

Event Details: Guest Lecture

Topic: "Agri Waste Management and its Utilization"

Speaker Name: Dr. Neeta Raj Sharma

Speaker Designation: Senior Dean, Head of School & Professor; School Bioengineering & Biosciences, Lovely Professional University

Event Date: October 18th

Event Time: 6:30 PM IST


Platform: Zoom

The image is a screenshot of a Zoom meeting window. The main content is a presentation slide with a dark blue background and orange text. The slide title is "Agri-Waste Management & Its Utilization". Below the title, there is a small logo of the school. The presenter's name, "Neeta Raj Sharma", is displayed in red. Below that, the text reads "SCHOOL OF BIOENGINEERING & BIOSCIENCES" and "Lovely Professional University". At the bottom right of the slide, the website "WWW.LPU.IN" is visible. The Zoom interface shows a top bar with participant names: Tetiana Todoshchuk, Neeta Sharma, LPU Global, Вікторія Мельник, Чичирко Ольга б111, and Марія Люльчак. The Windows taskbar at the bottom shows the time as 16:11 on 18.10.2023, with a NIFTY index of -0.71%.

Zoom Meeting | You are viewing Neeta Sharma's screen | View Options

Tetiana Todolichuk | Neeta Sharma | LPU Global | Виктория Мельник | Чичирко Ольга б111 | Мария Люльчак

Problem Statement



- ❑ Methane
- ❑ Carbon Monoxide (CO)
- ❑ Volatile organic compound (VOC)
- ❑ Carcinogenic polycyclic aromatic hydrocarbons
- ❑ Clouds of ash and smoke

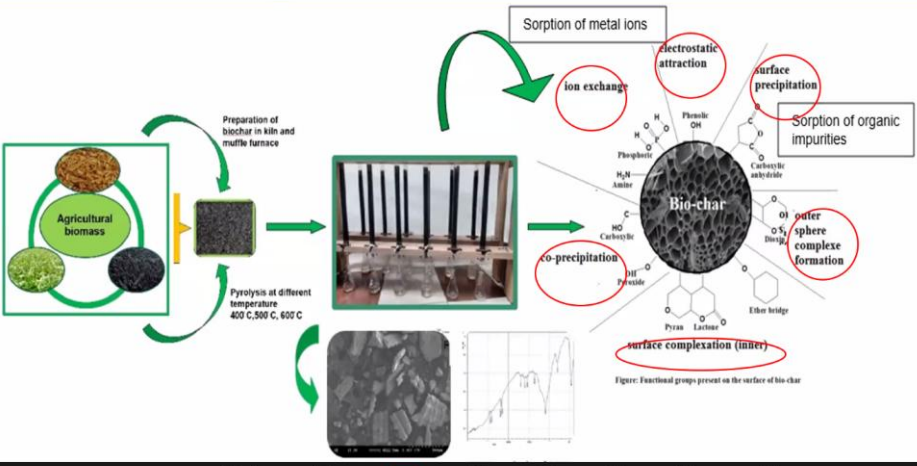
Participants: 42 | Chat | Share Screen | Record | Reactions | Apps | Whiteboards | Notes | Leave

NIFTY -0.71% | 16:12 18.10.2023

Zoom Meeting | You are viewing Neeta Sharma's screen | View Options

Tetiana Todolichuk | Neeta Sharma | LPU Global | Виктория Мельник | Чичирко Ольга б111 | Titova Larisa

Mechanism of adsorption of contaminants in wastewater on biochar



Preparation of biochar in kiln and muffle furnace

Pyrolysis at different temperature 400 C, 500 C, 600 C

Bio-char

Functional groups on the surface of bio-char: Phenolic OH, Carboxylic acid, Ether bridge, Pyran, Lactone, Hydroxyl, Carbonyl, Aldehyde, Amine, Phosphate, Nitro, Sulfide, Sulfonate, Carboxylic acid, Ether bridge, Pyran, Lactone.

Adsorption Mechanisms:

- Sorption of metal ions
- ion exchange
- Electrostatic attraction
- surface precipitation
- Sorption of organic impurities
- outer sphere complex formation
- surface complexation (inner)
- co-precipitation

Figure: Functional groups present on the surface of bio-char

Participants: 45 | Chat | Share Screen | Record | Reactions | Apps | Whiteboards | Notes | Leave

11°C Mostly cloudy | 16:30 18.10.2023