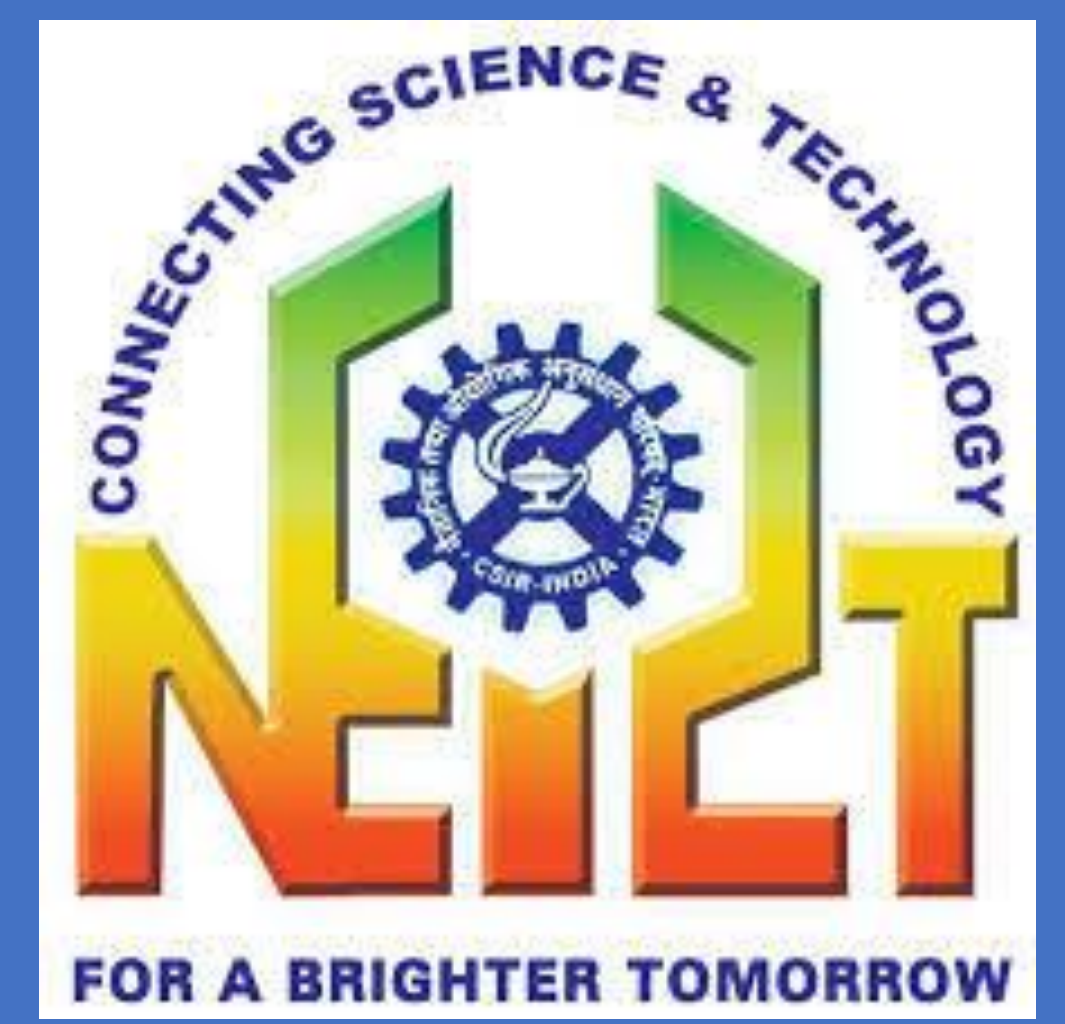




# International Conference on Engineering Sciences & Technologies For Environmental Care (ESTEC-2020)

ESTEC Bulletin

Day-2, 21<sup>st</sup> Feb 2020



## HIGHLIGHTS OF TECHNICAL SESSION AT DR. J.N BORUAH AUDITORIUM, CSIR- NEIST JORHAT (PAGE 1 of 2)



**Dr R.C Boruah**, Emeritus Scientist, & former outstanding Scientist of CSIR-NEIST chaired the technical session.



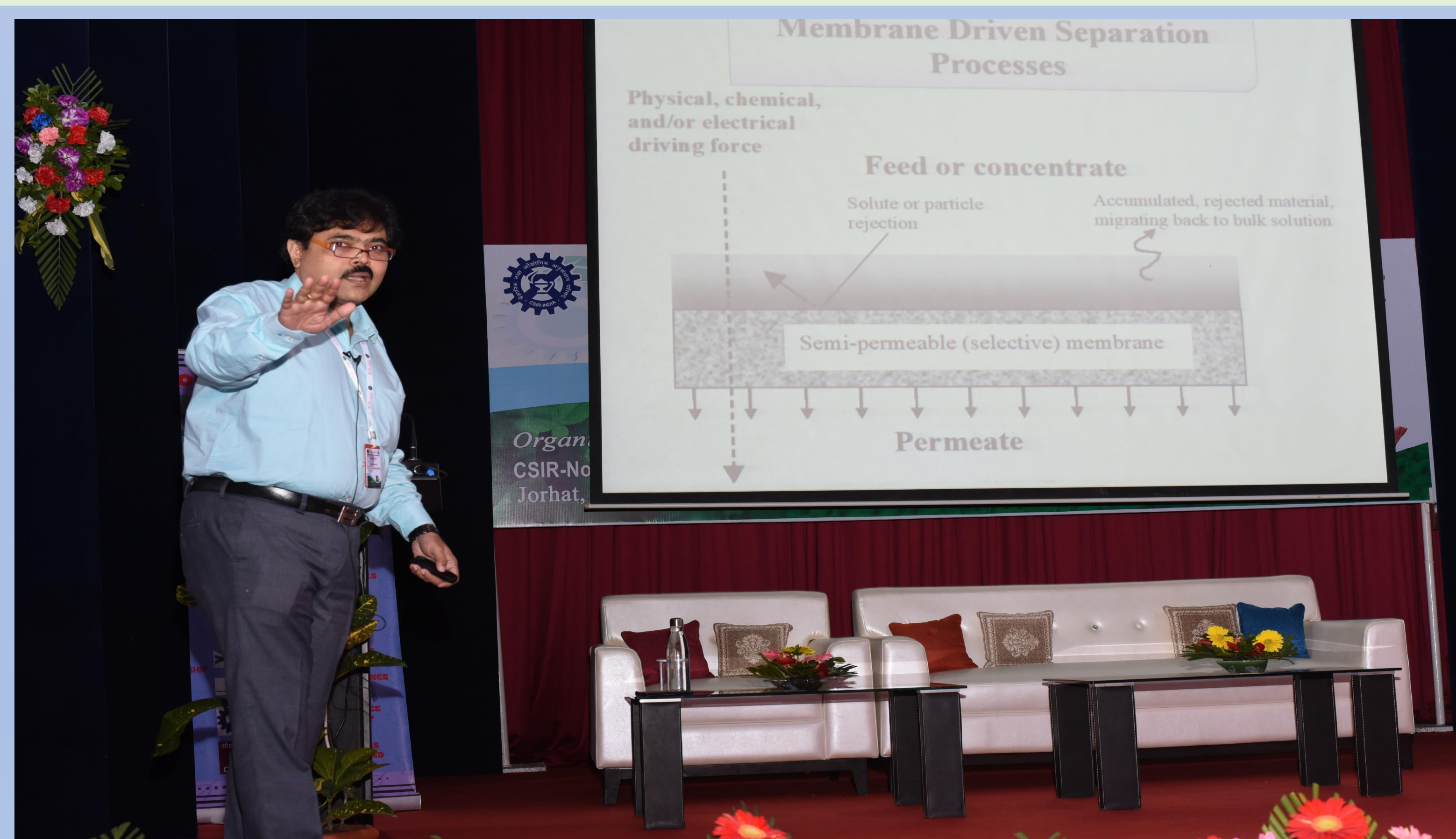
**21<sup>st</sup> February**, The International Mother Language Day has been started by the excellent talk by **Prof. Diganta Bhushan Das**, Loughborough University, UK where he expressed his happiness to give his first lecture at his motherland, Assam He talked about geological carbon dioxide sequestered by dynamic capillary pressure dominated two-phase flow in porous media and application of a membrane based system in the monitoring of the CO<sub>2</sub> in geological sites used for carbon sequestration.



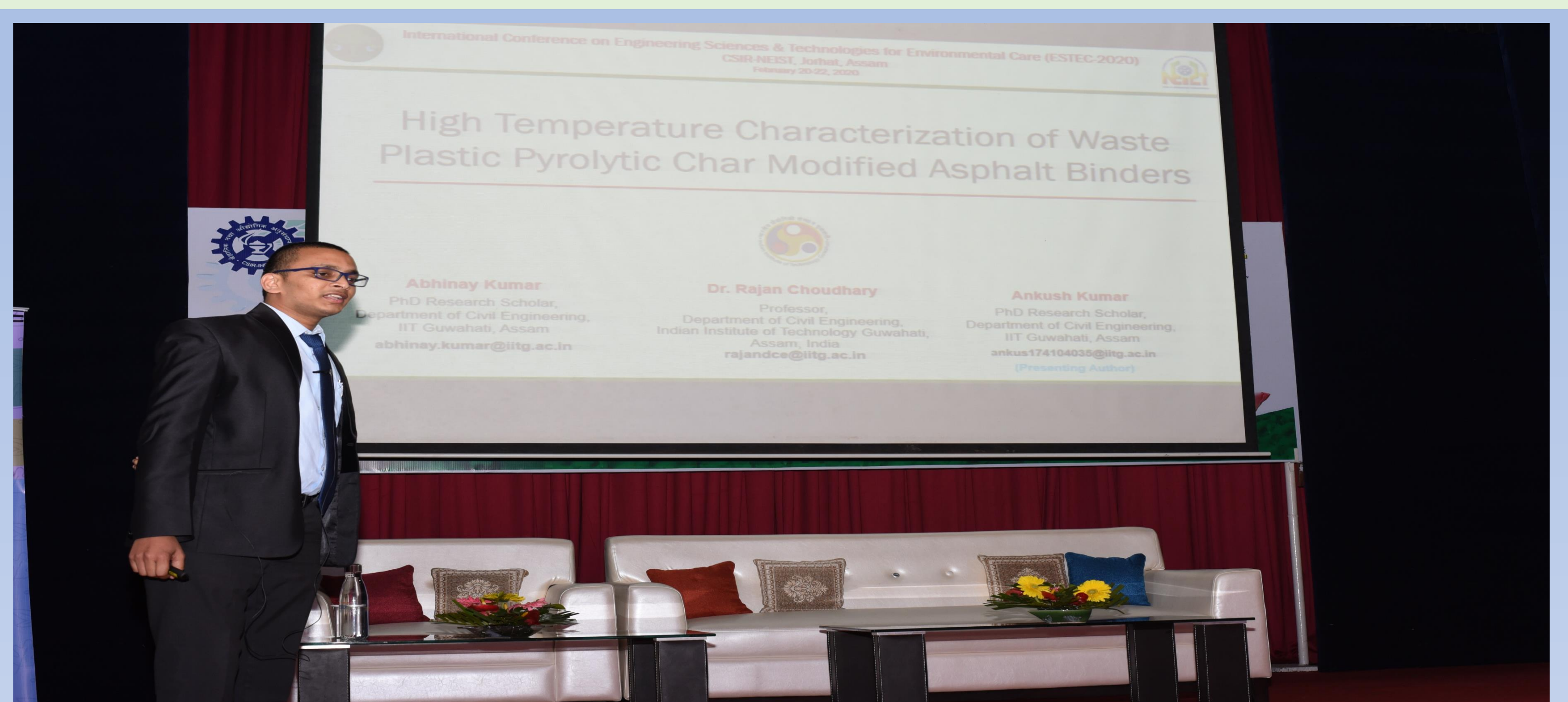
**Dr (Mrs.) B. L. A. Prabhavathi Devi** demonstrated the bio-based amorphous carbon materials are used for preparation of sustainable catalysts for green processes.



**Dr. Ulhas Kharul**, Senior Principal Scientist, CSIR-National Chemical Laboratory displayed the importance of membrane in gas separation. He provided insight of the permeation properties, membrane spinning parameters in obtaining high flux without loss of selectivity.



**Dr Swachchha Mazumdar**, Senior Principal Scientist & Head, Water Technology Division, CSIR-CGRI has told about the ceramic membranes and its applications for the removal of arsenic from water, sugar industries, waste-water from tannery.



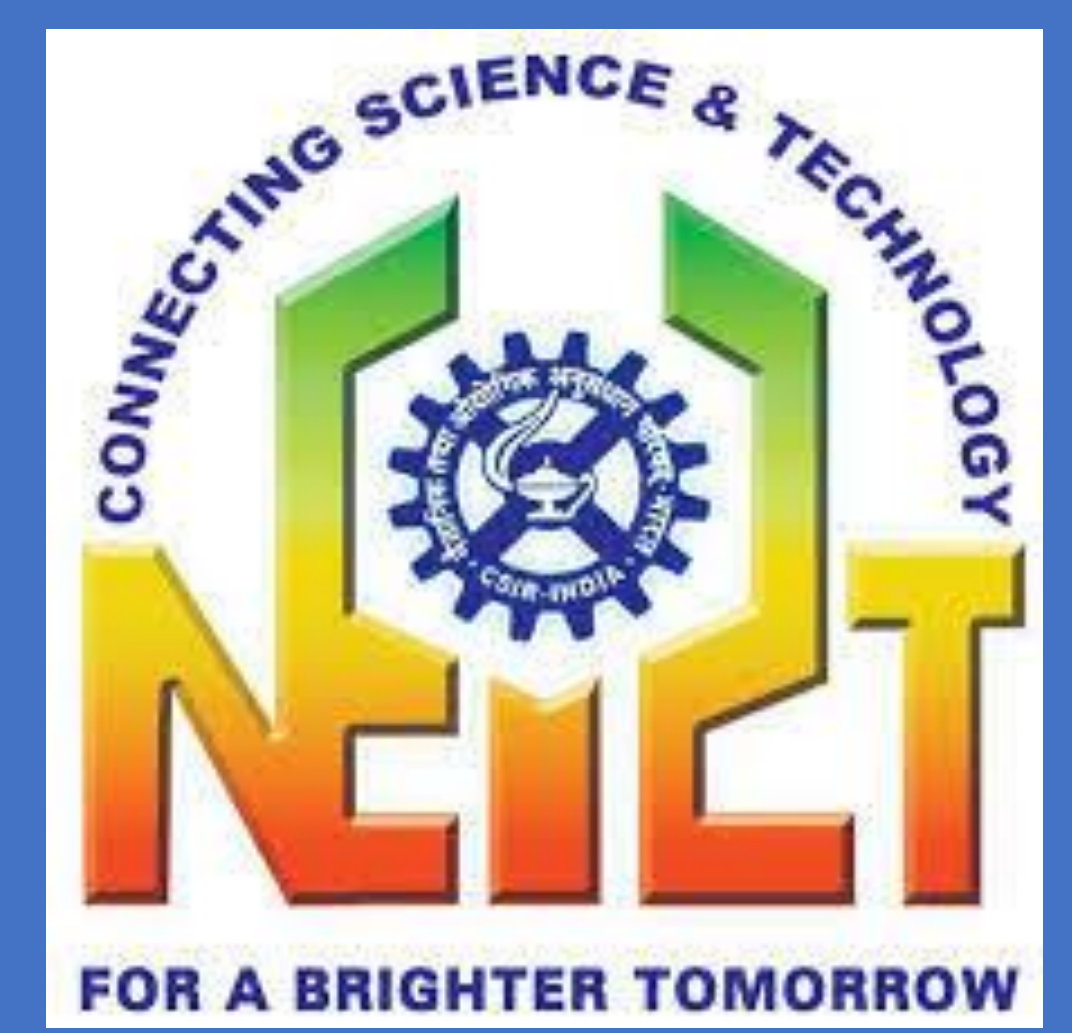
**Mr Ankush Kumar**, IITG, shared his work on high temperature characterization of waste plastic pyrolytic char for modified asphalt binders.



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## HIGHLIGHTS OF TECHNICAL SESSION AT MS IYENGER HALL CSIR- NEIST JORHAT ( PAGE 2 of 2)



**Prof. Siddhartha Lahiri** from Dibrugarh University has provided insight of how Brahmaputra's bed-bank is vulnerable to the temporal variation and it is causing towards flood.



**Prof. Jitendra K Bera** from IIT Kanpur has described the importance of choice and design of ligands in the organometallics chemistry and how it can help to generate hydrogen to solve the energy problem. The establishing of reaction mechanism by controlled experiments and computational study are exciting to listen.



**Dr Samhita Kalita, AAU** told about heat stability of rice endosperm cytosolic ADP Glucose pyrophosphorylase and their role of QTC motif in the small subunit and L379F substitution.

**Prof Sasanka Deka** has shared his contribution on water splitting reaction and elaborated how size distribution of nano particles are playing key role in the catalysis reactions.



**Dr C Kamraj** discussed on toxic solid waste of leather industry waste which are impregnated with bitumen emulsion and its application in design of dense graded dense bituminous concrete mix.



**In Poster session**, 140 numbers of posters are displayed. Participants are enthusiastically presented their works and experts have evaluated all. Altogether 20 posters were adjudged as Best Poster Presentations.

