

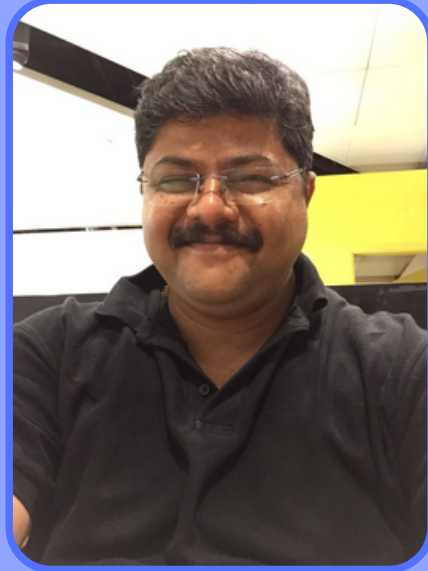
SCIENCE AWARENESS TALK - SERIES VII , 22ND FEB 2024 , 11:30 AM IST

ECO-FRIENDLY AGRO-TECHNOLOGY AND FIELD RESEARCH

TALK A TITLE: COWNOMICS TECHNOLOGY: TRANSFORMING INDUSTRIAL WASTEWATER INTO AGRICULTURAL GOLD

TALK B TITLE: HOW TO INCREASE CROP YIELDS WITHOUT SYNTHETIC FERTILIZER

SPEAKER



Madhukar Swayambhu

RESEARCH HEAD AT
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ABSTRACT - A

This talk explores a transformative approach to address Water stress in the country by turning industrial waste-Water into a valuable asset for agriculture. The realization of "transforming liabilities into assets" is exemplified through the application of the Cownomics Technology, designed for the resurrection of native ecology in Soil, Water, and Air. The experiment took place in Chhattisgarh, utilizing a pond to treat toxic industrial waste-Water from a rice mill alongside organic waste from a nearby gaushala. The Cownomics Technology successfully converted this mixture within 45 days, resulting in Water enriched as a neuro-immuno booster for plants and animals. This innovative solution not only mitigates Water stress but also demonstrates its potential to enhance agricultural productivity and contribute to the rural economy. The success story involves a virus-infected cauliflower crop achieving a remarkable yield, showcasing the promising outcomes of this sustainable Water management strategy.

ABSTRACT - B

All life on Earth continues to be seriously threatened by environmental pollution. While synthetic fertilizers have aided in maximizing crop productivity, their protracted use has harmed soil microorganisms, diminished soil health, and contaminated soil, water, and air. It is critical to reconsider expansion in food production through sustainable means so that crop losses caused by climate change and the growing usage of synthetic chemicals do not worsen our ecosystems. Environmentally friendly and diversified farming practices have the potential to transform agricultural productivity and promote beneficial microbial consortia that support plants and ecosystem services. The importance of focusing on enhancing agricultural crop yields, infrastructure, and cropping practices in a sustainable and eco-friendly manner to build and fortify our agricultural system for future food security will be discussed, as will the importance of innovation in this field.



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