



INDUSTRY-MEETS-SCIENCE WORKSHOP

“Technology solutions for addressing biomass and organic waste”

Date: 26-27 November 2014

Venue: Unite Building, School of Engineering, University KwaZulu-Natal, Howard College, Durban

Day 1 (26 November 2014) will be focussed on input from generators (industry/business) of large volumes of biomass or organic waste. Outlining –

- The *size* of the problem
- Current *initiatives* by industry in addressing the waste stream, and
- Potential *opportunities* for maximising value recovery

Time	Name	Organisation	Focus area
9:00 – 9:30	Arrivals (Tea / Coffee)		
9:30 – 9:40	Dr Henry Roman	DST (Welcome)	Waste RDI Roadmap
9:40 – 9:50	Dr Linda Godfrey	CSIR (Background and outcomes)	Waste RDI Roadmap
INDUSTRY SESSION – “THE SIZE OF THE PROBLEM AND CURRENT INITIATIVES”			
9:50 – 10:05	Mr Mike Nash	PAMSA - Director Processing Research	Forestry/Fibre
10:10 – 10:25	Mr John Urban	CJ Rance	Timber/Sawmill
10:30 – 10:45	Mr Steve Davis	Sugar Milling Research Institute NPC	Sugar industry
10:50 – 11:05	<i>Questions and Discussion</i>		
11:10 – 11:40	Tea / Coffee Break		
11:40 – 11:55	Dr Bombiti Nanza	ZZ2	Agricultural sector
12:00 – 12:15	Dr Gerhard Neethling	Red Meat Abattoir Association	Abattoir industry
12:20 – 12:35	Ms Sunita Kalan	DST	Industry Innovation
12:40 – 13:00	<i>Questions and Discussion</i>		
13:00 – 13:35	Lunch Break		
13:40 – 13:55	Mr Saliem Haider	Stellenbosch Municipality	Municipality
14:00 – 14:15	Mr Riaz Jogiat	uMgungundlovu Municipality	Municipality
14:20 – 14:30	<i>Questions and Discussion</i>		
14:30– 16:00	Breakaway: <ul style="list-style-type: none">• Main challenges facing generators of biomass or organic waste (wrt alternate solutions)• Research priorities of industry (wrt biomass or organic waste)• Role of Universities and Science Councils in developing, adapting or implementing alternative solutions• Role of intermediaries (technology service providers / consulting engineering companies)		
16:00	End of Day 1		



Day 2 (27 November 2014) is focussed on the R&D community and the technology solutions they are developing, adapting, or localising to address large volumes of biomass / organic waste. Outlining –

- The rationale for targeting specific biomass or organic waste *streams*, and specific *technology solutions*
- *Current R&D initiatives* in addressing targeted biomass or organic waste streams, and
- The *technology readiness* of current R&D

Time	Name	Organisation	Focus Area
8:00 – 8:30	ARRIVALS (TEA / COFFEE)		
8:30 – 8:40	Dr Linda Godfrey	Recap from Day 1 – Challenges facing industry	
8:40 – 8:55	Mr Thabang Bambo	DST	Bioeconomy Strategy
SCIENCE SESSION – “CURRENT RDI TO FIND ALTERNATIVE SOLUTIONS” (TECHNOLOGY FOCUSED)			
9:00 – 9:15	Prof Cristina Trois	University KwaZulu-Natal Dean of Engineering	Anaerobic digestion
9:20 – 9:35	Prof Bret Pletschke	Rhodes University Professor of Biochemistry	Bioconversion of agricultural residues and biobased waste streams
9:40 – 9:55	Dr Bruce Sithole	CSIR (NRE) Group Leader: Forest and Forest Products	Biorefinery, beneficiation of organic waste
10:00 – 10:10	<i>Questions and Discussion</i>		
10:10 – 10:30	COFFEE / TEA BREAK		
10:30 – 10:45	Prof Emile van Zyl	Stellenbosch University Senior Chair of Energy Research: Biofuels	Production of biofuels from cellulosic industrial waste streams
10:50 – 11:05	Dr Kate Haigh	Stellenbosch University Researcher: Process Engineering	Technologies for valorisation of organic waste and industrial biomass
11:10 – 11:25	Dr Linda Linganiso	CSIR (MSM) Senior Researcher: Materials Science & Manufacturing	Biodegradable biocomposites from agricultural and marine wastes
11:30 – 11:40	<i>Questions and Discussion</i>		
11:45 – 12:00	Prof Kugen Permaul	Durban University of Technology	Chitinous waste bioprocessing
12:05 – 12:20	Prof Mike Heydenrych	University of Pretoria Associate Professor: Chemical Engineering	Pyrolysis of biomass
12:25 – 12:40	Dr Rob Pott	University of Cape Town	Bioprocess Engineering
12:45 – 13:15	<i>Questions and Discussion</i>		
13:15 – 13:20	Henry Roman	Closure	
13:20 – 14:00	LUNCH BREAK		
14:00 – 15:30	Tour of Research Facilities		
15:30	End of Workshop		