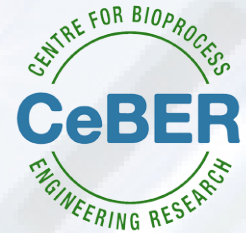




THE CENTRE FOR BIOPROCESS ENGINEERING RESEARCH



SHOWCASE

PROGRAMME - 29th NOVEMBER 2018

	08h30	REGISTRATION & COFFEE	
	08h50	WELCOME	Andrew Bailey Research Contracts & Innovation, UCT
		SESSION 1: 08h50-10h40	Mariette Smart & Didi Makaula
A1	09h00	CeBER Overview	Sue Harrison
A2	09h20	Continuous monitoring of BIOX® communities towards understanding biooxidation performance of mixed bacterial and archaeal communities	Mariette Smart
A3	09h35	Algal biotechnology as a platform to valorise various industrial waste streams in South Africa	Nodumo Zulu
S1	09h50	Bolt from the blue - extracting phycocyanin from Spirulina	Marijke Fagan-Endres
S2	10h00	The effect of carbon dioxide concentration on the activity of periplasmic carbonic anhydrase in microalgae	Qubekani Ngulube
S3	10h10	Microbial kinetics – towards assessing performance in e-waste and biooxidation	Catherine Edward
S4	10h20	The Pulp and Paper Wastewater Biorefinery: potential for concomitant value recovery and wastewater treatment	Shilpa Rumjeet
M1	10h30	The effect of bed and fluid properties on capillary pressure and its impact on the hydrodynamic modelling of heap leaching systems	Michael Odidi
M2	10h33	What's holding us back? Understanding the bottlenecks in enzyme-based petrochemical processes	Bronwyn White
M3	10h36	Plant Microbial Fuel Cells – Adapting to the South African context	Durgaprasad Madras Iyer
	10h40	TEA & POSTER SESSION	
		SESSION 2: 11h15-12h55	Siew Tai & Nodumo Zulu
A4	11h15	ARD prevention through understanding biohydrometallurgy	Thanos Kotsiopoulos
S5	11h35	Fabricated topsoils from South African coal wastes	Juarez Amaral Filho
S6	11h45	Biocatalysis as a green alternative in plastic waste management	Hedda Inderthal
S7	11h55	Cell-free bio-conversion of octane to octanol via a biocatalytic approach	Shanna Swart
S8	12h05	The feasibility of renewable bioenergy production from carbohydrates-rich waste streams: Confectionery waste as a case study	Carol Ngwenya
S9	12h15	The Role of Bioprocessing in the Health Science & the Pharmaceutical Sectors	Siew Tai
KN	12h25	Molecular Farming: making recombinant pharmaceuticals in plants and plant cells	Ed Rybicki, Molecular and Cell Biology



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	12h55	LUNCH & POSTER SESSION	
		SESSION 3: 14h00-15h25	Marijke Fagan-Endres & Michael Odidi
S10	14h00	Development of a hybrid semi-passive bioprocess capable of simultaneous sulphate reduction and partial sulphide oxidation for remediation of acid rock drainage	Tynan Marais
M4	14h10	Insights into the microbial community structure of biological sulphate reducing reactor systems	Tomas Hessler
M5	14h13	Phycoremediation of heavy metal contaminated water streams for the production of fit-for-purpose water and value-added bioenergy	Gordon Dodge
M6	14h16	Engineering co-disposal methods for the prevention of acid rock drainage	Donald Mojonono
M7	14h19	Can fibrous plants serve the joint role of remediation of degraded mine land and fuelling of a multi-product value chain through clean biomass production?	Xhiluke Mabasa
A5	14h25	Bioproducts: Engineering South Africa's Bioeconomy for a Sustainable Future	Siew Tai and Sue Harrison
S11	14h45	A Kinetic & Metabolic Flux Analysis of the Biphasic Acetone-Butanol Fermentation	Muven Naidoo
S12	14h55	Factors affecting pigment production by the filamentous fungus <i>Penicillium purpurogenum</i>	Caryn Horn
A6	15h05	Mixed Microbial Bioprocess Systems for Bioremediation of Mine-Impacted Effluent Waters	Rob Huddy
	15h25	Closing Comments	Thanos Kotsiopoulos
	15h30	BIOPLATFORM LAUNCH	