



Time	Wed 3 <sup>rd</sup> July		
11.00-13.45	<p><b>Registration – C1 corridor</b></p> <p><b>Poster set-up</b></p>		
14.00-14.30	<p><b>Opening session: Chair: Peter E. Childs Jean Monnet LT</b></p> <p>Welcome remarks by Prof. Don Barry, President UL; Professor Kieran Hodnett, Dean of Engineering and Science; Pat Hobbs, President, Institute of Chemistry of Ireland; Professor Ilka Parchmann, Chair, EuCheMS, Division of Chemical Education</p>		
14.30-15.25	<p><b>Plenary 1: 'Teaching college chemistry: context, collaboration and communication'</b></p> <p><b>Reiner Glaser</b></p> <p><i>Sponsored by Merck Sharp and Dohme</i></p> 		
15.30-16.30	<table border="0"> <tr> <td style="vertical-align: top;"> <p><b>Session 1A John Holland LT D1050</b></p> <p><b>Theme: Organic Chemistry</b></p> <p><b>Chair: Claire McDonnell</b></p> <p><b>1:</b> 'Computer says no .. knowing when enough technology is enough!', <b><u>Barry Ryan</u></b></p> <p><b>2:</b> 'Is there a place for closed, well-structured problems in PBL?', <b><u>Mike Casey</u></b></p> <p><b>3:</b> 'Blended learning and self-assessment to support teaching in organic chemistry', <b><u>David Read and Charles Harrison</u></b></p> </td> <td style="vertical-align: top;"> <p><b>Session 1B Charles Parsons LT C1063</b></p> <p><b>Theme: General Chemical Education</b></p> <p><b>Chair: Mariann Holmberg</b></p> <p><b>4:</b> 'Development of tailored interventions to improve conceptual understanding', <b><u>Madeleine Schultz, Gwen Lawrie, Tony Wright, Tim Dargaville, Roy Tasker, Mark Williams, Glennys O'Brien, Simon Bedford</u></b></p> <p><b>5:</b> 'A multi-method investigation of university student's knowledge regarding chemical representations', <b><u>Vahide Taskin, Sascha Bernholt and Ilka Parchmann</u></b></p> <p><b>6:</b> 'Tools for university studies', <b><u>Nina Aremo, Anu Keski-Koukkari and Taina Kaivola</u></b></p> </td> </tr> </table>	<p><b>Session 1A John Holland LT D1050</b></p> <p><b>Theme: Organic Chemistry</b></p> <p><b>Chair: Claire McDonnell</b></p> <p><b>1:</b> 'Computer says no .. knowing when enough technology is enough!', <b><u>Barry Ryan</u></b></p> <p><b>2:</b> 'Is there a place for closed, well-structured problems in PBL?', <b><u>Mike Casey</u></b></p> <p><b>3:</b> 'Blended learning and self-assessment to support teaching in organic chemistry', <b><u>David Read and Charles Harrison</u></b></p>	<p><b>Session 1B Charles Parsons LT C1063</b></p> <p><b>Theme: General Chemical Education</b></p> <p><b>Chair: Mariann Holmberg</b></p> <p><b>4:</b> 'Development of tailored interventions to improve conceptual understanding', <b><u>Madeleine Schultz, Gwen Lawrie, Tony Wright, Tim Dargaville, Roy Tasker, Mark Williams, Glennys O'Brien, Simon Bedford</u></b></p> <p><b>5:</b> 'A multi-method investigation of university student's knowledge regarding chemical representations', <b><u>Vahide Taskin, Sascha Bernholt and Ilka Parchmann</u></b></p> <p><b>6:</b> 'Tools for university studies', <b><u>Nina Aremo, Anu Keski-Koukkari and Taina Kaivola</u></b></p>
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18.00-18.45	<p><b>Plenary 2: 'Enhancing the Student Experience in Undergraduate Chemistry' <u>David McGarvey</u></b></p> <p><b>Chair: Jane Essex John Holland LT D1050</b></p> <p><b>Sponsored by the Royal Society of Chemistry's Chemical Education Research Group (CERG)</b></p> 		
18.45-20.00	<p>Drinks reception and Poster Session - C1 corridor</p>  <p><b>Bord Fáilte</b> Irish Tourist Board <i>Sponsored by Bord Fáilte</i></p>		
20.00-23.00	<p>Barbeque in the Stables Club in the Students Union Courtyard on Campus. <b>(ticket needed)</b></p>		

Time		Thursday 4 <sup>th</sup> July	
09.00-10.00	<b>Plenary 3: 'Translating university chemistry for the classroom'</b> <i><b>Sabine Streller</b></i> <b>Chair: Pat Hobbs John Holland LT D1050</b>  <b>Sponsored by the Institute of Chemistry of Ireland</b>		
10.00-11.00	<b>Session 3A John Holland LT D1050</b> <b>Theme: Chemistry Teacher Education</b> <b>Chair: Jan Apotheker</b>  <b>13: 'Tailored chemistry teacher education', <i><b>Jan Lundell and Jouni Väliisaari</b></i></b>  <b>14: 'Cooperation with industry as a part of chemistry teachers' training at Jagiellonian University', <i><b>Iwona Maciejowska</b></i></b>  <b>15: 'To what extent can pre-service chemistry teachers deal with structure-property relations?', <i><b>Stefanie Herzog, Sascha Bernholt, Mirjam Steffensky and Ilka Parchmann</b></i></b>	<b>Session 3B Charles Parsons LT C1063</b> <b>Theme: Science Outreach and Communication</b> <b>Chair: Sarah Hayes</b>  <b>16: 'From the classroom to the lecture theatre: Innovative ways to bring Chemistry and Chemical Research to Life.', <i><b>Sylvia Draper and Paula Colavita</b></i></b>  <b>17: 'Providing chemistry outreach for primary pupils: the experience of Bristol ChemLabs', <i><b>Tim Harrison</b></i></b>  <b>18: 'Promotion and outreach activities', <i><b>Pauline Connell and Debbie Willison</b></i></b>	
11.00-11.30	<b>Coffee/tea – C1 corridor</b>		
11.30-12.45	<b>Session 4A John Holland LT D1050</b> <b>Theme: Chemistry Teacher Education</b> <b>Chair: Orla Kelly</b>  <b>19: 'A new course module on education for sustainable development (ESD) and green chemistry in chemistry teacher education', <i><b>Ingo Eilks and Mareike Burmeister</b></i></b>  <b>20: 'Green chemistry: classroom implementation of an educational board-game ', <i><b>Mike Coffey</b></i></b>  <b>21: 'Impacts of a training program on prospective chemistry teacher's content knowledge, understanding and pedagogical content knowledge related to misconceptions .', <i><b>Buket Yakmaci-Guzel and Sibel Yigit</b></i></b>  <b>22: 'When more is less: does more chemistry mean less understanding?', <i><b>Muireann Sheehan and Peter E. Childs</b></i></b>	<b>Session 4B Charles Parsons LT C1063</b> <b>Theme: Chemistry Lecturer Continuous Professional Development (CPD)</b> <b>Chair: Paul Yates</b>  <b>23: 'The Australian chemistry discipline network', <i><b>Mark Buntine, Gwen Lawrie, James Mitchell Crow, Glennys O'Brien, Madeleine Schultz, Siegbert Schmid, Daniel Southam, Brian Yates</b></i></b>  <b>24: 'ICAB: a Dutch interuniversity chemistry lecturers network', <i><b>Martin Goedhart</b></i></b>  <b>25: 'University teaching qualifications for chemistry teachers', <i><b>Jan Apotheker</b></i></b>  <b>26: 'Training Teaching Assistants for Introductory University Level Chemistry Laboratories', <i><b>Nada Djokic and Hayley Wan</b></i></b>	
12.45-14.00	<b>Lunch - Main Restaurant (ticket needed)</b>		

14.00-15.30	<p><b>Session 5: Workshops (Sign up at registration)</b></p> <p><b>W1:</b> ‘ Wikis – what they are and how they are used to facilitate and assess group assignment ’, <u><b>Claire McDonnell</b></u> <b>Location: CES Computer room</b></p> <p><b>W2:</b> ‘ Getting started in pedagogic research’, <u><b>Tina Overton</b></u> <b>Location: John Holland LT D1050</b></p> <p><b>W3:</b> ‘ Publishing in chemical education – research and popular’, <u><b>Karen Ogilvie and Michael Seery</b></u> <b>Location: Charles Parsons LT C1063</b></p> <p><b>W4:</b> ‘ Promotion and outreach activities ’, <u><b>Sylvia Draper and Tim Harrison</b></u> <b>Location: C1061</b></p>	
15.30-16.00	Tea/Coffee – C1 corridor	
16.00-17.00	<p><b>Plenary 4:</b> ‘Learning chemistry through inquiry’ <u><b>Natalie Rowley</b></u> <b>Chair: Ingo Eilks</b> <b>John Holland LT</b></p> <p> <b>Sponsored by Rusal Aughinish</b></p>	
17.00-18.20	<p><b>Session 6A John Holland LT D1050</b> <b>Theme: Inquiry-based Science Education</b> <b>Chair: Sarah Hudson</b></p> <p><b>27:</b> ‘The relationship between the degree of complexity of inquiry-type experiments and the development of arguments ’, <u><b>Rachel Mamlok-Naaman, Avi Hofstein, and Dvora Katchevich</b></u></p> <p><b>28:</b> ‘An Action Research Study of the Use of Inquiry Laboratory Practicals’, <u><b>Billy Madden and Marion Palmer</b></u></p> <p><b>29:</b> ‘Outcomes, Strategies and Challenges in Implementation of Authentic Chemistry Experiments in the Introductory Lab Curriculum’, <u><b>Vasiliki Lykourinou, Todd Gatlin, Adrian Villalta-Cerdas</b></u></p>	<p><b>Session 6A Charles Parsons LT C1063</b> <b>Theme: Peer Teaching and Learning</b> <b>Chair: Peter Davern</b></p> <p><b>30:</b> ‘Using multimedia resources to facilitate peer-teaching’, <u><b>Dylan P. Williams, David L. Davies, Michelle Balonwu and Manmeet Banwait</b></u></p> <p><b>31:</b> ‘Students supporting students – what can we learn from their questions?’, <u><b>Odilla E Finlayson and Orla Kelly</b></u></p> <p><b>32:</b> ‘A PACT with pharmacy students’, <u><b>Eileen M. O’Leary and Tim P. O’Sullivan</b></u></p> <p><b>33:</b> ‘Peer teaching: taking the recipe out of food analytical chemistry’, <u><b>Julie L. Dunne</b></u></p>
19.15	Pick-up outside Stables for Conference Dinner in the Lakeside Hotel, Killaloe, Co. Clare (ticket needed)	
23.00	Return from Killaloe to hotel/campus accommodation	

Time	Friday 5 <sup>th</sup> July
09.00-10.00	<p><b>Plenary 5:</b> ‘The more we do, the less they do..? Effective use of technology in chemistry education’, <b><i>Michael Seery</i></b>  <b>Chair:</b> Mike Casey John Holland LT D1050</p> <p> <b>RSC HE Award Lecture: Sponsored by the Royal Society of Chemistry’s Tertiary Education Group</b></p>
10.00-11.20	<p><b>Session 7A</b> John Holland LT D1050  <b>Theme: Novel Methods of Teaching and Learning in Chemistry</b>  <b>Chair:</b> David McGarvey</p> <p><b>34:</b> ‘Chemical Experiments: Learning by Collaborative Video Creation’, <b><i>Christian Niemczik, Ingo Eilks and Verena Pietzner</i></b></p> <p><b>35:</b> ‘A Comparative Study of an Online and a Face-to-Face Chemistry Course: Exploring Differences in Students’ Achievements by Using Bloom’s Taxonomy’, <b><i>Ozcan Gulacar, Fehmi Damkaci, &amp; Charles Bowman</i></b></p> <p><b>36:</b> ‘Different Responses to Flipped Learning from Undergraduate Chemistry Students.’, <b><i>David Nutt</i></b></p> <p><b>37:</b> ‘Scaffolding for cognitive overload using pre-lecture E-resources (SCOPE) for first year chemistry undergraduates’, <b><i>Claire McDonnell, Christine O’Connor and Sarah Rawe</i></b></p>
11.20-11.45	<p><b>Coffee/tea in C1 Corridor</b> Poster removal</p>
11.45-13.05	<p><b>Session 8A</b> John Holland LT D1050  <b>Theme: General Chemical Education</b>  <b>Chair:</b> Marie Walsh</p> <p><b>38:</b> ‘Chemistry and science student’s preconditions for university study in Germany and Australia – a comparative analysis’, <b><i>Mareike Klostermann, Siegbert Schmid, Adrian George, Maika Busker, Adam Bridgeman, Ilka Parchmann</i></b></p> <p><b>39:</b> ‘Teaching Chemistry in the Context of a Cross-Disciplinary Research Seminar’, <b><i>Rainer E. Glaser, Jennifer Hart, Eric Ludwig, Jennifer Fellabaum, George Smith, Francis Schmidt, Dix Pettey, and Carmen Chicone</i></b></p> <p><b>40:</b> ‘Exploring the sources of students’ challenges with stoichiometry by using a new coding scheme’, <b><i>Ozcan Gulacar and Charles Bowman</i></b></p> <p><b>41:</b> ‘The Hidden Problem of Language in Teaching Chemistry at Third-Level’, <b><i>Marie C. Ryan and Peter E. Childs</i></b></p>
13.05- 13.15	<p><b>Close of conference: Peter Childs and Ilka Parchmann</b></p>
13.15	<p>Lunch is available in the various restaurants on the University campus at your own cost.</p>
14.00 – 18.00	<p>Optional trip to Bunnratty Castle and Folk Park – please sign up and pay on registration. The bus will pick-up outside on campus outside the Stables and return you there afterwards.</p>
14.15-17.00	<p>EuCheMS Division of Chemical Education Council Meeting  <b>Chair: Ilka Parchmann</b> Faculty Meeting Room, Lonsdale Building</p>