Seminar on Waste to Wealth : Plastic Waste and its Relevance

The concept of "Waste to Wealth" involves transforming waste materials into valuable resources, contributing to environmental sustainability and economic development. Plastic waste, in particular, presents both challenges and opportunities in the context of waste management and the transition to a circular economy.

Resource Recovery: Plastic waste can be recycled and transformed into new products, reducing the need for virgin materials. Recycling plastics contributes to resource conservation and minimizes the environmental impact associated with extracting and processing raw materials.

Economic Opportunities: Recycling and reusing plastic waste create economic opportunities. It generates employment in waste collection, sorting, recycling facilities, and the manufacturing of recycled plastic products. This contributes to local economies and promotes entrepreneurship.

Reduction of Environmental Pollution: Improperly disposed plastic waste often ends up in landfills, water bodies, and natural environments, causing pollution and harming ecosystems. By converting plastic waste into useful products or raw materials, we can mitigate environmental pollution and reduce the strain on natural resources.

Innovation and Technology Development: Dealing with plastic waste encourages innovation in waste management technologies and recycling processes. Researchers and innovators continuously explore new methods, such as advanced sorting techniques, chemical recycling, and biodegradable alternatives, fostering technological advancements.

Circular Economy Promotion: Plastic waste management aligns with the principles of a circular economy, where materials are reused, recycled, or repurposed instead of being discarded after single use. This shift towards a circular model aims to minimize waste generation and maximize resource efficiency.

Reduced Carbon Footprint: Recycling plastic waste consumes less energy compared to producing new plastics from raw materials. This leads to a reduced carbon footprint and lower greenhouse gas emissions associated with plastic production.

Consumer Awareness and Behavior Change: Managing plastic waste involves educating the public about responsible consumption, waste segregation, and recycling practices. Encouraging consumers to reduce, reuse, and recycle plastic products contributes to minimizing waste generation.

Policy and Regulatory Interventions: Governments and regulatory bodies play a crucial role by implementing policies, regulations, and incentives that promote the collection, recycling, and sustainable management of plastic waste. These measures can encourage businesses and industries to adopt environmentally friendly practices.

Global Impact: The management of plastic waste is a global concern. Collaboration among nations, international organizations, and industries is essential to address the challenges posed by plastic pollution and to create a collective approach towards waste reduction and resource recovery.

Brief Introduction of the Speaker :

Dr. Biswajit Ruj has 25 years of research experience and significantly contributed in the field of Environmental Sciences. He has developed process for removal of excess iron, arsenic & fluoride from groundwater, plastic waste disposal & energy recovery through pyrolysis & plasma pyrolysis route. He did research on groundwater pollution, flyash utilization, arsenic sludge disposal system and many other aspects of environmental sciences.

Dr. Ruj received many prestigious awards. To site a few Raman Research Fellowship Award by CSIR, Ministry of Science & Technology, Govt. of India, CSIR Technology Award-2017 under Innovation category for the work “Development of Community Level Iron Removal Plant & Their Implementation in Rural Areas to Supply Iron Free Drinking water”, Scientist of the Year Award-2015 by National Environmental Science Academy, Environment Excellence Award 2017, Best Paper Awards in the year 2007, 2013 and 2014 awarded by the different National and International conference committee. He has published/presented more than 70 research papers in reputed National and International journals/Conferences, filed 13 nos. patent/copyright and delivered invited lectures. He is also editorial board member of different reputed journals, Expert Committee Member of Ministry of New & Renewable Energy, Govt. of India in Biofuel Sector. He has handled 15 nos. highly challenging and societal environmental science related research projects funded by different sponsoring agency viz: Ministry of Drinking Water& Sanitation, PCRA, Ministry of Petroleum, Department of Environment, Govt. of West Bengal, Flyash Mission-DST, Pollution Control Board, DST-Govt. of West Bengal, CSIR, New Delhi etc. He has also handled 2 international projects and delivered lectures in abroad: Poland, Czech Republic, Canada, Italy and USA.

Dr. B. C. Roy Engineering College

Department of Civil Engineering

Office Notice **31.07.2023**

All the students of 2nd and 3rdyear are hereby informed that aOne Day Seminar is going to be organized on Wednesday (2nd August, 2023) at the Civil Engineering Seminar Hall. The topic for the Seminar will be "Waste to Wealth:Plastic Waste and its Relevance". The Eminent speaker for the seminar will be Dr. Biswajit Ruj, Chief Scientist & Head, Skill & Innovation Promotion GroupCSIR-CMERI. All the students of 2nd and 3rd year are instructed to attend the seminar mandatorily. Certificate will be issued to all the participants.

Sanjay Sengupta
31/07/2023

Seminar Co-Ordinators

Amit Kotal

MD. Hamjala Alam

HoD/CE

H.O.D
CIVIL ENGG. DEPT.
Dr. B. C. ROY ENGINEERING COLLEGE
DURGAPUR

DR. B. C. ROY ENGINEERING COLLEGE ★ Durgapur

ONE DAY SEMINAR

ON

"Waste to Wealth : Plastic Waste and its Relevance "

Organized by

Department of Civil Engineering
In Association with
Institute Industry Partnership Cell (IIPC)
Dr. B. C. Roy Engineering College, Durgapur

Resource Person

Dr. BISWAJIT RUJ

Chief Scientist &

Head, Skill & Innovation Promotion Group

CSIR-CMERI

02/08/2023 (Wednesday)

Venue: Seminar Hall,
Department of Civil Engineering

Coordinators: MD. HAMJALA ALAM (8101552649)
MR. AMIT KOTAL (9693748571)

Link for registration: https://forms.gle/vf3cEQW5isLi1PL27

Certificates will be issued to the participants

Dr. B.C Roy Engineering College

Department of Civil Engineering

Title of the Event: Seminar on plastic waste and its relevance

Event Coordinator(s): Md. Hamjala Alam & Amit Kotal

Co-Host of the Event (if any)

Date: 2/08/23 **Location:** Seminar hall Civil Dept. **Time:** 3:00 Pm

Attendance Sheet

Sr. No	Roll Number	Signature	Sr No	Roll Number	Signature
1	12001322003	Abhishek Ghosh			
2	12001322012	Aditya Madhukar			
3	12001322001	Akash Ganguly.			
4	12001322013	Chinmay Tetri			
5	153	Soumadeep Dey			
6	12001322010	Utsab Mitra			
7	12001322002	Nabagyati Haldar			
8	12001322004	Pralay Kanti Dan			
9	12001322031	Ananya Ghosh			
10	12001322032	Anindya Chatterjee			
11	12001322017	Sudipta Ghosh.			
12	12001322018	Manas Saha.			
13	12001322022	Anirban Kar.			
14	12001322024	Debdeep Baseri			
15	12001322027	Dipika Sen			
16	12001322029	Bhairab Maji			
17	12001322035	Sandip Pal			
18	12001322036	Sayan Pathak.			
19.	12001322037	Tirtha Pratim Datta			
20	12001322016	Joydeep Mondal.			
21	12001322045	Suman ghosh			
22	12001322034	Rahul Pandit			
23	12001322033	Sneha Karmakar			
24	12001321035	Muskan Nisha			
25	12001322049	Vineet Kushwaha			
26	12001321030	shubham sourav			
27	12001322043	Alok			
28	12001321028	Riyan Sircar			
29	12001322048	Aditya Kumar			
30	12001321031	Anand Raj			
31	12001321023	Kaushik Mahata			
32	12001322025	Angshuman Gorai			
33	12001321077	Ayush Anand			

H. Alam 02/8/2023 9/8/23

Signature of Coordinators

Sanjay Sengupta 09/08/2023

Signature of Head of the Department

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DURGAPUR

DR. B. C. ROY ENGINEERING COLLEGE * Durgapur

Dr. B.C Roy Engineering College

Department of Civil Engineering

Title of the Event: SEMINAR ON PLASTIC WASTE & ITS RELEVANCE

Event Coordinator(s): MD. HAMJALA ALAM & MR. AMIT KOTAL

Co-Host of the Event (if any)

Date: 02/08/2023 **Location:** SEMINAR HALL CIVIL ENGG. DEPT **Time:** 3:00 PM

Attendance Sheet

Sr. No	Roll Number	Signature	Sr No	Roll Number	Signature
34	12001321006	Mamun Rahaman			
35	12001321001	Fotiur Rahaman			
36	12001322005	Shovan Ghosh			
37	12001321026	Balarem Dey			
38	12001321024	Aditya Shekhar			
39	12001322014	Akash Rajak			
40		Ranajit Ruhidas.			
41	12001322006	Ayhish Kumar			
42	12001322008	Abhimanyu Kumar Ravi			

H. Alam 2/08/2023 AK 9/8/23
Signature of Coordinators

Sanjay Sengupta 09/08/2023
Signature of Head of the Department

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