

DEPARTMENT OF CHEMISTRY
AMBEDKAR COLLEGE, FATIKROY, UNAKOTI, TRIPURA
A BRIEF REPORT ON NATIONAL SEMINAR HELD ON 24TH JANUARY, 2022

TITLE:- “APPLICATION OF NON-MATERIALS FOR ENVIRONMENTAL REMEDIATION- A FOCUS ON RECENT DEVELOPMENT”

Organised By:-

Department of Chemistry in collaboration with IQAC, Ambedkar College.

President of the Webinar:-

Dr. Subrata Sharma, Hon'ble Principal I/C, Ambedkar College, Fatikroy

Chief Patron:-

Shri N.C.Sharma, Hon'ble Director, Department of Higher Education, Govt. of Tripura

Convener:-

Dr. Manish Nandi, Assistant Professor, Dept. of Mathematics, A.C, Fatikroy

Joint Convener:-

Dr. Chandan Debnath, Assistant Professor, Dept. of Physics, A.C, Fatikroy

Organising Secretary:-

Sri Sanjib Choudhuri, Associate Professor, Dept. of Chemistry, A.C, Fatikroy.

Total Registered Participants:- 165 Nos.



The poster for the National Webinar is titled "NATIONAL WEBINAR ON 'Application of Nano-materials for Environmental Remediation - a focus on Recent Development'". It is jointly organized by the Department of Chemistry and IQAC, Ambedkar College. The Chief Patron is Shri N. C. Sharma, TCS, SSG Director, Higher Education, Govt. of Tripura. The event is scheduled for 24-01-2022 at 12 Noon. The Google Meet link is <https://meet.google.com/xap-doih-qxo> and the registration form link is <https://forms.gle/HaC5nirbstMfaZc66>. The Organizing Committee includes: President: Dr. Subrata Sharma, Principal In-Charge, Ambedkar College, Fatikroy, Tripura; Organizing Secretary: Sri Sanjib Choudhuri, Associate Professor, Department of Chemistry; Convener: Dr. Manish Nandi, Assistant Professor, Department of Mathematics; Joint Convener: Dr. Chandan Debnath, Assistant Professor, Dept. of Physics & Convener, IQAC.

Brief Report:- On 24th June, 2022, The Department of Chemistry in collaboration with the IQAC, Ambedkar College, Fatikroy had organised a National Seminar on “Application of Non-Materials for Environmental Remediation- a focus on Recent Development” at 12 Noon. The Topic was selected keeping in mind the up growing popularity of Nano-Materials in almost every field including Environmental Remediation.

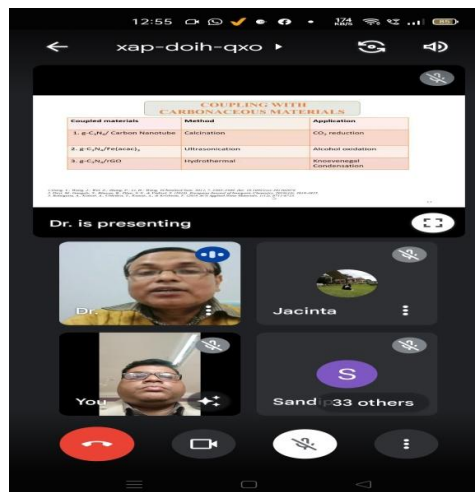
In keeping the tradition of our culture and heritage, the webinar started at 12.05 AM, with the formation of Virtual Dias followed by the lightning of the virtual of the lamp by **Dr. Subrata Sharma, Hon'ble Principal** Sir followed by a time needed multi-lingual song, 'We Shall Over Come' with a hope to boost the participants to make attentive.

Sri Sanjib Choudhuri, Organizing Secretary for this webinar delivered the Welcome Address.

With nice introduction of the eminent resource persons one by one by the host Smt. Jacinta Darlong, Asst. Professor in English, A.C, Fatikroy, the 2nd session of discussion on the topic was started.

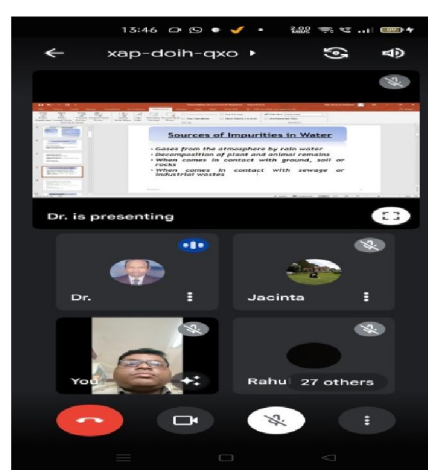
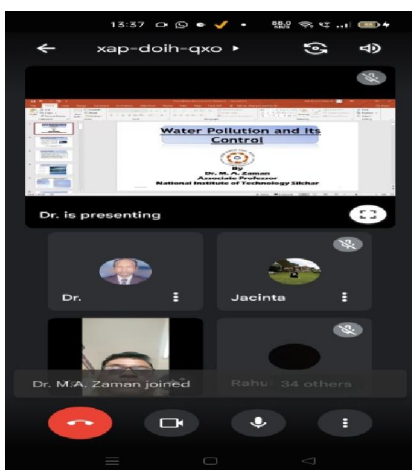
At the outset, our first Eminent & Distinguished Resource Person, **Dr. Siddhartha Shankar Dhar, Associate Professor, Department of Chemistry, NIT, Assam** presented his discussion on **“The Recent Research Works on the Application of Nano-Materials for Environmental Remediation”**. On his discussion he mainly focused on:-

Chemical Exfoliation, Thermal Exfoliation, Liquid Exfoliation, Modifications to improve efficiency, optoelectronic properties, doping in constructing heterojunctions, coupling with Carbonaceous Materials, Fabrication of Nanostructured NIO/WO₃ with graphite Carbon Nitride for visible light driven photocatalytic hydroxylation of benzene and metronidazole degradation, Trans Esterification of Soybean Oil, Synergic Effect of Metal Complex and dual Doped Graphite Carbon Nitride for Superior photo-catalytic Hydrogen Evolution etc.



Our second Eminent Resource Person **Dr. M.A Zaman, Associate Professor, Dept. of Chemistry, NIT, Silchar, Assam** discussed on, **“Water Pollution and Application of Nano-Materials to minimize it”**. He mainly focused on:-

Sources of Water, Sources of Surface Water, Characteristics of Water and Waste Water, Impurities in Water and its Sources, Hardness of water and its causes, Chemical Oxygen Demand(COD), Experimental Determination of COD, Advantages & Disadvantages of COD Test, Biochemical Oxygen Demand(BOD) & its Determination, Wastewater Treatment Unit Operations and processes, Treatment of Water for Domestic Purpose, Adsorption Process, Nano adsorbents and type of Nano Materials used in Nano Adsorbants, Low Cost Water Filter using Corncobs etc.



The webinar ended by Dr. Subrata Sharma, Hon'ble Principal I/C, Ambedkar College and the President of Today's Seminar with nice and excellent sum-up Presidential Address covering and highlighting the topics discussed by our Resource Persons and thanking all the dignitaries and participants.

