

## **[Episode 6] Bio-alkanol gel made from fruit waste, other bio-based additives and binders to replace conventional cooking fuels.**

### **Episode Introduction:**

Majority of rural households around Lake Victoria rely on solid fuel such as charcoal and firewood for cooking purposes. The usage of firewood has contributed to acceleration of deforestation in Lake Victoria areas. Furthermore, those solid fuels cause indoor air pollution, respiratory illnesses and other diseases. Renewable bio-alkanol gel fuel made from fruit waste has been developed to replace the conventional cooking fuel, thus reducing the reliance on wood-based fuel and health risks. In this episode, Dr. Benson Nyambega will talk about his experience leading the project of commercializing the renewable biofuel “bio-alkanol gel”. \*Read the project story: [URL](#)

### **Guest lecturer:**

- Dr. Benson Nyambega, Maseno University, Kenya

Dr Benson Nyambega is the Director of Research and Innovations, and biochemistry lecturer at the Department of Medical Biochemistry, School of Medicine at Maseno University, Kenya.

His research experience covers vast areas such as intellectual property issues, patenting, molecular biology, molecular immunology, biochemistry, bioinformatics, and functional genomics/reverse genetics. He holds a Ph.D in Molecular Biology and Biochemistry from the Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Argentina. He is also the team leader for the Bioinnovate Africa Programme’s Project on bio-alkanol gel fuel for rural households in the Lake Victoria Basin. Full Dr. Benson Nyambega’s biography can be found here: [URL](#).

### **Industries:**

Energy, Biofuel

### **Lecture date and time:**

16th December, 2021, 12-13:00 PM (GMT)