The Guyana Innovation Prize

GUYANA
ECONOMIC
DEVELOPMENT
TRUST

LISA N. DUBLIN

Small-Scale Experimental Production of Coconut Shell Activated Carbon for Water Treatment

Goal: Help Nature to Nurture Water Sources

The Problem: Identifying an inexpensive activated carbon that is effective at improving water quality.

The Research: The focus of this project is to optimize the production of granular coconut-shell activated carbon to produce a low-cost activated carbon that is effective in improving water quality.

Potential: This technology will be able to provide an accessible point of use treatment for communities, which may lack resources to access traditional water treatment technologies. Therefore, the customer base would include any person or group of persons that require or use water filtration methods. This product would especially serve small rural communities where access to water treatment technology is limited.

Bio: Lisa N. Dublin is a Lab analyst attached to the Environmental Department of Guyana Goldfields. In this capacity, her primary focus has been monitoring the ion chemistry associated with the effects of the mine site on the waterways.

In 2017, she presented her undergraduate research project at the McNair 's Scholar 's Conference for Undergraduate Research in Florida. Her project focused on developing cost-effective systems for water treatment using natural waste materials. Additionally, Ms. Dublin participated in the Undergraduate Research Conference at the University of Guyana in 2017 and 2018. Outside of her academic works Ms. Dublin is an alumnus of the University of Guyana Chem Club and Campus Lion's Club.

She is a graduate of the University of Guyana where she attained a Bachelor of Science in Chemistry in 2017. Ms. Dublin aspires to attain her post-graduate degree in Biomedical Engineering.