ECRICE 2024 – 16 European Conference on Research in Chemical Education						
5 September						
	elcome Desk: Information and Registration					
Time-table	Activity					
9.00-9.20	Opening session					
9.20-10.00	Keynote 1					
	Moderator; João Paulo Leal					
	Silvija Markic					
	Ludwigsburg University of Education					
Room 203	Diversity and Inclusion in Chemistry Education Coffee break / poster session					
10.00-10.20 10.20-12.00	Cone break / poster session Workshop					
10.20-12.00			workshop		W3 - 3D Printing and LASER cutting models to lear Chemistry at Secondary School.	
	W1- How to Publish in Chemistry Teacher International (Room 1.10)		W2 - AI. How can we use it to teach and learn? (Room 201)		ws - superinding and LASER cutding models to lear chemistry at secondary school. Periodic table and electrons, and shape of molecules and ions pollutants of air and water. (Room 1.12)	
12.00-12.40	Keynote 2 Moderator: Jorgica Trivic University of Belgrade					
Room 203						
12.40-14.00	Chemistry and Cultural Heritage Integration in a Sustainable World					
14.00-16.00	Room 1.10	Boom 1.07	Room 1.11	Room 1.12		
14100 10100	Moderator: Teresa Santos Silva	Moderator: Isabel Ribau	Moderator: TBA	Moderator: TBA	Workshop	
4 Parallel sessions 2 Workshop	OP1- The influence of authentic advanced lab experiences on	OP2- Fostering Critical Thinking in Science Education: Definitions,	OP3- A pedagogical strategy centred on water analysis in the	OP4: To stay or not to stay in reality: Insights from Cognitive Load	Workshop	
	students' NOS understanding	Assessments, and Implications for Sustainable Decision-Making	community for a sustainable world: incorporating different elements	Measurements via Electroencephalography and Heart Rate	- W4 - Computer Lab Assignments with tools for Visualizing Chemical Phenomena (Room 203)	
	Iris Shinar	Luc B. Albrecht	of teamwork.	Variability		
			An and B. Barrella	*** N.L.1.121		
	OP5- Laboratory Work for 1st year undergraduates – are we	OP6- Measuring Success in Chemistry Practical Work: A	OP7- Upper secondary students and teachers' experience with a	OP8- Exploring the Role of Non-textual Components in Chemistry		
	making the most of the opportunities? Odilla Finlavson	Comprehensive Review Dominika Koperová	teaching unit on organic synthesis with emphasis on green chemistry Svein Tveit	Learning Lucie Hamerská		
	Odila Finayson	Dominika Koperova	Svein Iveit	Lucie Hamerska		
	OP9- Immersive Technology for Teaching Undergraduate	OP10- Promoting Sustainability in Chemistry through Systems	OP11- Material Stewardship: Framing Education about Chemistry's	OP12- Exploring Sustainable Chemistry Discourse in Serbian		
	Analytical Chemistry in the Laboratory	Thinking for Student Teachers	Mission in Sustainability	Chemistry Textbooks		
	Denise Rooney	Krenare Ibraj	Stephen Matlin	Dušica D. Rodić		
	OP13- Virtual Laboratories: A Blended and Sustainable Pedagogic	OP14- STEM-Lab electrochemistry activity through a	OP15- From Knowledge to Hope: Assessing High School Students'	OP16- The Evaluation of History of Chemistry Chapter in textbooks		
	Approach to Teaching and Learning of Practical Chemistry	contextualized approach	Knowledge of Climate Change, Mitigation, and Adaptation in the	in Turkey		
	Frances Heaney	Cidália André	Context of Constructive Hope	Ilknur şahin		
	OP17- The Arsenator – Using Coca-Cola to Analyse Arsenic in Rice Johannes Passier OP21- Environmental Education Challenges: Understanding Bio- Geo-Chemical Cycles Among Slovenian Pre-Service Teachers Luka Ribi		Nail Kortam			
			OP19- Integrating Systems Thinking Approaches in Chemical	OP20- The Adoption of Green Chemistry in Brazilian Higher		
		Collaborative and Dynamic Learning Environment	Education for Sustainable Development: Exploring the Status Quo	Education		
		Abir Saleh	Elisabeth Hofer	Gildo Girotto Junior		
		OP22- A Case Study on Integrating Sustainability and Project-	OP23- Embedding Systems Thinking into Sustainable Chemistry Course for Pre-Service Teachers. Emmi	OP24- Teachers' role in developing students' agency for SDGs Avshi Sindiani- Bsoul		
		Based Learning in Chemistry Teacher Education Duti Haatainen	Vuorio	Ayshi shidiani- usodi		
16.00-18.00	Room 1.10	Room 1.07	Room 1.11	Room 1.12	Workshop	
4 Parallel sessions 2 Workshop	Moderator: Teresa Santos Silva	Moderator : TBA	Moderator : Madeleine Schultz	Moderator : Isabel Ribau		
	OP25-Impact of Team-Based Learning on Student Engagement	OP26- The Norms of Chemistry and How Students Figure Them	OP27 First Hungarian Results of the IUPAC Teacher Survey on Green	OP28- Enhancing Diversity and Inclusion in Science Teacher		
	and Learning Outcomes in Physical Chemistry	Jonas Niemann	and Sustainable Chemistry Practical Activities. Murányi Zoltán	Education: Insights from a Diagnostic Study.		
	Heili Kasuk			Laura Naumann		
	OP29- Promoting classroom emotional climate for meaningful science learning: Findings from an ADDIE approach	OP30- Computational Methods of Varying Complexity in High School Chemistry	OP31 Green and sustainable practical activities in Serbian secondary schools: The analysis of open-ended IUPAC teacher survey guestions	OP32- Universal Design for Learning - Building a University Culture of Inclusion		
	Tapashi Binte Mahmud Chowdhury	Fredrik L. Holmelin	Tamara Rončević	Denise Rooney	W6 - Computational Thinking and Modelling in Science Education (Room 203)	
	rupushi bince maninda cilowanary	ricenic E rionieni		benise nooney	wo - computationar minking and wouldning in science Education (koom 205)	
	OP33- Science Lessons from the eternal Ice: Glaciers as a	OP34- Pedagogical Content Knowledge and the implementation of	OP35- To do or not to do practical activities: Turkish chemistry	OP36- Sima Lozanić's secondary school chemistry textbooks as		
	Gateway to an education for sustainable development	a Multistrategic Didactic Unit on the theme of Green and	teachers' experiences and views on practical activities and green	artifacts: changes in the Periodic table in late 19th and early 20th		
	Philipp Spitzer	Sustainable Chemistry: first approximations	chemistry reported on IUPAC global survey	century editions		
		Gildo Girotto Junior	Sevil AKAYGUN	Vesna D. Milanovic Mastrapovi		
	OP37- Engaging students in the exploration of Antibiotic	OP38- Nanotechnology Education as a Gateway for Promoting	OP39- Practical (green) chemistry in Czech schools: A myth or reality?	OP40- Drawing Cartoon Strips as a Visualization Tool in Pre-service		
	Coordination Frameworks (ACFs) using sustainable methods	Sustainability	Martin Rusek"	Chemistry Education		
	Patricia Rijo	Riam Abu Much		Jouni Välisaari		
	OP41- A Role-Playing Tabletop Game on Laboratory Techniques	OP42- Environmental literacy of Slovenian chemistry teachers in	OP43-Empowering Green Changemakers: The All Aboard Project's	OP44- The Effect of In-Service Education on Chemistry Teachers'		
	and Chemical Reactivity: Gamifying Organic Chemistry Education	the context of hydrosphere pollution.	Journey Towards Sustainable Education	Understanding of Nature of Science	W7 - Aprendizagem Informal em Química (LAB)	
	João Avó	Luka Vinko	Ângela Gordino	Suat CELIK		
18.00-18.20	Coffee break/poster session		•			
18.20-20.00	Symposium 1: Empowering Agency: Research, Development, and Implementation in Chemistry and SDGS Education					
	Organizer: Rollonder					
	Gair: Rachel Mamlok-Naaman					
	Speakers: Debora Marchak, Inna Ag, Shelley Rap and Rachel Mamlok-Naaman					
Room 203	Discussant: Ron Blonder					
19.30-20.30	Welcome Reception					