



## Stellenbosch University, Department of Process Engineering

Stellenbosch, South Africa

<http://processengineering.sun.ac.za/>

<b>Title:</b>	Reactor design for industrial furfural production from sugar cane agricultural residues
<b>Abstract:</b>	Detailed kinetics models are developed for hemicellulose hydrolysis and dehydration, leading to furfural and by-product formation, based on own experimental work. These models are combined with the work from other researchers to develop a comprehensive kinetic model of furfural production from hemicelluloses. The latter model is required for reactor design for furfural production from sugarcane residues and other types of lignocelluloses
<b>Lead institution:</b>	Stellenbosch University
<b>Partner institutions:</b>	-
<b>Student name:</b>	James Coker
<b>Supervisor name:</b>	Prof JF Görgens
<b>Degree:</b>	MEng
<b>Funded by:</b>	CSIR Waste Roadmap
<b>Start date:</b>	Jan 2016
<b>End date:</b>	Dec 2018
<b>Feedstock:</b>	Sugarcane lignocelluloses
<b>Value chain products:</b>	Furfural and derivatives
<b>Geographic source of the feedstock:</b>	KZN