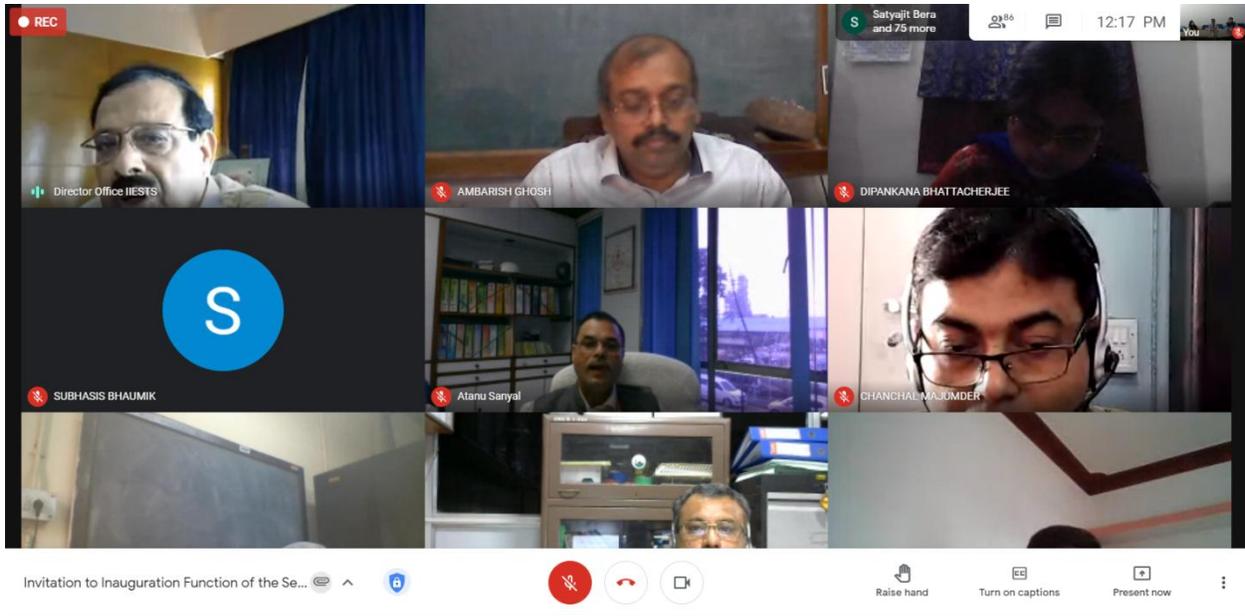


**A Brief Report on 2nd International Conference on
Advanced Technologies for Industrial Pollution Control
(ATIPC – 2020)**

2nd International Conference on Advanced Technologies for Industrial Pollution Control was organized in Online mode by Civil Engineering Department, IEST, Shibpur, during December 16 – 18, 2020. The Conference was inaugurated by the honorable Director Prof. Parthasarathi Chakrabarti and illuminated by Dr. Sukumar Devotta, Former Director, CSIR-NEERI as the chief Guest and Mr. Atanu Sanyal, Chief General Manager (TS & HSE), Haldia Refinery, Indian Oil Corporation Ltd. as the Guest of Honor. There were 4 (four) Keynote Lectures delivered by the eminent speakers including Dr. Sukumar Devotta, Prof. Sachchida Nand Tripathi, Prof. Babu J. Alappat and Prof. Somnath Mukherjee. Technical papers were presented in 9 (nine) Theme areas related to industrial pollution control. 1st, 2nd and 3rd Best Paper Awards were presented to the Presenters of three top scored papers. Glimpses of the conference are presented below with a few Photographs.



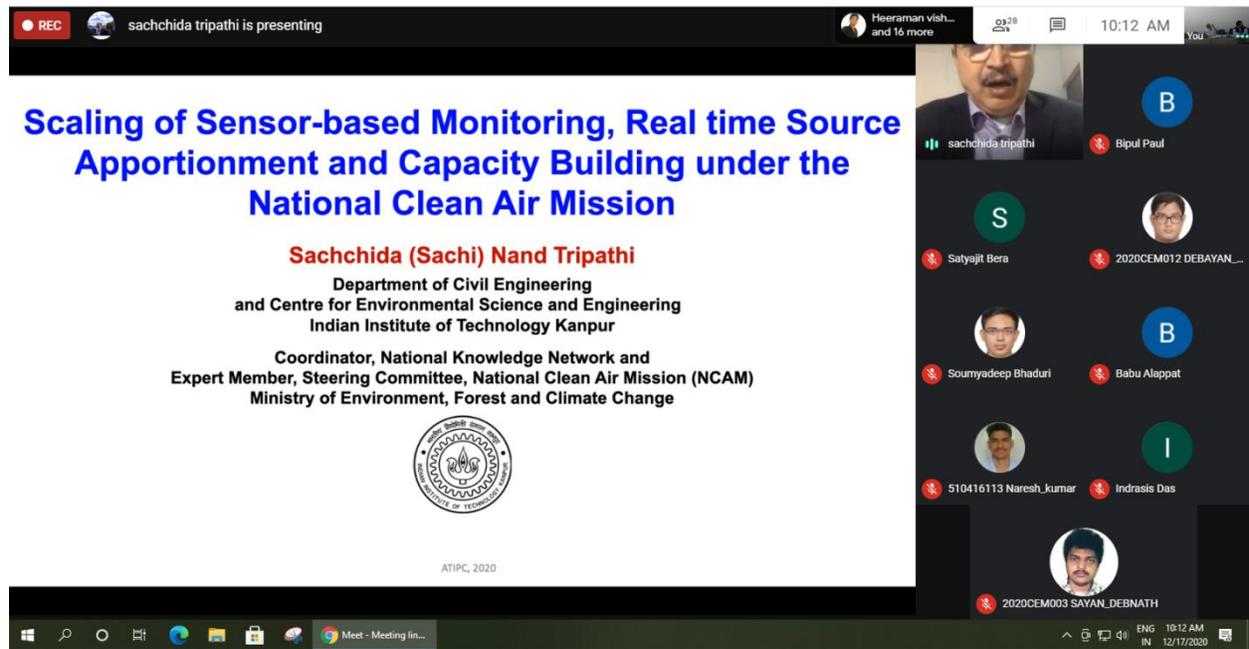
Prof. Parthasarathi Chakrabarti addressing in the Inaugural Function



Dr. Sukumar Devotta addressing in the Inaugural Function



Mr. Atanu Sanyal addressing in the Inaugural Function



Prof. Sachchida Nand Tripathi delivering the Second Keynote Lecture

REC Babu Alappat is presenting 2020CEM015 SOUVIK... and 5 more 2:45 PM You

Generation of Spent wash

Sugar Cane → Sugar Mill

Sugar Mill outputs: Press mud (~0.05ton/ton sugarcane crushed), Sugar, Bagasse (~0.33ton/ tone of sugarcane crushed)

Bagasse → Distillery

Distillery outputs: Alcohol, Molasses (~0.43ton/ tone of sugar produced), Spent wash

Distillery also receives Molasses from the Sugar Mill.

Prof. Babu J. Alappat delivering the Third Keynote Lecture

Somnath Mukherjee

SUGAR TO ETHANOL AUG

I P A S

B A B

Prof. Somnath Mukherjee delivering the Fourth Keynote Lecture

REC Prasenjit Ghosh is presenting 2020MNM001 PRINCE_KU... and 23 more 2:54 PM

Objectives

- To determine bacterial growth & FLU & DBT degradation kinetics, when they are provided as the sole source of carbon and energy
- To estimate the accumulation of intermediates in the aqueous phase during FLU and DBT degradation and evaluate their toxic effects

Strain specifications *Pseudomonas aeruginosa* RS1

Specifications	Description
Source	Oily sludge from refinery
Strain no.	MTCC 25391
Uniqueness	Can degrade: <ol style="list-style-type: none"> Various hydrocarbons PAHs (1-4 rings) Heterocyclics (1-2 rings) Oil in oily sludge Compounds in biomass gasifier wastewater

ATIPC, IEST, 2020 5

Prasenjit Ghosh, Sukha Samadder, Indrasis Das, Heeraman vishwas, rumi bhattacharya, Sanghamitra Parida, Dr. Kurella Swamy, Sushma Das, 2020MNM015 APRATIM_BHATTACH...

One Paper Presentation in Technical Session -1

REC Biswabandhu Chatterjee is presenting Mohammad Anas ... and 13 more 5:12 PM

Introduction

- Each glucose unit is linked with two intra chains and two to three inter chains of hydrogen bonds. These connections make the cellulose structure stable and tightly packed, and, hence difficult to degrade [7].
- Hemicellulose, another major polysaccharide, is a mixture of pentoses, hexoses and xylose, which is the most common type of sugar present in hemicellulose [7].
- Unlike cellulose, hemicellulose can be hydrolyzed very easily.

Structure of LIGNOCELULOSE (after from [7])

Biswabandhu Chatterjee, Sanghamitra Kundu, Sukha Samadder, Chanchal Majumder, rumi bhattacharya, Sanghamitra Parida, Dr. Kurella Swamy, Bipul Paul, Arup Saikar

One Paper Presentation in Technical Session -2

REC SUBHADEEP BISWAS is presenting 2020CEM002 RUPAM_MAN... and 14 more 11:55 AM

Exploring the adsorption and desorption characteristics of Lead(II) ions from synthetically contaminated wastewater by anionic surfactant modified neutral alumina

By
Anish Ranjan Ghosh, Subhadeep Biswas and
Ashish Kumar Nayak

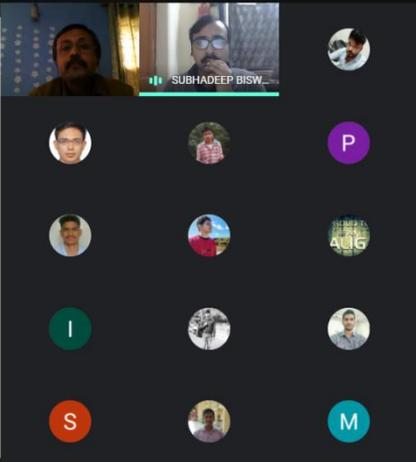
Under the Guidance of
Dr. Anjali Pal

Environmental Engineering and Management
Department of Civil Engineering



Sushma Das has left the meeting

Are you talking? Your mic is off. Click the mic to turn it on.

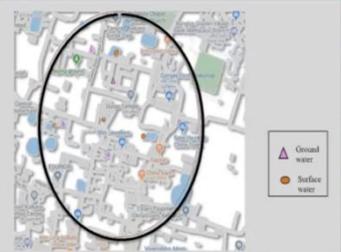


One Paper Presentation in Technical Session -5

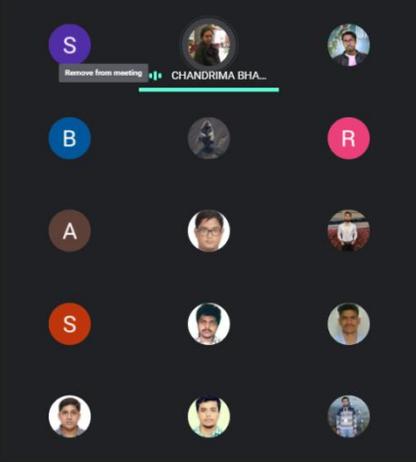
REC CHANDRIMA BHADRA is presenting Raft Shamsah and 12 more 3:05 PM

5

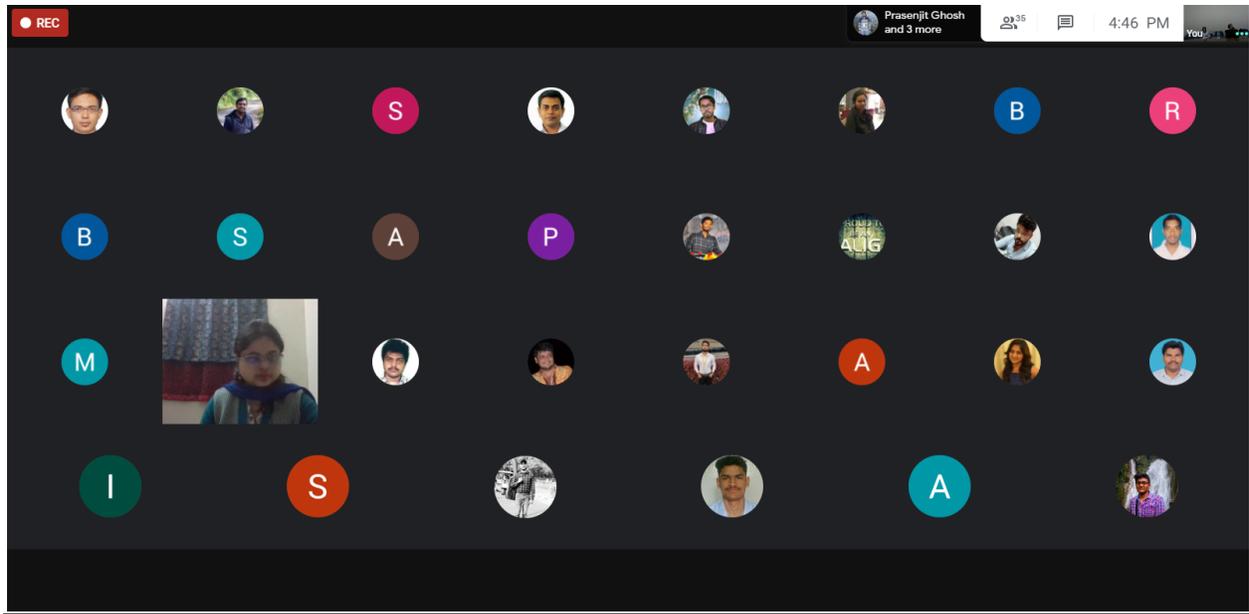
Study Area




Pictorial view of studied small scale leather industry
Location of studied leather industry is in Kolkata at
Tangra region West Bengal India.
Courtesy: Google Earth



One Paper Presentation in Technical Session -6



Participants in the Valedictory Function