



Stellenbosch University, Department of Process Engineering

Stellenbosch, South Africa

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

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| Title: | Enzymatic modification of lignins isolated from black liquors |
| Abstract: | Lignins in residues such as black liquor represent significant potential for chemicals and materials production. Both monomeric chemicals and polymeric materials, e.g. packaging, can be produced by enzymatic modification of lignins. The present project involves isolation of lignins from black liquors followed by enzymatic modification and purification, to produce monomers and polymers with further applications |
| Lead institution: | Stellenbosch University |
| Partner institutions: | - |
| Student name: | Francois Minaar |
| Supervisor name: | Prof JF Görgens, Dr Luvuyo Tyhoda |
| Degree: | MEng |
| Funded by: | PAMSA |
| Start date: | Jan 2016 |
| End date: | March 2018 |
| Feedstock: | Black liquors and lignocelluloses |
| Value chain products: | Phenols, packaging materials, lignin polymers |
| Geographic source of the feedstock: | KZN, MP, Gauteng |