



Heat Transfer and Fluid Separation in the Energy Transition

Friday 28 March 2025, 10:00 – 17:00



Organised by IChemE's Fluid Separations Special Interest Group and the Heat Transfer Society

Programme

09:30	Nunn Hall (Room 421), IOE, 20 Bedford Way, University College London, WC1H 0AL # Registration, Tea & Coffee	
10:00	Welcome and introduction	Tom Bell, David Martyn & David Norton
10:05	Progressing the energy transition through transformative hydrogen projects	Vincent White, Air Products
10:45	Hydrogen firing in fired heaters	Jonathan Peters, Boustead International Heaters
11:15	AMBURN - Ammonia for rural locations	Prof. Agustin Valera-Medina, Cardiff University
11:45	Coffee break	
12:00	Technology demonstration of electric cracking furnaces – A BASF, SABIC and Linde joint development	Ken Lawson, SABIC
12:30	Role of furnace digital twin models to assess alternative fuel combustion and emissions in practical applications	Dr. Edward Ishiyama, HTRI
13:00	Lunch and networking	
13:50	Move to Room 421, Roberts Building, University College London, Torrington Place, London WC1E 7JE #	
14:00	Enhancing amine carbon capture: Cutting costs and boosting performance with heat exchangers	Marco Gutarra, Alfa Laval
14:30	The role of heat transfer enhancement in absorption-based CO ₂ capture	Dr Peter Drögemüller, Nathan Hill, Dr Hamzah Sheikh and William Osley, Calgavin
15:00	Desublimation for carbon capture	Frank Schmitter, Kelvion
15:30	Coffee Break	
15:50	A system-level, hybrid-AI digital twin approach to optimise heat exchanger cleaning in separation units with heat recovery	Niccolo Le Brun, Hexxell
16:20	Scaling new technologies for the energy transition	Matthew Turnbull, bp
16:45	Closing comments	Tom Bell, David Martyn & David Norton
18:00	Heat Transfer Society and Conference Annual Dinner	

For directions, please see <https://www.ucl.ac.uk/maps>