

AICHE | Department of Chemical Engineering | Imperial College London

Name	Research group	Affiliation	Talk title	Poster presentation	Time (CST)	Room	Location
SATURDAY 07 NOVEMBER							
Martin Trusler	Thermophysics Group / Trusler Laboratory	Professor	Student Chapter & Career Workshops: Imperial College London: Your Future Self is Waiting for You		10:05	Track VII, Minneapolis Convention Center	Minneapolis Convention Center
SUNDAY 08 NOVEMBER							
Mariana Monteiro	Papathanasiou Lab	Research Associate		Systems Approaches to Biological Modelling: From Biomanufacturing to Medicine	13:00	Exhibit Hall B	Level 1, Minneapolis Convention Center

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MONDAY 09 NOVEMBER							
Matthew Marsh	OptiML PSE	PhD	Talk 1 of 2: Bayesian Embedding of Equality Constraints within Probabilistic Neural Networks for Uncertainty Aware Process Modelling		13:08	M100E	Mezzanine Level, Minneapolis Convention Center
Haditya Kukuh Purwanto	Maria Papathanasiou	PhD	Balancing Design Objective and Operational Flexibility in Process Design and Operation using Multiparametric Programming		13:24	M100C	Mezzanine Level, Minneapolis Convention Center
Harrison Fraser	Molecular Systems Engineering	PhD	Applications of an Extended Superstructure Optimisation Formulation to Non-Isobaric Flowsheet Synthesis Problems		14:00	M100C	Mezzanine Level, Minneapolis Convention Center
Alberto Saccardo	Prof Benoit Chachuat (OMEGA Group)	Research Associate	Talk 1 of 3: Model-Based Design of Experiments for Exploration of Feasible Operable Space Under Limited Budget		15:48	M100E	Mezzanine Level, Minneapolis Convention Center
Sam Stricker	Autonomous Industrial Systems Lab and OptiML PSE	PhD	Human-In-the-Loop Multi-Objective Bayesian Optimization for Robust and Constraint-Aware Bioprocess Development		16:06	M100C	Mezzanine Level, Minneapolis Convention Center
Martin Trusler	Thermophysics Group / Trusler Laboratory	Professor	Precision Measurement of the Speed of Sound In Compressed Gaseous and Liquid Normal Hydrogen		16:10	209AB	Minneapolis Convention Center

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Mariana Monteiro	Papathanasiou Lab	Research Associate	Talk 1 of 3: Metabolism-Informed Transfer Learning from Fed-Batch to Continuous Mab Biomanufacturing		16:24	M100C	Mezzanine Level, Minneapolis Convention Center
Alberto Saccardo	Prof Benoit Chachuat (OMEGA Group)	Research Associate	Talk 2 of 3: Species Identification In Multistage Liquid-Phase Oligonucleotide Synthesis Using Liquid Chromatography–Mass Spectrometry Data		16:42	M100C	Mezzanine Level, Minneapolis Convention Center
Amarthya Achmadi	Hallett Group	PhD	From Grass to Films: A Biorefinery Approach to Cellulose from Miscanthus x giganteus		17:42	211A	Minneapolis Convention Center
TUESDAY 10 NOVEMBER							
Camille Petit	Petit Group	Professor	Designing Porous Polymers As Adsorbents for Direct Air Capture of CO ₂		9:40	102B	Level 1, Minneapolis Convention Center
Cleo Kontoravdi	Kontoravdi Group	Professor	Systems Engineering for the Rational Design of Cellular Factories		12:35	M100E	Mezzanine Level, Minneapolis Convention Center
Emma Pajak	OptiML	PhD		Rethinking LLM-In-the-Loop-Bayesian Optimisation: Where, How, and When Should LLMs be Integrated?	15:30	Exhibit Hall B	Level 1, Minneapolis Convention Center
Aynur Atalay	Omar Matar and Klaus Hellgardt	PhD	On the Flow Phenomena Associated with Liquid Plunging Jets: Effect of Jet Velocity, Nozzle Diameter, and Fall Height		15:45	207AB	Minneapolis Convention Center

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Alex Glover	Pini Group	PhD	Talk 1 of 3: Accelerated Optimization and Design Robustness Evaluation of Pressure-Vacuum Swing Adsorption Processes for Post-Combustion CO ₂ Capture		15:55	102F	Level 1, Minneapolis Convention Center
Alberto Saccardo	Prof Benoit Chachuat (OMEGA Group)	Research Associate	Talk 3 of 3: Cross-Technology Design-Space Analysis of Solid- and Liquid-Phase Oligonucleotide Synthesis		17:30	L100E	Lower Level, Minneapolis Convention Center
WEDNESDAY 11 NOVEMBER							
Zhirui (Kristen) He	Pini and Petit Groups	PhD	Performance-Based Material Screening of MOFs for Adsorption-Based Recovery of Methane from Dilute Sources		8:54	200E	Minneapolis Convention Center
Emma Pajak	OptiML	PhD	Sketch2Simulation: Automating Flowsheet Generation Via Multi-Agent Large Language Models		13:42	M100AB	Mezzanine Level, Minneapolis Convention Center
Mariana Monteiro	Papathanasiou Lab	Research Associate	Talk 2 of 3: Learning Cellular Objectives from Multi-Omic Data Via Inverse Reinforcement Learning		14:36	M100C	Mezzanine Level, Minneapolis Convention Center
Amarthya Achmadi	Hallett Group	PhD		Regenerated Cellulose Films from Miscanthus × giganteus: Effects of Pulp Composition, Solid Loading and Additives	15:30	Exhibit Hall B	Level 1, Minneapolis Convention Center
Eleni Chalasti	Ronny Pini, Maria M. Papathanasiou, Gbemi Oluleye	PhD	Location-Specific Design Space Identification In Direct Air Capture Via Adsorption		17:10	102F	Level 1, Minneapolis Convention Center
Alex Glover	Pini Group	PhD	Talk 2 of 3: Learned Step Size Schedules for GPU-Accelerated Evaluation of Process Models		17:18	M100E	Mezzanine Level, Minneapolis Convention Center

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Mariana Monteiro	Papathanasiou Lab	Research Associate	Talk 3 of 3: Codomics: An Algorithm for Cellular Objective Discovery Using Omics Data		17:36	L100C	Lower Level, Minneapolis Convention Center
THURSDAY 12 NOVEMBER							
Matthew Marsh	OptiML PSE	PhD	Talk 2 of 2: Distribution-Free Uncertainty Quantification In Constrained Neural Networks for Model Predictive Control		8:00	101C	Level 1, Minneapolis Convention Center
Maximilian Bloor	OptiML PSE (Antonio del Rio Chanona)	PhD	Talk 1 of 2: Non-Parametric Q-Learning for Process Systems Engineering		9:30	101C	Level 1, Minneapolis Convention Center
Maximilian Bloor	OptiML PSE (Antonio del Rio Chanona)	PhD	Talk 2 of 2: Addressing Terminal Constraints In Reinforcement Learning-Based Demand Response Scheduling		12:48	101C	Level 1, Minneapolis Convention Center
Alex Glover	Pini and Papathanasiou Groups	PhD	Talk 3 of 3: Differentiable Programming for the Simulation and Optimization of Cyclic Adsorption Processes		12:48	101D	Level 1, Minneapolis Convention Center