

A Two Day National Conference on Science and Technology: Rural Development Technical Session I (Plant Sciences)

Activity Report of Department of Botany

A National conference on ‘Science and Technology: Rural Development’ was organized by Surendranath College, Kolkata on 20th and 21st January, 2020 in association with The Indian Science Congress Association, Kolkata.

This conference was marked by numerous distinguished personalities from various fields of science and technology. The participants of the conference were enlightened by the knowledge imparted by these eminent speakers.

The Botany Department of Surendranath College also had their invited speakers to deliver their lectures at this conference.

Number of Participants: 350

Programme Schedule of Department of Botany:

	TIME & SESSION	AUDITORIUM
DAY 1 20.01.2020	02:15 -04:15 PM TECHNICAL SESSION - I	Plant Sciences (Classical and Applied) <ul style="list-style-type: none">• Symposium Lecture• Invited Lecture• Oral Presentation

Invited speakers:

Chaired by: Professor Jai Prakash Keshri & Professor Kashinath Bhattacharya

- Dr. Debabrata Maity, Assistant Professor, Department of Botany, University of Calcutta: Role of taxonomy to uncover biodiversity
- Dr. Supatra Sen, Associate Professor, Department of Botany, Asutosh College: Towards Zero Hunger: Abiotic Stress and Crop Productivity
- Dr. Samudra Prasad Banik, Department of Microbiology, Maulana Azad College: Trehalose mediated stabilization of cellobiase aggregates – A cross-linking independent approach to improve cellulolytic enzyme efficiency
- Dr. Partha Karak, Assistant Professor, Department of Botany, City College: Airborne spore allergens, air pollutants and socio-economic status as risk factors for childhood allergic diseases in West Bengal, India.

After the completion of the deliverance of the lectures by the invited speakers, the session followed with the oral presentations by all the participants from different institutions who had taken part in this conference, chaired by the invited speakers.

Oral Presentations:

Chaired by: Professor Jai Prakash Keshri & Professor Kashinath Bhattacharya

- Arghya Ghosh and Bhaskar Paul: MICROPROPAGATION OF *Curcuma caesia* Roxb
- Dr. Amit Saha: EXPLOITATION OF MEDICINAL PLANTS
- Dr. Anamika Basu: ETHNOPHARMACOLOGY OF ANTICANCER DRUGS IN RURAL BENGAL - AN IN-SILICO STUDY
- Bikash Jana: DIVERSITY OF ALPINE SEDGES AND CLIMATE CHANGE
- Debarati Das and Asok K Biswas: INFLUENCE OF SELENATE ON GROWTH AND ANTIOXIDANT DEFENSE SYSTEM IN RICE (*Oryza sativa* L.) SEEDLINGS
- Rajendra Yonzon: SOME MAJOR THREATS FOR THE PLANT DIVERSITY OF DARJEELING AND SIKKIM HIMALAYAN REGIONS OF INDIA
- Satabdi Ghosh, Simren Saha and Amrita Dutta: COMPARING THE OXALATE OXIDASE ENZYME ACTIVITY IN MONOCOT PLANTS
- Dwaipayan Sinha: CHIR PINE: A PLANT OF ETHNOBOTANICAL AND MEDICINAL IMPORTANCE
- Dr. Joydeep Acharya: HERBAL REMEDIES AGAINST URINARY AILMENTS AS REVEALED FROM ETHNOMEDICINAL STUDIES UNDERTAKEN IN BANKURA DISTRICT, WEST BENGAL
- Tanmay Rudra and Dwaipayan Sinha: URBANISATION AND COMMERCIALIZATION: A THREAT TO BIODIVERSITY IN THE COASTAL AREA
- Subhojit Ojha and Biswajit Dey: ANTIOXIDANT PROPERTY ALONG WITH QUALITATIVE PHYTOCHEMICAL ANALYSIS OF *Erigeron* sp. FLOWERS

Poster Session: The faculties from the Botany Department of Surendranath College also participated in the poster presentation in this technical session with the students. The faculties who participated in poster presentation are:

Dr. Sonali Ray

Dr. Baishali Pandit

Mr. Kousik Ghosh

Dr. Jayanta Sikdar

Dr. Suranjana Sarkar

Dr. Dipasree Roychowdhury

Dr. Amit Saha

Dr. Nilofer Khatoon

Photographs:

<https://drive.google.com/drive/folders/1eglhUWTgyVSvGW19HU6Dnsa7f0HOSKKh>

Marine Pollution: A Great Concern for the Society

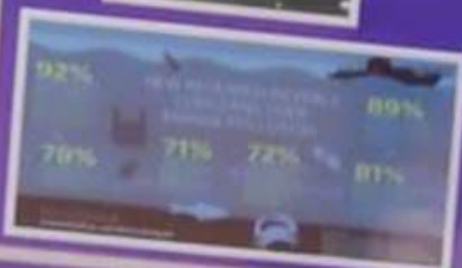
Anrita Guha¹, Debasmita Ghatak¹, Prema Das¹, Rishita Chakraborty¹,
Rumi Kundu¹, Dr. Amit Saha^{2*}

¹ U.G. Students, Botany(H), Sem 3, Dept. of Botany, ^{2*} Assistant Professor in Botany
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INTRODUCTION



Marine pollution refers to the contamination or presence of pollutants in oceans and seas. The word 'marine' comes from the Latin word for 'sea' and it is related to similar words, such as 'mariner'. Ocean pollution is becoming ever more of a problem in the present day.



CAUSES

80% of the marine pollution is responsible for the land and rest of the 20% is responsible for the air pollution.

Industrial waste water and chemicals are the main cause of marine pollution. Some harmful products in water bodies.



Sewage



Plastic, Litter, and human waste.



Oil spillage

An oil spill is the release of liquid petroleum hydrocarbon into the environment.



Agricultural run-off

Agricultural run-off is water from farm fields due to irrigation, rain or melting snow that flows over the earth that can absorb into the ground.

Plastic pollution

Marine plastic pollution in which marine species, plastic debris which causes severe injuries and deaths.



Small particles

The tiny plastic beads in exfoliating and other small particles polluting the ocean.



EFFECTS OF MARINE POLLUTION

1. Oxygen depletion



2. Higher acidity



3. Choking marine life



4. Spoiling bird's feathers

5. Blocking out the sunlight



6. Dangers to human health

Human, sea animals and water sports slowly get become endangered by swimming in a polluted sea.



Control measures for marine pollution

1. Ensuring no debris is released into the ocean



2. Campaign

3. Volunteer at an oil spill site.



4. Volunteer at a beach area cleanup or organize one yourself.



Conclusion

Marine pollution is a serious threat and it is causing many marine species to die. There are several ways that we can help marine, except nothing to solve the problem of marine pollution. We should take some steps to reduce the amount of plastic waste, stop using disposable plastic products, stop using swimming products containing plastic beads.

Acknowledgement

Principal, Surendranath College, Kolkata
HOD, Department of Botany,
Surendranath College,
Dr. Anrita Guha, Assistant Professor
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Air Pollution: A Great Concern for the Society

Topic: Air Pollution
Prepared by: [Name]
Class: [Class]
Date: [Date]

CAUSES

- 1. **Industrial Emissions**: Factories release large amounts of smoke and gases into the atmosphere.
- 2. **Vehicle Emissions**: Cars, buses, and trucks emit exhaust fumes containing harmful pollutants.
- 3. **Burning of Fossil Fuels**: Combustion of coal, oil, and natural gas releases carbon dioxide and other greenhouse gases.
- 4. **Agricultural Activities**: The use of pesticides and fertilizers can contribute to air pollution.
- 5. **Domestic Activities**: Burning of waste, cooking with solid fuels, and the use of kerosene lamps can also pollute the air.

Effects of Air Pollution

- 1. **Respiratory Problems**: Air pollution can cause asthma, bronchitis, and other lung diseases.
- 2. **Acid Rain**: Pollutants in the air can combine with water to form acid rain, which is harmful to the environment.
- 3. **Global Warming**: Greenhouse gases trap heat in the atmosphere, leading to a rise in global temperatures.
- 4. **Damage to Buildings**: Acid rain can corrode and damage buildings and monuments.
- 5. **Health Problems**: Air pollution can also cause various health problems, including heart disease and cancer.







