



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

ESTEC Bulletin

Day-3, 22nd Feb 2020



HIGHLIGHTS OF PLENARY & TECHNICAL SESSIONS

(PAGE 1 of 2)



The Sixth technical session chaired by **Dr (Mrs) Madhavi Sastry**, Schrodinger, D.E Shaw India Software.



Dr Rabah Boukherroub, Institute of Electronics, Microelectronics and Nanotechnology (IEMN), University of Lille, France shared his recent innovation about the strip which has potential to replace the insulin taking by injection. It can provide huge relief to the diabetic patients after successfully trial to human and ethical clearance. Audiences were excited to know his idea to have nicotin strip which will be very much useful for them who wants to quit smoking.



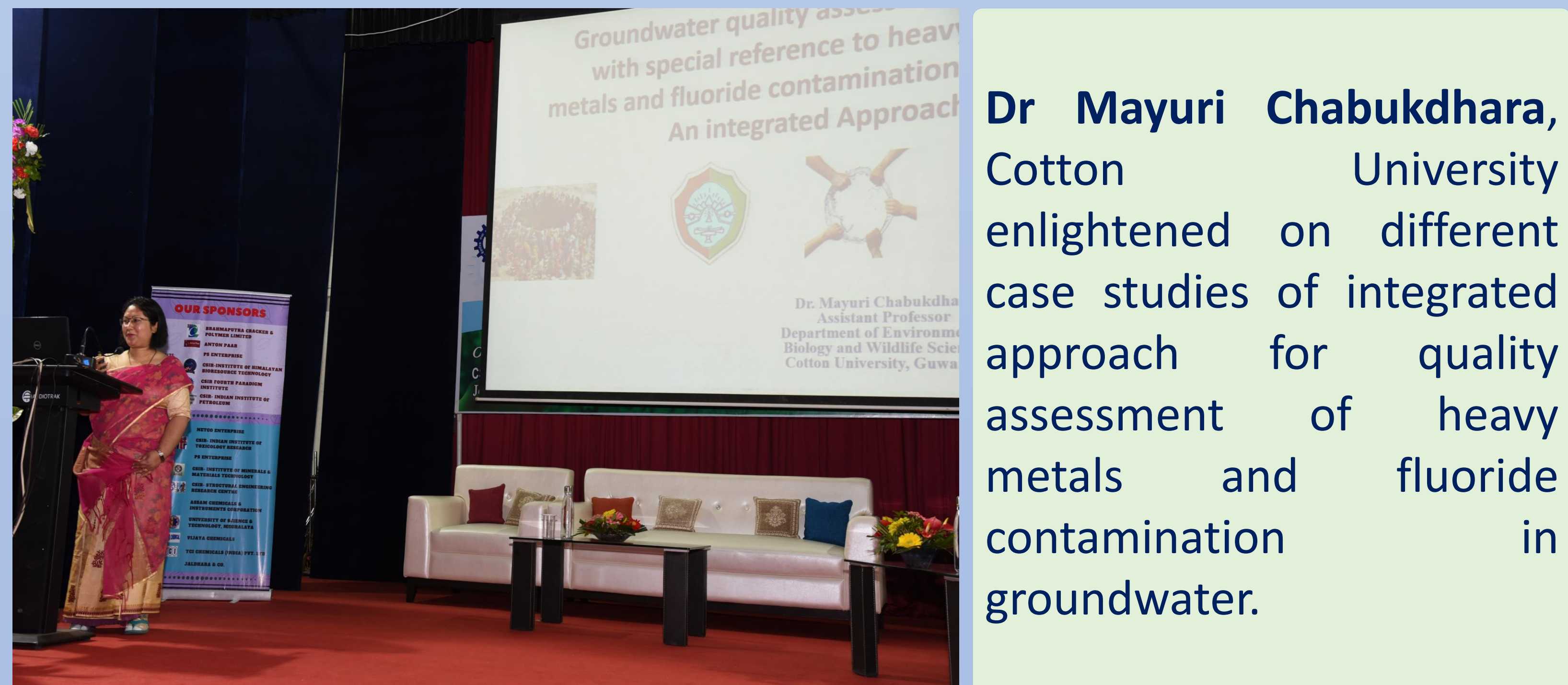
Prof. Rajan Choudhary, Department of Civil Engineering, IITG discussed about the road construction in high rainfall and hilly region to avoid the detrimental accidents.



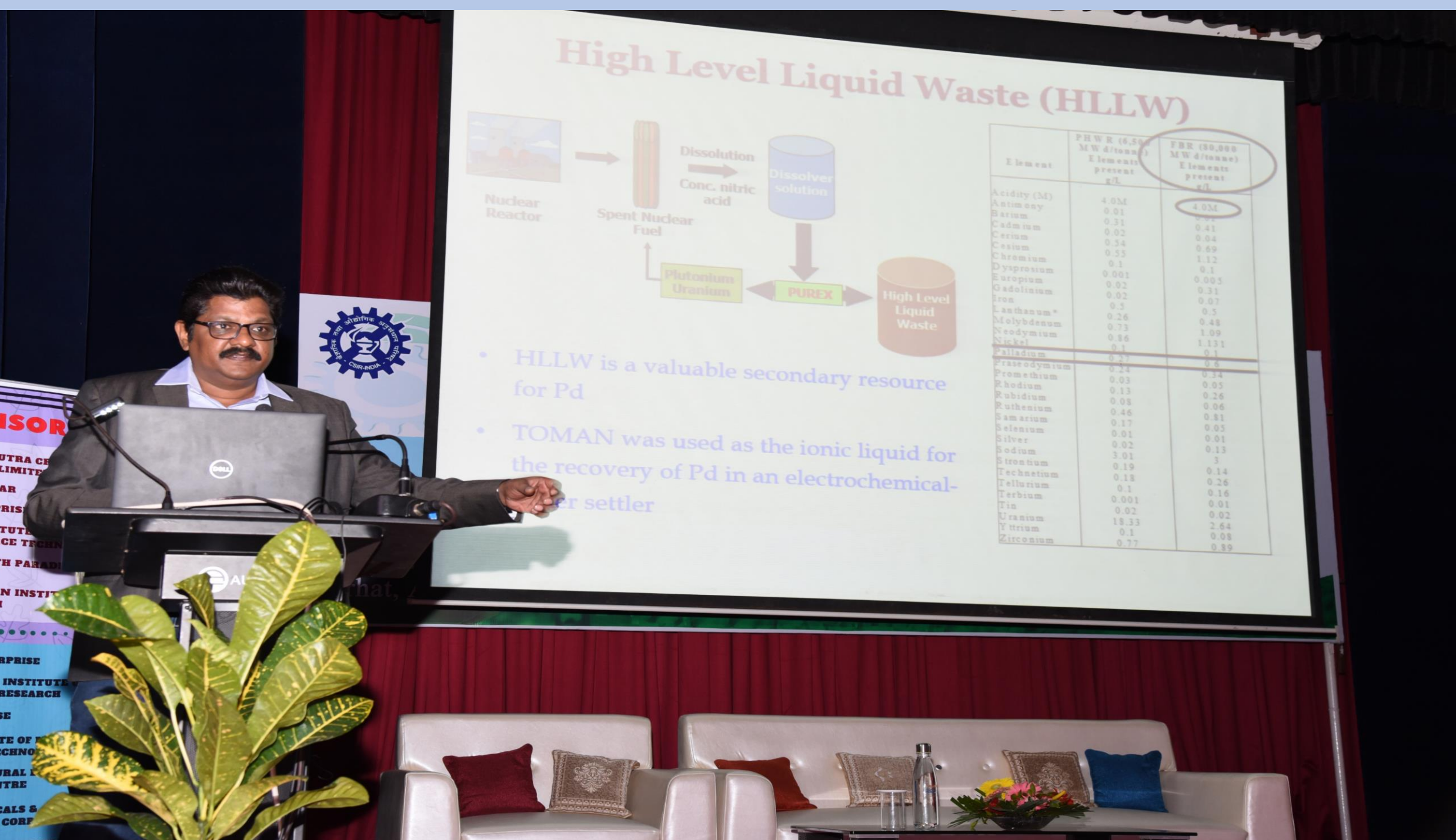
Prof. C. N. Murthy, The M. S. University of Baroda has talked about the membrane technology for water purification, Incorporation of multiwalled carbon nanotubes has increased the performance of membrane.



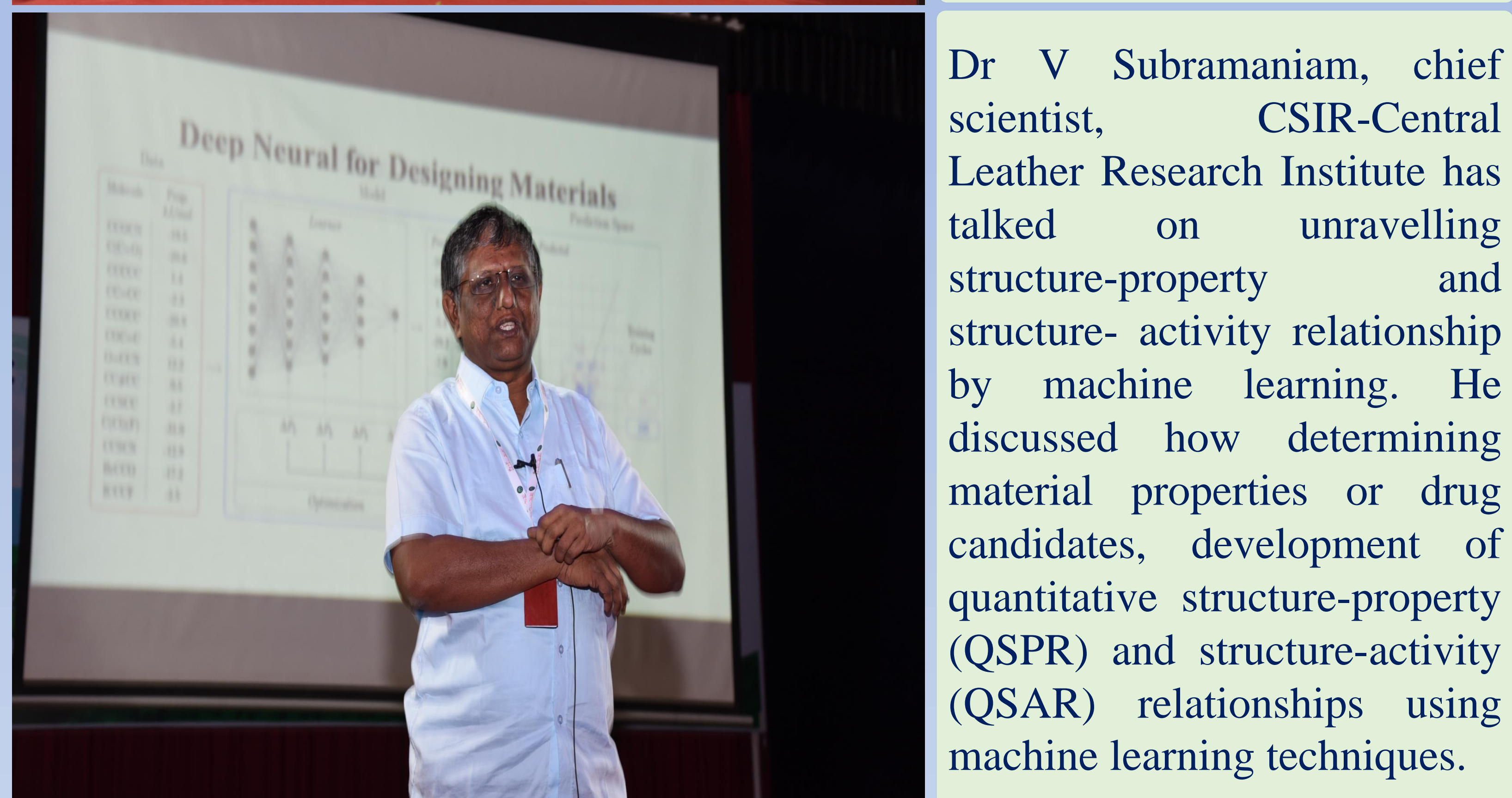
Dr Suryanarayana, retired Chief Scientist, CSIR-IICT discussed about the human waste like pisces and urine can be utilized effectively using modified eco-sanitation toilets.



Dr Mayuri Chabukdhara, Cotton University enlightened on different case studies of integrated approach for quality assessment of heavy metals and fluoride contamination in groundwater.



Dr Kali Sanjay, CSIR-IIMT Bhubaneswar lecture talked about processing of fly ash, scraps, over and high level liquid wastes etc.



Dr V Subramaniam, chief scientist, CSIR-Central Leather Research Institute has talked on unravelling structure-property and structure- activity relationship by machine learning. He discussed how determining material properties or drug candidates, development of quantitative structure-property (QSPR) and structure-activity (QSAR) relationships using machine learning techniques.



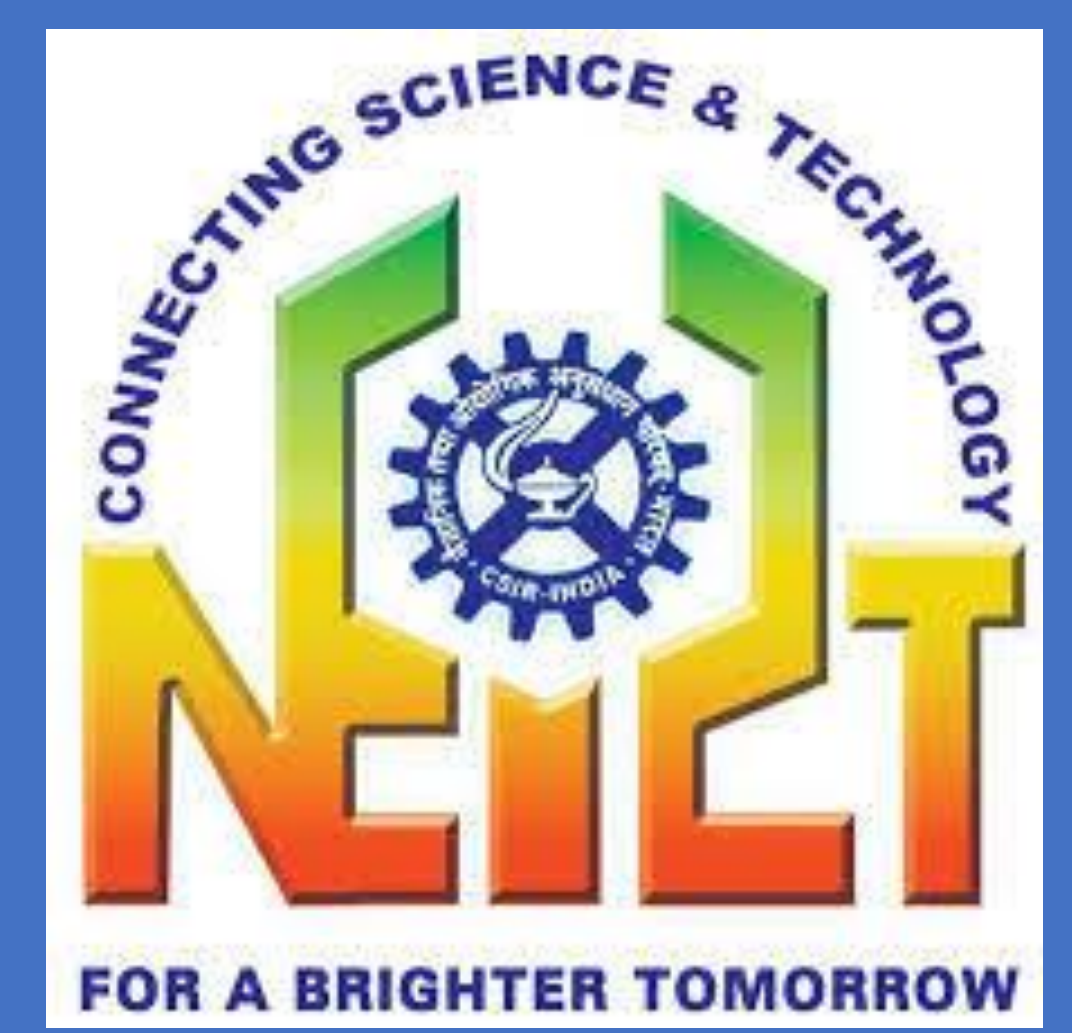
Dr (Mrs) Madhavi Sastry, Scientist, Schrodinger, D. E. Shaw India Software enlightened the audience with her thought provoking talk on nitrogen atom as a design element which is a reliable and accurate method to predict binding affinity cliffs.



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HIGHLIGHTS OF TECHNICAL AND VALEDICTORY SESSIONS

(PAGE 2 of 2)

Dr I Suryanarayana, retired Chief Scientist, CSIR-IICT chaired the 7th technical session at Iyenger Hall, CSIR-NEIST, Jorhat

Prof. Somenath Chattarjee, Sikkim Manipal Institute of Technology in his lecture discussed about the importance of crystalline silicon based solar energy cell and discussed the enhancement of electricity from solar system.



Dr. Pradosh Prasad Chakrabarti, Senior Principal Scientist, CSIR-IICT discussed about a green alternative method (supercritical carbon dioxide) for the extraction of oil and fats.

Dr Bijit Kumar Choudhury, scientist, CSIR-NEIST, Jorhat focused mainly on the seismogenic region of NE of India, namely shilling plateau and Mikir hills plateau.

Prof. Sadan Mahapatra, Tezpur University, discussed about the biomass gasification which is used for thermal and power generation.

Dr R. C Boruah, Emeritus Scientist & Outstanding Scientist of CSIR-NEIST, Jorhat chaired the 9th technical session at Iyengar Hall, CSIR-NEIST, Jorhat.



Sukanya Borthakur, research scholar, CSIR-NEIST talked on the fabrication of a novel nanocomposite, $WO_3@g-C_3N_4$ which is used as a photocatalyst for the degradation of water soluble organic pollutants.

Dr Gokul Baishya, Senior Scientist, CSIR-NEIST, delivered his lecture on synthesis of Quinoxalin2(1H)-ones under metal-photocatalyst- and light free conditions.



Felicitation programme for retiring colleague, **Er. S C Kalita**, Chief Scientist, ESTD held during the conference.



Dr G Narahari Sastry, Director, CSIR-NEIST, Jorhat delivering his address in the valedictory function of the conference in presence of **Dr V S Ravishankar**, Director, NID, Jorhat.

Hit-and-Miss of Day 1 & Day 2 Programme



POSTER PRESENTATION



Dr (Mrs) Madhavi Sastry inaugurating one stall



CULTURAL PROGRAMME



EDITORIAL TEAM OF ESTEC-2020 BULLETIN