ECRICE 2024 – 16 European Conference on Research in Chemical Education					
5 September					
9.00-19.00 Welcome Desk: Inf	formation and Registration				
Time-table	Activity				
9.00-9.20	Opening session				
9.20-10.00	pening session writer that the				
	Negrator: João Paulo Leal				
	Silvija Markic				
	Ludwigsburg University of Education				
Room 204	Diversity and Inclusion in Chemistry Education Diversity and Inclusion in Chemistry Education				
10.00-10.20	Coffee break / poster session				
10.20-12.00			Workshop		
	W1- How to Publish in Chemistry Teacher International (Room 112)		W2 - Al. How can we use it to teach and learn? (Room 107)		W3 - 3D Printing and LASER cutting models to lear Chemistry at Secondary School. Periodic table and electrons, and shape of molecules and ions pollutants of air and water (Room 115)
12.00-12.40	Keynote 2				
	Moderator: Adelino Galvão				
	Dragica Trivic				
Room 204	in the state of th				
12.40-14.00	Chemistry and Cultural Heritage Integration in a Sustainable Wor	d			
14.00-16.00	Lunch Room 110	Room 107	Room 111	Room 112	T
14.00-10.00	Room 110 Moderator: Ron Blonder	Room 107 Moderator: Isabel Ribau	Room 111 Moderator: Teresa Santos Silva	Moderator: Adelino Galvão	Warlinker
					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	
	students' NOS understanding Iris Shinar	Assessments, and Implications for Sustainable Decision-Making	community for a sustainable world: incorporating different elements	Measurements via Electroencephalography and Heart Rate	
	IIIS SIIIIlai	Luc B. Albrecht	of teamwork.	Variability	
	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?	Comprehensive Review	teaching unit on organic synthesis with emphasis on green chemistry		W4 - Computer Lab Assignments with tools for Visualizing Chemical Phenomena (Room
	Odilla Finlayson	Dominika Koperová	Svein Tveit	Lucie Hamerská	204)
	OP9- Immersive Technology for Teaching Undergraduate	OP10- Promoting Sustainability in Chemistry through Systems		OP12- Exploring Sustainable Chemistry Discourse in Serbian	
	Analytical Chemistry in the Laboratory	Thinking for Student Teachers	Mission in Sustainability	Chemistry Textbooks	
4 Parallel sessions 2	Denise Rooney	Krenare Ibraj	Stephen Matlin	Dušica D. Rodić	
Workshop	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	Ilknurşahin	
	·		Nail Kortam	·	
	OP17- The Arsenator – Using Coca-Cola to Analyse Arsenic in Rice	OP18 Important Moments among Chemistry Teachers in a	OP19- Integrating Systems Thinking Approaches in Chemical	OP20- The Adoption of Green Chemistry in Brazilian Higher	1
	Johannes Passler	Collaborative and Dynamic Learning Environment	Education for Sustainable Development: Exploring the Status Quo	Education	W5 - Sustainable Chemistry in the School Laboratory (LAB)
		Shirly Avargil	Elisabeth Hofer	Gildo Girotto Junior	ļ
	OP21- Environmental Education Challenges: Understanding Bio-	OP22- A Case Study on Integrating Sustainability and Project-	OP23- Embedding Systems Thinking into Sustainable Chemistry	OP24- Teachers' role in developing students' agency for SDGs	
	Geo-Chemical Cycles Among Slovenian Pre-Service Teachers	Based Learning in Chemistry Teacher Education	Course for Pre-Service Teachers. Emmi	Ayshi Sindiani- Bsoul	
	Luka Ribič	Outi Haatainen	Vuorio		
16.00-17.40	Room 110	Room 107	Room 111	Room 112	Workshop
10.00-17.40	Moderator: Teresa Santos Silva	Moderator : Isabel Ribau	Moderator : Madeleine Schultz	Moderator : Adelino Galvão	workshop
	OP25-Impact of Team-Based Learning on Student Engagement		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	OP26- The Norms of Chemistry and How Students Figure Them Jonas Niemann	and Sustainable Chemistry Practical Activities. Murányi Zoltán	Education: Insights from a Diagnostic Study.	
	Heili Kasuk	JOHN J. HELLINGTON	and Sasamosic chemistry Fractical Activities, Wildeliyi Zolldii	Laura Naumann	
	OP29- Promoting classroom emotional climate for meaningful	OP30- Computational Methods of Varying Complexity in High	OP31 Green and sustainable practical activities in Serbian secondary	OP32- Universal Design for Learning - Building a University Culture	1
	science learning: Findings from an ADDIE approach	School Chemistry	schools: The analysis of open-ended IUPAC teacher survey questions	of Inclusion	
	Tapashi Binte Mahmud Chowdhury	Fredrik L. Holmelin	Tamara Rončević	Denise Rooney	W6 - Computational Thinking and Modelling in Science Education (Room 204)
	,			,	Comparational Hillianing and Wiodening in Science Education (Additi 204)
	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	
4 Parallel sessions 2	Philipp Spitzer	Sustainable Chemistry: first approximations	chemistry reported on IUPAC global survey	century editions	
Workshop		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 Proceeding	
	Coordination Frameworks (ACFs) using sustainable methods	Sustainability	Martin Rusek"	Chemistry Education	
	Patricia Rijo	Riam Abu Much		Jouni Välisaari	
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	OP41- A Role-Playing Tabletop Game on Laboratory Techniques	OP42- Unlocking Knowledge: Can Nanochemistry Escape Rooms	OP43-Environmental literacy of Slovenian chemistry teachers in the	OP44- The Effect of In-Service Education on Chemistry Teachers'	W7 - Química para os mais novos:
	and Chemical Reactivity: Gamifying Organic Chemistry Education	Promote Learning?	context of hydrosphere pollution.	Understanding of Nature of Science	THE CHALLENGE (LAB)
	João Avó	Shelley Rap	Luka Vinko	Suat CELIK	
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	Coffee break/poster session				
27140 20100					
27140 20100	Symposium 1: Empowering Agency: Research, Development, an	d Implementation in Chemistry and SDGs Education			
27140 20100	Symposium 1: Empowering Agency: Research, Development, an Organizer: Ron Blonder	d Implementation in Chemistry and SDGs Education			
17.40-18.00 18.00-19.40	Symposium 1: Empowering Agency: Research, Development, an Organizer: Ron Blonder Chair: Rachel Mamlok-Naaman				
18.00-19.40	Symposium 1: Empowering Agency: Research, Development, an Organizer: Ron Blonder Chair: Rachel Mamlok-Naaman Speakers: Debora Marchak, Inna Ag, Shelley Rap and Rachel Man				
27140 20100	Symposium 1: Empowering Agency: Research, Development, an Organizer: Ron Blonder Chair: Rachel Mamlok-Naaman				