Contribution ID: **340** Type: **Oral Presentation**

Topic: Conversion of biomass into carbonaceous material: Making synthetic graphite

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Graphite is the most valuable material with many applications such as lithium-ion batteries as anode material. The increase in demand for storage devices prompted researchers to consider other possible, low cost and commercially viable alternatives to meet the demand. The synthesis and application of biomass as carbon have drawn attention due to the host of biomass available for conversion, sustainability and cost effective. The current work focuses on converting biomass wastes into synthetic graphite. Heat is used to process biomass into desired carbon product. The FTIR and UV-vis spectra suggests successful conversion of biomass into carbon. The results show that the obtained graphite-like crystallite-based nanomaterials with tunable dimensions and morphologies has remarkable features, such as high water solubility

Apply to be considered for a student ; award (Yes / No)?

Yes

Level for award;(Hons, MSc, PhD, N/A)?

Hons

Primary authors: Mr NEMAKONDE, Pfano (University of Venda); Dr NEMANGWELE , Fhulufhelo (University of Venda)

Co-authors: Mr MLOTSHWA, Thokozane (University of Venda); Dr JHAMBA, Lordwell (University of Venda)

Presenter: Mr NEMAKONDE, Pfano (University of Venda)

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