

## Chemical Engineering Education Online Symposium –the next 100 years of Education.

*Sharing innovative practices and discussing the future of education for the profession globally.*

### Program

Time (BST)	Session	
<b>Day 1: 27/June</b>		
<b>8:00-8:15</b>	Welcome and housekeeping	Esther Ventura-Medina, Chair of the EdSIG
<b>8:15-8:45</b>	Discussion –Responsible energy, resources and ethical challenges. <i>Guest: Saeid Baroutian, University of Auckland.</i> <i>Host: Dominic Foo / Jully Tan</i>	
<b>8:45-9:00</b>	Screen free break	
<b>9:00-9:45</b>	Presentations– Current projects and practice	Chair: Michaela Pollock
	EdSIG Sustainability teaching gap analysis	Andrew Hoadley, Monash University
	Mind the Gap: Mapping Digitalisation Skills	Mo Zandi, Sheffield University
	tbc	
<b>9:45-10:00</b>	Screen free break	
<b>10:00-10:45</b>	Morton Medal webinar –	Jarka Glassey –winner of the 2021 Morton Medal  Medal presented by Mark Simmons, University of Birmingham and Lev Sarkisov, University of Manchester
<b>Day 2: 28/June</b>		
<b>8:00-8:15</b>	Networking	

<b>8:15-8:45</b>	Discussion –Systems thinking: dealing with new processes/products & complexity. <i>Guest: Kathryn Hadler, European Space Resources Innovation Centre: ESRIC</i> <i>Host: Peter Swanson</i>	
<b>8:45-9:00</b>	Screen free break	
<b>9:00-9:45</b>	Panel discussion –Students’ perspectives on the future of education <i>Guests: Michael Kalpage, University of Auckland; Sue Wern Lim, Monash University; Marious Norbye, University of Manchester.</i> <i>Host: Naomi Bury</i>	
<b>9:45-10:00</b>	Screen free break	
<b>10:00-10:45</b>	Presentations– Multidisciplinary projects	Chair: Andrew Hoadley
	Challenge-based learning in Chemical Engineering	John van der Schaaf, Eindhoven University of Technology TU/e
	Design and Thinking About Stage 2 Chemical Engineering Course on Design Thinking	May Lim, University of New South Wales
	Online tools for assessing Process Simulation	Luisa Malek, CGC Capital-Gain Consultants GmbH
<b>Day 3: 29/June</b>		
<b>8:00-8:15</b>	Networking	
<b>8:15-8:45</b>	Discussion –Cybersecurity and Process safety <i>Guest: Tristan Hunter, OT Digital Consulting</i> <i>Host: Brent Young</i>	

<b>8:45-9:00</b>	Screen free break	
<b>9:00-9:45</b>	<p>Panel discussion –What knowledge and skills would the future curriculum have?</p> <p><i>Guests: Omar Matar, Imperial College London; Hermann J. Feise, European Federation of Chemical Engineering WP Education &amp; BASF; Tony Heynen, University of Queensland.</i></p> <p>Host: Daniel Beneroso-Vallejo</p>	
<b>9:45-10:00</b>	Screen free break	
<b>10:00-10:45</b>	Presentations– Digital transformation	Chair: Greg Birkett
	Immersive Technologies for Chemical Engineering Education	Chioma Udeozor, University of Newcastle
	tbc	Chris Hamlin, IChemE DigiTAG
	Digital Twins: tbc	Isuru Udugama, University of Waikato
<b>Day 4: 30/June</b>		
<b>8:00-8:15</b>	Networking	
<b>8:15-8:45</b>	<p>Discussion –ChemEng in Space</p> <p><i>Guest: Sarah Blyde, Rocket Labs New Zealand</i></p> <p><i>Host: Marta Granollers-Mesa</i></p>	
<b>8:45-9:00</b>	Screen free break	
<b>9:00-9:45</b>	Presentations –Bio-systems	Chair: Duygu Dikicioglu

	Integrating Bio into the Chem Eng Curriculum – working with industrial partners large and small	James Winterburn, University of Manchester
	tbc	Teresa Gea Leiva, Universidad Autónoma de Barcelona
	Development of Virtual Bioprocess Laboratories	Ulrich Krühne, Technical University of Denmark DTU
<b>9:45-10:00</b>	Screen free break	
<b>10:00-10:45</b>	<p>Panel discussion –How would the future curriculum be delivered?</p> <p><i>Guests: Joanne Tanner, Monash University; Gregor Colville, Herriot Watt University; tbc, Malaysia/Singapore panellist.</i></p> <p><i>Host: Esther Ventura-Medina</i></p>	
<b>10:45-11:00</b>	Closing remarks	Jarka Glassey