



R.M.D. ENGINEERING COLLEGE

NATIONAL SERVICE SCHEME (NSS)

Elimination of Single-use Plastics – 05.04.2021



NSS Unit of RMDEC organized an awareness program on “**ELIMINATION OF SINGLE USE PLASTICS**” on 5th April 2021 at 3.00 pm to 4.00 pm through Zoom Platform to the NSS Volunteers and First year Students. More than 150 participants both Teaching Faculty Members and Students have participated and benefited from the program.

Single-use plastics, often also referred to as disposable plastics, are commonly used for plastic packaging and include items intended to be used only once before they are thrown away or recycled. These include, among other items, grocery bags, food packaging, bottles, straws, containers, cups and cutlery. The objective of this program is to give awareness among student community about the hazards of single-use plastics and protecting marine habitats and water bodies from plastic pollution.

Our NSS Volunteer Ms. Lekkala Likhitha, CSE-B was compering the program. Volunteer Ms. Vaishnavi, CSE-D have welcomed the gathering. Dr. M. Maria Susai Manuel, HOD S&H delivered the felicitation speech. Dr. M. Suresh, NSS Programme Officer introduced the Chief Guest.

Dr. Ananda Kumar, Associate Professor, Department of Chemistry, Anna University, Chennai who is the Chief guest of the Program. He gave awareness about the single use of plastics and he described the molecular structures of plastics. He explained the need of bio plastics. He also presented his research results on polymers. He motivated the students for Bio-composites research.

Finally, Volunteer Ms. Pranitha, ECE-C delivered the vote of thanks.

BROCHURE:

R.M.D ENGINEERING COLLEGE
 (An Autonomous Institution)
 (Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai)
 All Five UG Programs Accredited by NBA for 3 Years & Institution Accredited by NAAC)
 R.S.M Nagar, Kavaraipettai – 601 206, Gummidipoondi Taluk, Tiruvallur District.

NATIONAL SERVICE SCHEME
 Organizes
 An Awareness Programme on
"ELIMINATION OF SINGLE-USE PLASTICS"
 on 5th April 2021 @ 3:00 PM to 4:00 PM

Dr. Ananda Kumar
 Associate Professor,
 Department of Chemistry,
 Anna University, Chennai

Zoom Link:
<https://zoom.us/j/99510197498?pwd=WTRkbUVLaGp6KytEVmUxQWMyRVJlVQTO9>

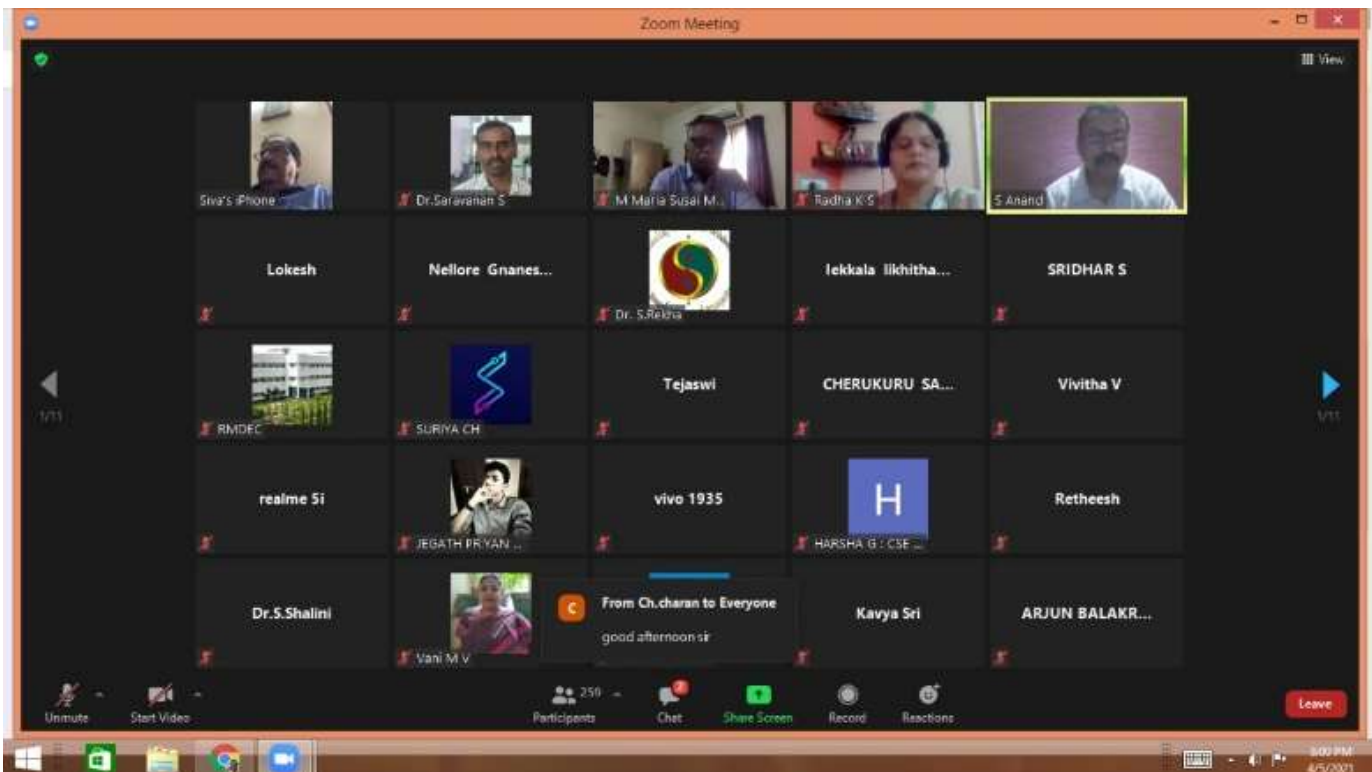
Organizing Committee

SMT. ANANJULA MURUGARATHNAM CHAIRPERSON	SHRI. R. S. MURUGARATHNAM CHAIRMAN	SHRI. R. JOTHIMAIIDU DIRECTOR
SHRI. R. M. KISHORE VICE-CHAIRMAN	SHRI. YALANANCHI PRADEEP SECRETARY	Dr. DURGADEVI PRADEEP VICE-CHAIRPERSON
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Dr. K. SIVARAM DEAN RESEARCH	Dr. K. K. THYAGHARAJAM DEAN ACADEMIC	Dr. N. HARJA SUSAJ MANUEL PROFESSOR & HEAD / SQA

Follow us: RMD SNH

Dr. M. SURESH, NSS Programme Officer

Screenshots of the Program





This window is viewing S Anand's screen

View Options

Dr. Saravanan | seshu v | S Anand | Dr. J. Raksha | Roshini:CSSS dept | Siva's iPhone

Recording

Bio-based Plastics:



What are Bio-Plastics?

- Plastic products made by transforming bio-based material, either exclusively or in combination with non-bio-based (petrochemical based) material.
- A bio-based material is one in which a significant portion of the carbon is derived from a renewable resources,
 - e.g.: corn, soybeans, grasses, or other plant mass

Biodegradable Plastics:

- Plastic (either bio-based or petrochemical based) products that are designed to breakdown for complete assimilation by microorganisms in a natural infrastructure such as



Zoom Meeting | Participants: 285 | Chat | Share Screen | Record | Reactions | Leave

Windows taskbar: 8:38 PM 4/5/2021

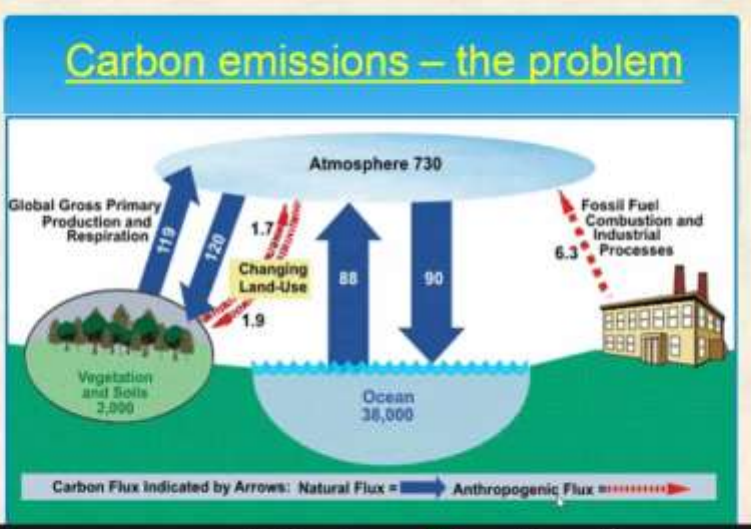
This window is viewing S Anand's screen

View Options

M. Maria Suzal... | Sai Srinivas Laki... | Iekkala Ikhitha... | SRIDHAR S | Nellore Gnanes...

Recording

Carbon emissions – the problem



Atmosphere 730



Global Gross Primary Production and Respiration 119

Changing Land-Use 1.7

Vegetation and Soils 2,000

Ocean 38,000

Fossil Fuel Combustion and Industrial Processes 6.3

Carbon Flux indicated by Arrows: Natural Flux =  Anthropogenic Flux = 

Zoom Meeting | Participants: 279 | Chat | Share Screen | Record | Reactions | Leave

Windows taskbar: 8:27 PM 4/5/2021

Zoom Meeting

M Maria Susal... Sai Srinivas Laki... Jekkala Ikkitha... SRIDHAR S Nellore Gnanes...

Recording

Global warming –climate change

The Earth's Greenhouse Effect

SUN

About 30% of incoming solar energy is reflected by the surface and the atmosphere.

SPACE

ATMOSPHERE

SURFACE

Only a small amount of the heat energy emitted from the surface passes through the atmosphere directly to space. Most is absorbed by greenhouse gas molecules and contributes to the energy radiated back down to warm the surface and lower atmosphere. Increasing the concentrations of greenhouse gases increases the warming of the surface and slows loss of energy to space.

About half the solar energy absorbed at the surface evaporates water, adding the most important greenhouse gas to the atmosphere. When this water condenses in the atmosphere, it releases the energy that powers storms and produces rain and snow.

The surface cools by radiating heat energy upward. This warms the surface. It prevents the amount of heat energy that is radiated upward.

Windows Taskbar: 3:28 PM 4/15/2021

Zoom Meeting

Dr. Saravanan... Sundarandhi... S Anand Boomika S Kamalleshwari V PRASANTH B...

Recording

Non-Carbon Renewable Fuels

WIND **SOLAR** **HYDRO** **GEOTHERMAL**

BIO CARBON RENEWABLE FUELS

BIOMASS **BIOGAS** **WASTE**

<http://epa.gov/greenpower/what/la/renewableenergy.htm>

Windows Taskbar: 3:41 PM 4/15/2021

Zoom Meeting

Ballela manideep M Maria Susal... Iekkala Ikkhitha... Nellore Gnanes... SURYA CH Tejaswi

Motivation for Bio-composites Research

Bio-composite materials will emerge as an important engineering material as the technology evolves through strong collaboration by several facets of the entire production

Farmers & Processors Plastics & Composite Manufacturers Commodity Groups University & Industry Researchers

April 5, 2021 89 Dept. of Manufacturing Engg.

Recording

Windows taskbar: 4:14 PM 4/5/2021

Dr. M. Suresh
NSS Programme Officer