

Chemical & Materials Engineering

PhD Symposium - 2nd Nov 2020



ENGINEERING

Chemical & Materials Engineering

PhD Symposium | Monday 2nd November 2020

Oral Presentations - City Campus B401.439

09:30 - 09:40	Introduction / Welcome
	Associate Professor Ashvin Thambyah (HOD)
09:40 - 10:00	TBD
	Eldon Tate - CEO Inhibit Coatings
10.00 - 10:15	Zhipeng Zhang Seawater as magnesium source for phosphorus recovery from wastewater
10.15 - 10.30	Matthew Ting Fabrication of stiffness modulated hydrogels
10:30 - 10.45	Badri Narayanan Narasimhan Hydrogen bonding dissipative hydrogels
10.45 - 11.00	Harpreet Kaur Chahal Investigation into the production of calcium phosphate coatings by inflight reaction of precursor feedstocks using plasma spraying
11.00 - 11.15	Ruby-Jean Clark Development of SrCl2-based composite materials for thermochemical energy storage
11.15 - 11.30	Sina Sheikholeslami Long-term field performance of environmental-friendly coil coatings
11:30 - 11:45	Ting Zhang Ag and Co3O4 deposited black TiO2 nanotubes: a dual cocatalyst with enhanced photocatalytic activity for organic pollution degradation under visible light
11:45 - 12:00	Charles Ikutegbe Efficient thermal energy storage system with phase change materials in buildings
12:00 - 13:00	Lunch and Poster Viewing (Neon Foyer)
13:00 - 13.15	Ying Zhu A new method to measure bite force and chewing comfort of elderly consumers
13:15 -13:30	Tarek Kollmetz Surface engineering for stem cell research
13:30 -13:45	Heiana Agnieray <i>Protein-based biomaterials for 3D & 4D printing</i>
13:45 - 14:00	Navid Taghavi Bio-degradation of plastic waste
14:00 - 14:15	Terrell Thompson Influence of hydrothermal pretreatment on biogas and fertiliser production from pelagic Sargassum
14:15 - 14:30	Misagh Ebrahimpour Application of digital twin in process optimization and control
14:30 - 14:45	Mohamed Dabbour Geothermal well optimization using a coupled reservoir and process model
14:45 - 15:00	Subhasree Bhaskar Development of a plasma sprayed catalyst for Wet oxidation of organic waste

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Mahmood Jamil

Sn/TiO2 based hybrid nanostructure materials for electrical energy storage

Kapil Mamtani

Glycerolysis of free fatty acids

Syeda Wishal Bokhari

A hybrid composite of rGO/TiO2 as a double layer electrode with improved capacitance performance

Tingxuan Yang

Discovery of New Narrow-Band Phosphors

Fanglei Tong

Mg anode for Mg air battery

Ramin Razmi

Spray drying process modeling: Evolving a digital twin

Michael Lim

Hybrid Anaerobic Membrane Bioreactor for low-strength wastewater