

"Recent Advances in Biocatalysts for Biomass Derived Renewable Chemicals"

нірзі-ці ICAR

15.12.2023

15, December 2023 – 4, January 2024

Inauguration of CAFT 2023



Release of CAFT practical manual by the delegates

Group photo with the CAFT trainees



15.12.2023

Day 1





Theory lecture by Dr.T.Kalaiselvi

Registration by the CAFT trainees



Day 2 16.12.2023



Theory lecture on "Production of ethanol from lignocellulosic biomass-Process flow and challenges" by Dr. Rajeev K Sukumaran

Day 2 16.12.2023





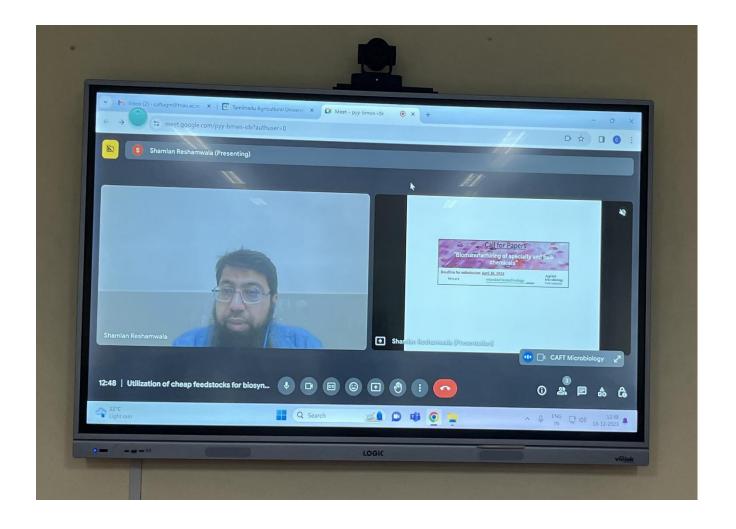




Theory lecture on "Membrane-assisted separation process for biochemical from biomass" by Dr. Rajeev K Sukumaran



Theory lecture on "Biocatalysts – Overview and microbial processes for fuels and chemicals" by Dr. U. Sivakumar



Theory lecture on "Utilization of cheap feedstocks for biosynthesis of transportation fuels and fine chemicals"

by Dr. Shamlan M.S. Reshamwala



19.12.2023



Theory lecture on "Enzymatic pretreatment of Lignocellulosic biomass for effective delignification" by Dr. M. Iniyakumar

19.12.2023

Day 5



Theory lecture on "Cassava biorefinery: Production of biochemical from Sago processing wastewater (SWW)"

by Dr. U. Sivakumar





Theory lecture on "Biocatalysis for biorefineries & biovalorization: a green approach for sustainable development"

by Dr. M. Jerold



Theory lecture on "Microbial production of Lovastatin" by Dr. S. Naganandhini



21.12.2023



Theory lecture on "Large scale biorefinery plant for the sequential production of bio-diesel, bioethanol, bio-hydrogen and bio-methane using tannery solid waste, molasses and pressmud-design and operational experience at Ranipet" by Dr. P. Shanmugam





Theory lecture on "Energy budgeting for lignocellulosic biomass-derived bio-fuels and green chemicals"

by Dr. P. Subramanian



Theory lecture on "Microbial simultaneous saccharification and fermentation and consolidated bioprocessing for bio-ethanol production" by Dr. R. Anandham



22.12.2023



Industrial visit to Sakthi sugars

Day 9 23.12.2023













Day 12 26.12.2023



Theory lecture on "Microbial production of bacterial cellulose for food and agricultural application" by Dr. U. Sivakumar



Practical session by CAFT trainees





27.12.2023

Theory lecture on "Genome Engineering for renewable chemicals from lignocellulosic biomass" by Dr. Syed Shams Yazdani

27.12.2023



Theory lecture on "Biomass to Carbo-health products" by Dr. RS Prakasham





Visit to Speed breeding facility, TNAU, Coimbatore





Visit to Centre for Agricultural Nanotechnology, TNAU, Coimbatore



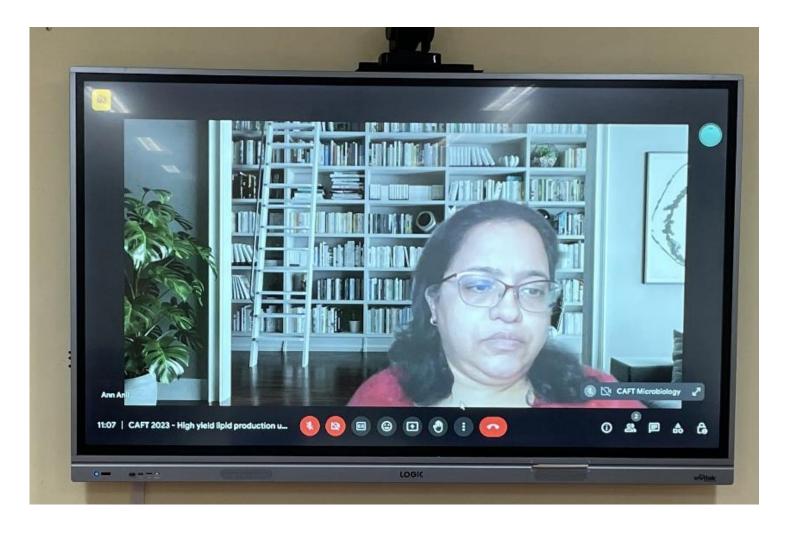
Visit to water soluble fertilizer production facility, TNAU, Coimbatore



Visit to Insect museum, TNAU, Coimbatore



Theory lecture on "Biomass to carbo-health products – A case study" by Dr. RS Prakasham



Theory lecture on "High-yield lipid production using lignocellulosic biomass" by Dr. Annamma A Odaneth



Practical session by CAFT trainees



Theory lecture on "Fuel cel electric vehicles – Research challenges and Opportunities" by Dr. Karthikeyan Palaniswamy



Theory lecture on "Production of methane biofuels from anaerobic digester" by Dr. S. Karthikeyan

Day 19 2.1.2024



Theory lecture on "Algal biorefinery: A sustainable solution for biodiesel and bioproducts production" by Dr. D.Ramesh





Practical session by CAFT trainees







Theory lecture on "Speciality and aromatic green chemicals from lignocellulosic biomass" by Dr. N.O.Gopal



Theory lecture on "Enzymatic process of oligosaccharide production" by Dr. U. Sivakumar



Theory lecture on "Bioplastics production" by Dr. V.Gomathi

3.1.2024



Theory lecture on "Nanoformulation of enzymes for renewable chemicals production" by Dr. S. Haripriya





Practical session by CAFT trainees

Feedback by CAFT trainees









Certificate distribution to CAFT trainees













Certificate distribution to CAFT trainees









