Journal of Energy Research and Environmental Technology (JERET)

p-ISSN: 2394-1561; e-ISSN: 2394-157X; Volume 4, Issue 1; January-March, 2017, pp. 129-129

© Krishi Sanskriti Publications

http://www.krishisanskriti.org/Publication.html

## **Biochemical Engineering Analysis of Biomethanation: Recent Progress**

S.N. Mukhopadhyay

DBEB, IIT Delhi, India

**Abstract**—Industries and domestic wastes in solid and semisolid forms are accumulated in huge quantities in the environment. These are laden with pollutants. Living human genomic body/bioreactors (LHGBRs) are suffering from various ailments/diseases from these pollutants.

Waste to wealth is a common approach in more recent years. Generation of bioenergy by anaerobic digestion (AD) is a well known method. Lot of conceptual advances in research have made this process biotechnology (PB) a reality. Conceptual dynamic variations in methanogens in AD by participation of operon systems of three phases need to integrate this PB by incorporating genetic engineering parameter (GEP), environmental engineering parameter (EEP) and biochemical engineering parameter (BEP) to regulate production of biomethane/biogas. In recent years through bio-mathematical formulations attempt has been made by biochemical engineering analysis to regulate biomethane production. These advances will be described and discussed in this presentation.