>Aynur Karabulut</i>)</p> <p><b>O-12:</b> Hands-On Science for Equity: Enhancing STEM Learning Among Marginalized Rural School children in India" – (<i>Sachin Narwadiya</i>)</p> <p><b>O-10:</b> Evaluating Natural Alternatives to Chemical Pesticides – (<i>Ozlem Ortak</i>)</p> <p><b>O-11:</b> Enhancing Students' Ecological Awareness Through Digital Mapping of Endemic Species - (<i>Ozlem Ortak</i>)</p>
Day 4 (17/12/2025)		
Duration	Plan	
9:30 - All Day		Cultural Program
Day 5 (18/12/2025)		
Duration	Plan	
9:30 - All Day		Social Program