

**FACULTY OF LIFE SCIENCES AND BIOTECHNOLOGY**

**SOUTH ASIAN UNIVERSITY**

**GUEST LECTURE SERIES**

Date: **01 SEP 2017** (3 PM)

Speaker: **PROF. VIRENDRA SWARUP BISARIA**

Department of Biochemical Engineering and Biotechnology

Former Dean, Industrial Research and Development (IRD)

Indian Institute of Technology (IIT),

New Delhi – 1100016.

Title of the talk: **Bioconversion of Lignocellulose to Ethanol by Recombinant Yeast**

**Abstract:** For conversion of plant biomass into various bioproducts, a significant bottleneck is enzymatic hydrolysis of lignocellulose to soluble sugars. These sugars are then metabolized through various natural or engineered pathways towards products of interest, such as ethanol. The success of projected biorefinery processes depends to a large extent on the utilization of the two main sugars, glucose and xylose, which are obtained from enzymatic hydrolysis of cellulose and hemicellulose components of lignocellulose. The lecture will highlight the efforts which have been made towards bioconversion of lignocellulose to ethanol by recombinant yeast and other organisms.

**About the Speaker:** Prof Virendra S Bisaria is Professor at Department of Biochemical Engineering and Biotechnology, Indian Institute of Technology Delhi, New Delhi, India. His research interests include Lignocellulose Bioconversion for Biofuels and Bioproducts, Plant Cell Technology, and Biofertilizers. He has published more than one hundred research papers in peer-reviewed international journals. He is an editor of Journal of Bioscience and Bioengineering, and an Editorial Board member of Process Biochemistry and a new journal, Bioresources and Bioprocessing. He along with Prof A. Kondo has edited the book "Bioprocessing of Renewable Resources to Commodity Bioproducts, which was published by Wiley in 2014. He was a member of the team that developed the fed-batch cultivation technology for mass production of biofertilizers which has since been transferred to a large Indian industry. He is also the Vice President of Asian Federation of Biotechnology (AFOB), a member of Bioprocess and Bioseparation Engineering Division of AFOB, and President of AFOB- India Chapter.

**More about the Speaker:** <http://web.iitd.ac.in/~vbisaria/>