EU	ROVARIETY 2021 Or	nline Con	ference Programme		
			July 7 2021		
13.00	Conference opening				
13.30- 14.30	Plenary 1: Ilka Pa	rchmann Context-based learning at the unive	ersity - an interface between chemistry, chemis	try teacher and public education	
14.30- 16.10	Time	Parallel session 1 (20 min, 15 min presentation and 5 min Q&A)	Parallel session 2 (20 min, 15 min presentation, 5 min Q&A)	Parallel session 3 – Slovenian chemistry teachers (15 min, 10 min presentation, 5	
		Chair: Martin Rusek	Chair: Gabriel Pinto	min Q&A) Chair: Vesna Ferk Savec	
	14.30-14.50	Teaching and learning chemical kinetics as part of a physical chemistry course to chemistry majors <u>G. Tsaparlis</u> , C. Stroumpouli	Complementing laboratory work with virtual labs, home experiments and visualization <u>S. Herzog</u>	14.30-14.45 Sourdough bread as science investigation <u>R. Flander</u>	
	14.50-15.10	Freshmen students' ability to perform basic chemistry calculations <u>M. Rusek</u> , M. Frolíková, K. Vojíř	Context and inquiry-based chemistry teaching and learning for engineering students <u>G. Pinto</u>	14.45-15.00 Encouraging creative approaches in teaching and learning chemistry in primary school L. Javoršek	
	15.10-15.30	Using Static Colored Visual Representations of Chemical Bonding: An Analysis of Students' Responses Using the SOLO Taxonomy <u>E.T. Pappa,</u> G. Pantazi <u>,</u> G. Tsaparlis, B. Byers	A Whole Team Approach to Embedding a Culture of Feedback between Student & Staff Partners in First Year Chemistry <u>F. Heaney,</u> D. Rooney, O. Fenelon, T. Kraemer, E. Dempsey, S. Barrett, C. Boylan, K. Doherty, L. Marchetti, J. Curran. T. Velasco-Torrijos	15.00-15.15 Learning with the help of a fabricated model of the atom <u>T. Bervar</u>	
	15.30-15.50	Identifying significant indicators that predict success in online general chemistry courses Y. Feldman-Maggor, R. Blonder, I. Tuvi-Arad	Two Successful Hooks for Learning Organic Chemistry at University Level K. Mackey, <u>G. P. McGlacken</u>	15.15-15.30 How fusion energy could save the world electrical energy need-motivation and authentic task for students on a secondary level chemistry R. Rudež	
	15.50-16.10	An indicator of inquiry skills of the pre-service science teachers in inquiry-based analytical chemistry courses: a case study of achievement goal orientation <u>B. Feyzioğlu</u>	Problems and Problem Solving in Chemistry Education <u>G. Tsaparlis</u>	15.30-15.45 Research on the usage of face masks considering the sustainable (environmental) aspect <u>V. Švab</u>	
				15.45-16.00 Experimental investigation of the coloration of substances <u>P. Flajnik</u>	

				16.00-16.15	
				Groundwater protection	
				M. Hrovatin	
16.10-		Coffee breek			
16.25		Coffee break			
16.25-	Publishing	Acquaintance with Chemistry Teacher International (CTI)	A Manuscript's Journey	: writing, submission and publication in CERP!	
17.25	Workshops	<u>J. Apotheker</u> , R. Mamlok-Naaman	<u>G. Lawrie</u>		
17.30-	EuChemS Div ChemEd Annual General Meeting				
19.30					
		July 8 2021			
13.00-					
13.00-	Plenary 2: Charlie	Cox Acid-Base Chemistry: Longitudinal Study Across the Chemistry	Curriculum		
14.00-	Time	Parallel session 4 (20 min, 15 min presentation, 5 min Q&A)	Parallel session 5 (20 min, 15 min presentation, 5 min Q&A)		
16.00	Chair: Seamus Delaney		Chair: Natasa Brouwer		
	14.00-14.20	Sustainable Development Goals – Teachers' transition from Learners to	STEM Future Faculty Per	ceptions and Decisions about Selected Instructional	
		Developers	Innovations	- The Role of Perceived Characteristics	
		<u>S. Rap</u> , R. Blonder		<u>A. Kraft</u> , M. Stains	
	14.20-14.40	Green analysis of phosphate in diverse matrixes using a smartphone-based	Exploration of the Relationship between Departmental Climate an		
	detector <u>R. S. Hernández</u> , A. Pastor, A. Morales-Rubio, M. L. Cervera		Teaching and Adoption of Learner-centered Instructional Practice Lu Shi, M. Stains		
	14.40-15.00	Situating sustainable development within chemistry education through	Exploring the relationships between pedagogical content knowledge		
	1	systems thinking oriented outreach activities in primary and secondary school	resonance and student learning outcomes among Organic Chemistry teache		
		<u>S. Delaney</u> , M. Schultz	in the United States		
			M. Stains, D. Xue, J. Mitchell-Jones, E. Atieh		
	15.00-15.20	On-line vs. traditional pre-service teachers' achievements in chemistry lab	Roadmap for continuous professional development of STEM lecturers		
		work	<u>N. Brouwer</u> , S. Grecea, J. Kärkkäinen, I. Maciejowska, M. Niemalä		
	15.20-15.40	<u>L. Vinko</u> , I. Devetak How to write a lab report: A hands-on approach to improve chemistry		Women in Science	
	15.20-15.40	undergraduate writing skills		R. Mamlok-Naaman	
		<u>N. García Doménech</u> , A. Sanz Arjona, J. O'Donoghue, P. N. Scully		N. Walliok Wallian	
	15.40-16.00	Project-Based Learning in Times of COVID-19 – Both a Challenge and an			
		Opportunity			
		<u>V. Ferk Savec</u> , K. Mlinarec			
16.00-		Coffee break			
16.15					
16.15- 16.30	A Word from the Sponsors				
10.50					

16.30- 17.30	Workshop sessions (55 min +5 min Q&A)	Workshop 1: Teaching Efficient Experimentation in Chemistry <u>V. Kraft</u>	Workshop 2: New chemical compound 3D modelling tool for students and chemistry teachers <u>D. Dolničar</u> , B. Boh Podgornik	Workshop 3: Impressive Science Teaching Experiments (ISTE) presenting "Tsipouro", the Traditional Greek Spirit, in the University Laboratory <u>D. Korakas</u>	Workshop 4: Creative Connections': helping students link ideas between topics both in- class and online M. Coffey, <u>J. Leinster</u>	Workshop 5: Online support of organic chemistry classes with Zosimos <u>E. Biró</u> , Z. Szabó
17.30- 19.15	Poster session	5 min for poster presentation and 2 min for Q&A Chairs and poster evaluators: Rachel Mamlok-Naaman, Karolina Broman, Stefanie Herzog 1. K.U. Antela, M.L. Cervera, R.S. Hernández, I. Adam-Cervera, A. Pastor, A. Morales-Rubio: Laboratorio RPG Docente: A game-based learning 2. S. Kieferle, I. Devetak, S. Hayes, J. Essex, M. Stojanovska, S. Markic: Diversity in Science towards Science Inclusion - A topic for pre-service chemistry teacher education 3. I. Koter: Stimulating university chemistry students' interest in nuclear and radiochemistry by problem-based laboratory 4. K. Vo, E. Yuriev, M. Sarkar, P. White: Student engagement with problem-solving scaffolds in chemistry: teaching associates' perspectives and practices 5. M. Slapničar, I. Devetak: Strategies for solving the chemical problem of redox reaction of sodium chloride synthesis from elements: An eye-tracking analysis 6. C.Piperidi, A. Kontogianni, K. Akrida-Demertzi, G.Tsaparlis Are Industrial Foods Always Good for a Healthy Diet? 7. J. Küsel, S. Markic: Using Participatory Action Research in Higher Education for Developing Interactive Learning Media 8. M. Slapničar, M. Vošnjak: Mentoring gifted high school graduates, future students in the natural sciences: An example of good practice				

		10. K.U. Antela, M.L. Cervera, A. Morales-Rubio, M.J. Luque: Green Extraction Meth	hod for Azo Dyes Determination by Using Sheep Wool		
		11. <u>C. Piperidi</u> , K. Akrida-Demertzi, P. G. Demertzis, G. Tsaparlis: Chemistry Students' Knowledge and Awareness About Basic Food Constituents, their Features and Role			
		12. N. L. Burrows, J. Neugebauer, S. R. Mooring, A. Nehring: Students` Profiles in the Chemistry Laboratory Environments: Moving from a Phenomenographic to a Quantitive Assessment			
		13. T. Ilioska, J. Hočevar, M. Rihtaršič, A. Mavsar, J. Zabel, Ž. Mole, E. Kerpan, J. Koler, J. Pust, M. Starešinič, J. Iskra: 3D Printed Models for Chemical Education			
	14. J. O'Donoghue, N. Garcia Domenech: Creating Shared Experiences for Outreach in a Virtual World				
	15. C. Mönch, S. Markic: Exploring Future Chemistry Teachers' Pedagogical Scientific Language Knowledge				
		July 9 2021			
13.00- 14.00	Plenary 2: Dav	id Read Chemistry Education in 2020/21: Mitigation, Evolution or Revo	olution?		
14.00-	Time	Parallel session 6 (20 min, 15 min presentation and 5 min A&Q)	Parallel session 7 (20 min, 15 min presentation and 5 min A&Q)		
16.00		Chair: Luca Szalay	Chair: Dragica D. Trivic		
	14.00-14.20	Effective ways of teaching experimental design skills L. Szalay, R. Borbás, Z. Tóth ³	Flipped organic chemistry – in the light of Corona <u>K. Broman</u> , D. Johnels		
	14.20-14.40	Development of pre-service chemistry teachers' ability to notice even under lockdown L. Honskusová, M. Rusek	Lessons from COVID-19 Times – Should Prospective Teachers Develop Their Own Online Classrooms Already During Their Tertiary Education? <u>K. Mlinarec</u> , V. Ferk Savec		
	14.40-15.00	Peer Assessment Using the Example of a Student Recording an Experiment <u>N. Golob</u>	Pre-service chemistry teachers' perception of the educational processes during the COVID-19 pandemic D. D. Trivic, V. D. Milanovic		
	15.00-15.20	Investigation of Pre-service Chemistry Teachers' Pedagogical Content Knowledge Regarding Acids-Bases İ. Sahin	Teaching and learning chemistry during the quarantine – the case of the laboratory working B. Dojer		
	15.20-15.40	Bringing Chemical Biology to First-Year Organic Chemistry: Adapting Workshops to Remote and Online Contexts J. L. Kiappes	Development of TPACK and self-efficacy for online Instruction by advanced degrees lecturers during the COVID-19 breakout <u>R. Blonder</u> , S. Rap, Y. Fledman-Maggor		
	15.40-16.00	Combining Virtual Reality and Zoom to visualize chemical structures in 3D and develop the spatial ability of university chemistry students <u>K. Broman</u> , E. Chorell, M. Holmboe	Inquiry-based Learning in Education of Prospective Chemistry Teachers <u>Š. Hrast</u> , K. Mlinarec, V. Ferk Savec		