IChemE Education Special Interest Group (EdSIG)

Chemical Engineering Education Online Symposium – Digitalisation in Education

Free online event for IChemE members
Date: 15-16 September 2025 | 8:15 –11:00 (BST)

Programme

Time	Format	Day 1 - 15 Sept 2025 **Digitalisation – Preparing graduates to meet industry needs**	Day 2 - 16 Sept 2025 **The Future of digitalisation & AI in education**
08.15		Welcome – *Michaela Pollock, University College London*	Digital Skills for Chemical Engineers – *Mohammad Zandi, University of Sheffield*
08.20-08.45	5-10min flash presentation & discussion	Chair – *Duygu Dikicioglu, University College London* **Industry speaker – what is needed?** Noorhidayah Hussein, Process Simulation Engineer, Petronas, Malaysia Anmol Mhay, Senior Scientist, Lonza, UK	Chair – *Michaela Pollock, University College London* **AI & ethics** David Bogle, University College London
9.00-9.45	Panel discussion	Chair – *Maryam Malekshahian, University of Manchester* **How are we preparing graduates for industry?** Panellists: Academic representative – To Be Confirmed Dan Lee-Lane, Senior Process Engineer, UK Atomic Energy Authority Vivien Thurner, Undergraduate student, University of Newcastle, EdSIG student committee member	Chair – *Greg Birkett, University of Queensland* **Are universities prepared for accreditation? Is accreditation prepared for AI?** Panellists: Chris Rielly, Chair IChemE Education Subcommittee (EdSub), Loughborough University Alexandra Meldrum, Chair, International Science Board, Net Zero Institute, University of Sydney, Member IChemE EdSub Mohammad Zandi, University of Sheffield

09.45-10.00	BREAK		
10.00-11.00	3 x 20 min presentations (15min presentation, 5min Q&A)	Chair – *Cindy Lee, National University of Singapore* **No More Click & Pray: Teaching Aspen Plus the Smart Way,** Percy van der Gryp, University of Pretoria **Cyber security – putting it in the curriculum** Wu Zhe, National University of Singapore **VR/Digital twin in process safety teaching** Mimi Haryani Binte Hassim, Universiti Teknologi, Malaysia Close – Chair	Chair – *Tom Rodgers, University of Manchester* **GPT-based Comprehension Verification in Design Project** Chris Honig, University of Melbourne **Using AI to Support Teaching Design Decisions** Salman Shahid, University of Manchester **"We are not computers, Sebastian, we're physical": AI, ethics, learning and trust in Chemical Engineering** Mark Haw, Abdul Sharif, University of Strathclyde Close – Chair