

"CLIMATE AND ENVIRONMENTAL SUSTAINABILITY"

Webinar on June 3, 2022, 10:30 AM TO 5:30 PM

Link: <https://amityuni.live/86865789630>



Dr. Atul Chauhan
President RBEF &
Chancellor, Amity Universities

PATRON



Dr. Ashok K. Chauhan
Founder President, RBEF
(Amity Education Group)

CHIEF PATRON



Dr. Aseem Chauhan
Addl. President RBEF &
Chancellor, Amity Universities

PATRON



Prof. Dr. Balvinder Shukla
Vice Chancellor,
Amity University, AUUP Noida



Dr. W. Selvamurthy,
President ASTIF & DG ADSI,
Chancellor, Amity University, Chhattisgarh



Dr. D. K. Bandyopadhyay
Chief Advisor FPO / Chairman ALSs
Amity University, Noida



Prof. (Dr.) Tanu Jindal
Group Addl. Pro VC (R&D)
Director AIETSM, AUUP

PROGRAM CHAIR



Ms. Beate Langset
Counselor for Climate and
Environment
Norwegian Embassy, New Delhi



Prof. S. Mohan
Institute Chair Professor
Environmental and Water Resources
Engineering Division, IIT Madras
VC, Puducherry Technical University



Prof. M. Krishnan
VC, Central University of
Tamil Nadu



Professor Rup Lal
Ex. Head, Zoology, D.U.
The Energy and Resources
Institute, New Delhi



Dr. Rakesh Kumar
Program Officer
Former Director
CSIR-NEERI, Now at CSIR
Head Quarters, New Delhi



Dr. Sumit Sharma
Program Officer
United Nations Environment
Programme (UNEP)



Dr. S.K. Goyal
Sr. Principal Scientist &
Head, CSIR, NEERI



Dr. Hariharan Chandrashekar
Indian ecological economist
The World of Water Action Forum



Dr. Ramesh Kumar M.R.
Chief Scientist (Retired)
Head, Physical Oceanography
Department, NIO



Dr. Jayashree Dubey
Assistant Professor
Indian Institute of Forest
Management, Bhopal, MP



Prof. Dr. Panuganti CS Devara
Director and Head
ACOAST and ACESH
Amity University Haryana

Faculty Coordinators
Dr. Abhishek Chauhan
Dr. Renu Dhupper
Dr. Maya Kumari
Dr. Randeep Singh
Dr. Deepak Kumar

AMITY GLOBAL WARMING CLIMATE CHANGE CLUSTER, AMITY UNIVERSITIES

NATURAL RESOURCES ENVIRONMENT SCIENCES DOMAIN
AMITY INSTITUTE OF ENVIRONMENTAL TOXICOLOGY, SAFETY AND MANAGEMENT

AMITY GLOBAL WARMING CLIMATE CHANGE CLUSTER

WEBINAR ON

“CLIMATE AND ENVIRONMENTAL SUSTAINABILITY”

June 3, 2022, 10:30 AM TO 5:30 PM

Time	Event
June 03, 2022	Forenoon session Time: 10:30am – 01:30pm
10:30 -10:35am	Welcome to delegates
10:35-10:40am	Introduction to the theme by MC
10:40 – 10:50am	Amity Environmental Initiatives by Prof. Tanu Jindal Group Addl. Pro VC (R&D) and Director, AIETSM, ACARS, AIOAS, AIWTM, Amity University, AUUP
10:50 -11:00am	Address by Prof. (Dr.) Balvinder Shukla Vice Chancellor, Amity University Uttar Pradesh (AUUP)
11:00– 11:10am	Address by Dr. D.K. Bandyopadhyay Chief Advisor FPO, Chairman, Amity Law School
11:10 – 11:30am	Theme address by Dr. Rakesh Kumar Former Director, CSIR-NEERI, Now at CSIR, Head Quarters, New Delhi “ Sustainability through Green Technologies ”
11:30 -12:00pm	Special address by Dr. Rup Lal Former Professor & Head, Zoology, University of Delhi “ Microbiome Science for better Management of Human Health Environment and Society ”
12:00– 12:30pm	Special address by Prof. S. Mohan as Chief Guest Institute Chair Professor of Environmental and Water Resources Engineering, Indian Institute of Technology Madras & Vice Chancellor Puducherry Technological University
12:50 – 01:10pm	Special address by Dr. Hariharan Chandrashekhar Indian ecological economist The World of Water (WoW) Action Forum
01:10 – 01:30 pm	AUH, Environmental Initiatives by Prof. Dr. Panuganti CS Devara Director and Head, Amity Centre for Ocean-Atmospheric Science and Technology (ACOAST) & Amity Centre for Environmental Science and Health (ACESH) “ Frontiers in Environmental Health and Climate Change ”
01:30 – 02:00pm	Lunch

Joining link for webinar: <https://amityuni.live/86865789630>

NATURAL RESOURCES ENVIRONMENT SCIENCES DOMAIN
AMITY INSTITUTE OF ENVIRONMENTAL TOXICOLOGY, SAFETY AND MANAGEMENT
AMITY INSTITUTE OF ENVIRONMENTAL SCIENCES



AMITY
UNIVERSITY



AMITY GLOBAL WARMING CLIMATE CHANGE CLUSTER

WEBINAR ON

"CLIMATE AND ENVIRONMENTAL SUSTAINABILITY"

June 3, 2022, 10:30 AM TO 5:30 PM

June 03, 2022	Afternoon session	Time : 02:00 – 05:30pm
02: 00 – 2:10pm	Welcome to delegates	
02:10 – 02:20pm	Introduction to theme by Prof. Tanu Jindal Group Addl. Pro VC (R&D) and Director, AIETSM, ACARS, AIOAS, AIWTM, Amity University, AUUP	
02:20 -02:40pm	Special address by Ms. Beate Langset Counsellor for Climate and Environment, Norwegian Embassy in New Delhi. "Circular Economy and Sustainable Development"	
02:40- 03:10pm	Special address by Dr. M.R. Ramesh Kumar Ex. Chief Scientist & Head, NIO "Climate Change Impact on the Community & EWS and Communication"	
03:10 -03:40pm	Special address by Dr. S.K. Goyal Sr. Principal Scientist & Head, CSIR, NEERI "Biomass to Boiler – A Positive Step towards the Environmental Sustainability"	
03:40 – 04:10pm	Special address by Dr. Sumit Sharma Program Officer, United Nations Environment Programme (UNEP) "Triple Planetary Crisis: Rethinking actions"	
04:10 -04:40pm	Special address by Dr. Jayashree Dubey Assistant Professor, Indian Institute of Forest Management "Climate Change: We are the problem, we have the solution"	
04:40 - 05:10pm	Special address by Prof. M. Krishnan Vice Chancellor, Central University of Tamil Nadu "Impact of Tourism on Fragile Environment"	
05:10 – 05:20pm	Way forward by Dr. W. Selvamurthy President - Amity Science, Technology & Innovation Foundation (ASTIF), DG, ADSI, Chancellor, Amity University Chhattisgarh	
05:20 – 05:30pm	Few thoughts by Dr. Ashok K. Chauhan Hon'ble Founder President, Amity Education Group*	
05:30pm	Vote of thanks	

Subject to Availability

Joining link for webinar: <https://amityuni.live/86865789630>

NATURAL RESOURCES ENVIRONMENT SCIENCES DOMAIN
AMITY INSTITUTE OF ENVIRONMENTAL TOXICOLOGY, SAFETY AND MANAGEMENT
AMITY INSTITUTE OF ENVIRONMENTAL SCIENCES
AMITY UNIVERSITY, UTTAR PRADESH, SECTOR-125, NOIDA, Contact: 0120-4392604 | <http://amity.edu/aletsam/> | Email ID: tjindal@amity.edu

INTRODUCTION-

Amity Institute of Environmental Toxicology, Safety and Management, Amity University Noida, organised a webinar to celebrate World Environment Day on 03rd June 2022 Friday.

The primary objective of the webinar is to provide an opportunity for academicians, researchers, practitioners, policy makers and research scholars to undergo and share discuss ideas and practices across a range of empirical, theoretical, and applied approaches to mitigation of environmental sustainability.

This webinar aims to provide a premier interdisciplinary platform for researchers, practitioners, and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered, and solutions adopted in the fields of climate and sustainable development. The training will discuss the unprecedented challenges of environmental systems that can be resolved with mitigation models.

**SUSTAINABLE SYSTEMS TO COMBAT
GLOBAL WARMING AND CLIMATE CHANGE**

Dr. Ashok K. Chauhan
Founder President,
Ritnand Balved Education
Foundation (RBEF)
Amity Education Group

Dr. Ashok K. Chauhan, a renowned educationist, industrialist and philanthropist, is the Founder President of Amity Education Group, India's leading Global Education Group comprising of 5 Universities, 150 institutions, 6 Global Campuses, 17 Schools and Play Schools with 95,000 students and 3500 faculty, researchers and scientists. This unmatched growth of Amity is a cumination of globally benchmarked hi-tech campuses, a dedicated faculty comprising thought leaders and practicing professionals, innovative teaching methodology and an unparalleled corporate interactions. Grounded to his dreams, he has always believed in the policy of leading an eye on vision and one eye on implementation. It is therefore no surprise that Dr. Ashok K. Chauhan innovative leadership strategies have transformed the AKC Group and Ritnand Balved Education Foundation into a sustainable, value driven conglomerate set to transform the education landscape of the country. He is also the Chairman of MC Group of Companies, a leading conglomerate with diverse business interests in plastics, pharmaceuticals, finance, construction and IT. Today Dr. Ashok K. Chauhan vision has translated into the internationally benchmark campuses that have come to epitomise the Amity Education Group.



Prof. (Dr.) Tanu Jindal

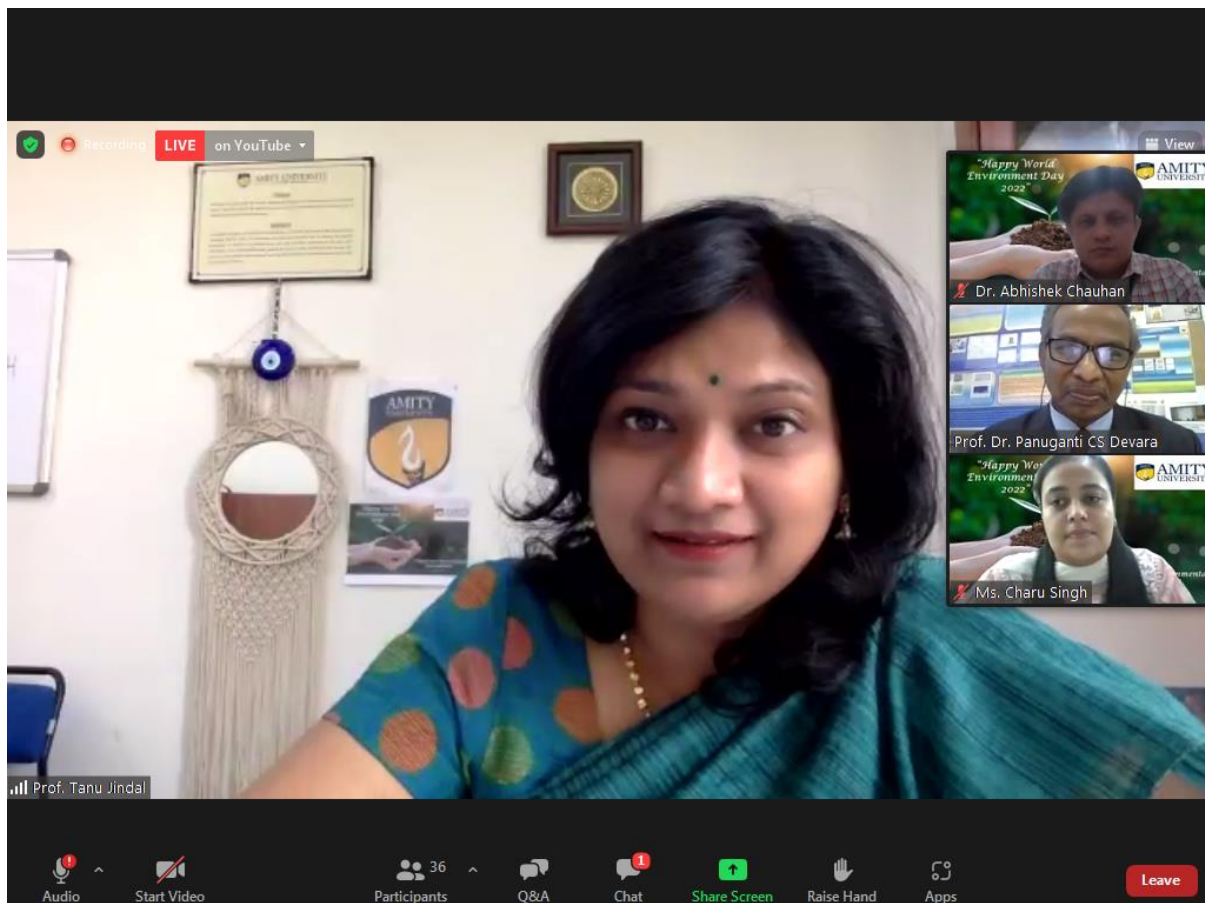
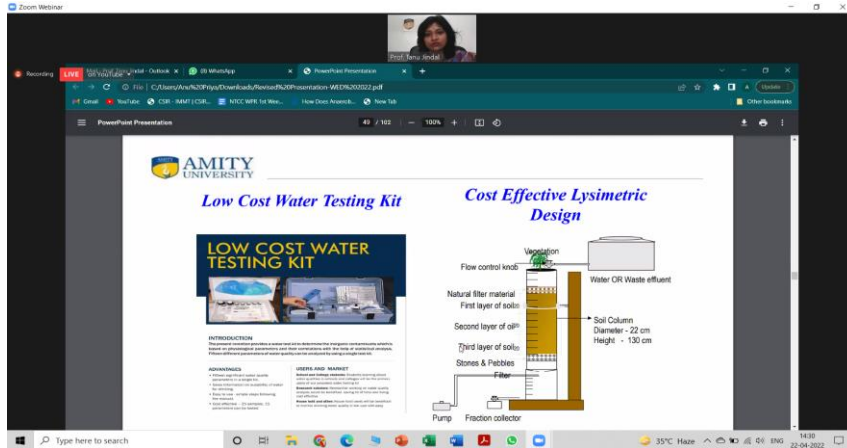
Group Additional Pro Vice Chancellor (R&D),

**Director, Amity Institute of Environmental Toxicology,
Safety and Management,**

**Amity Centre Of Antarctica Research and Studies, Amity
University**

Prof Jindal briefed on the Amity education group, Amity Global Research Hub campus, and courses offered by Amity University under Natural Resources and Environmental Sciences domain. She also discussed various projects and patents done by Amity. She discussed on low-cost water testing kit. That kit can be used in small laboratory project work. 15 major parameters can be measured by this testing kit. More than 1372 patents have been filed and some have been transferred to the industry.

During the evening session, she briefed on sustainable systems, objectives of sustainability, the importance of sustainability. Also discussed the techniques to combat the climate change with sustainability.



Zoom Webinar

You are viewing Prof. Tanu Jindal's screen

View Options

Prof. Tanu Jindal, KM Richa Pahariya, Dr. Abhishek Chauhan, Ms. Charu Singh, Amity University, Dr. DK Bandyopadhyay

AMITY UNIVERSITY

AMITY SCIENCE TECHNOLOGY AND INNOVATION FOUNDATION

Amity University with a vision to promote Science & Technology has established a foundation in 2008 "Amity Science Technology and Innovation Foundation" (ASTIF). The focus of the foundation is to provide multi-dimensional thrust on Research & Development.

Over 20000 research publications, research papers, articles, books/chapters in journals such as Cell, Lancet, ACS, Oxford Journals, Nature Publishing group, RSC Advances, Taylor & Francis, Springer, Elsevier, Wiley Publishing.

Amity faculty have developed over 2000 case studies which have been referred by leading institutions such as Harvard, MIT, Oxford, Stanford, etc.

University has also made concerted efforts to strengthen Research & Innovation activities by the Amity Innovation Incubator supported by DST, DST-Technology Enabling Center (TEC), NRDC-Amity Innovation Facilitation Centre, Amity Center for Entrepreneurship Development.

- Alternative and Renewable Energy
- Agriculture Biotechnology
- Drug Discovery & Development
- Environment Cluster

Who can see your messages? Recording On

To: Hosts and panelists

Type message here...

Chat

Dr. Rahul Verma to Hosts and panelists

good morning, dr rahul verma, assistant professor dayanand college of law, kanpur

Unmute, Start Video, Participants (39), Q&A, Chat, Share Screen, Raise Hand, Apps, Leave

Type here to search

AQI 355, 10:39, 03-06-2022

Zoom Webinar

You are viewing Prof. Tanu Jindal's screen

View Options

KM Richa Pahariya, Dr. DK Bandyopadhyay, Ms. Charu Singh, Prof. Tanu Jindal, Prof. Dr. Ranuganti CS...

AMITY UNIVERSITY

DOMAIN: NATURAL RESOURCES AND ENVIRONMENTAL SCIENCES

- Amity Institute of Environmental Toxicology, Safety and Management
- Amity Institute of Environmental Sciences
- Amity Institute of Natural Resources and Sustainable Development
- Amity Institute of Geo-Informatics and Remote-Sensing
- Amity Institute of Global Warming and Ecological Studies
- Amity Institute of Forestry and Wildlife
- Amity Institute of Green Technology Research & Studies
- Amity Institute of Water Technology and Management
- Amity Centre for Antarctica Research and Studies
- Amity Centre for Environmental Health and Science

Recording, LIVE on YouTube

Unmute, Start Video, Participants (45), Q&A, Chat, Share Screen, Raise Hand, Apps, Leave

Type here to search

36°C Haze, 10:46, 03-06-2022

Recording LIVE on YouTube | You are viewing Prof. Tanu Jindal's screen | View Options

Home Tools Revised PPT Work... Final PPT World E... | Sign In

Sustainable Systems

- *Sustainability encourages businesses to frame decisions in terms of environmental, social, and human impact for the long-term, rather than on short-term gains such as next quarter's earnings report.
- *It influences them to consider more factors than simply the immediate profit or loss involved.
- *These companies can achieve their sustainability needs by cutting emissions, lowering their energy usage, sourcing products from fair-trade organizations, and ensuring their physical waste is disposed of properly and with as small a carbon footprint as possible.

Three pillars of Sustainability

Dr. M.R. Ramesh Kumar

Prof. Tanu Jindal

Audio | Start Video | Participants 49 | Q&A 2 | Chat | Share Screen | Raise Hand | Apps | Leave

Recording LIVE on YouTube | You are viewing Prof. Tanu Jindal's screen | View Options

Home Tools Revised PPT Work... Final PPT World E... | Sign In

5 P's of Sustainability

Dr. M.R. Ramesh Kumar

Prof. Tanu Jindal

Audio | Start Video | Participants 49 | Q&A 2 | Chat | Share Screen | Raise Hand | Apps | Leave



Dr. D.K. Bandyopadhyay

Chief Advisor FPO, Chairman, Amity Law School

Amity University

Definitions of sustainability vary across sectors, but their common theme is to change the way resources are exploited or hazards are managed so that adverse impacts downstream or for subsequent generations are reduced. Climate change is, however, seldom listed among the stressors that might influence sustainability.

Environmental sustainability is the responsibility to conserve natural resources and protect global ecosystems to support health and wellbeing, now and in the future. A major challenge for sustainability is a warming planet. Human activities that contribute to climate change are, by definition, not sustainable, as they alter the very planet we depend on for all our needs. But climate change also makes it

harder to find sustainable solutions to other problems.

Zoom Webinar

Recording LIVE on YouTube

Mb, Charu Singh



SUSTAINABLE SYSTEMS TO COMBAT GLOBAL WARMING AND CLIMATE CHANGE



Dr. D.K. Bandyopadhyay
Chief Advisor FPO,
Chairman, Amity Law
School
Amity University

Prof. D.K. Bandyopadhyay is a professor, scientific management researcher and an academic administrator of repute. Presently he is the Chief Advisor to the office of the Founder President of Amity Group of Institutions. He was second vice-chancellor of the Guru Gobind Singh Indraprastha University. His term of the Vice-Chancellor from 2008 to 2013. Prof. Bandyopadhyay was the director of the Indian Institute of Forest Management, Bhopal, from 2004 to 2008. He is a fellow of ESSEC, Paris. Prior to joining to IIFM, he was a Professor (1986- 2008), Dean and Acting director (2000–2003) at the Indian Institute of Management Lucknow.

Type here to search

36°C Haze 14:35 22-04-2022



Dr. Rakesh Kumar

**Former Director, CSIR-NEERI, CSIR, Head Quarters,
New Delhi**

He discussed the topic “Sustainability Through Green Technologies”. The objective of his presentations was the ability to identify both intangible elements of the manufacturing system, quantify the product/process in terms of its ecological impact and suggest mitigation strategies. Also discussed the green manufacturing and specific tools and relevant case studies for an engineering approach to achieve sustainability.

Recording LIVE on YouTube

You are viewing Dr. Rakesh Kumar's screen View Options

Amity University is the host now

The Foundation of Sustainable Development

Unmute Start Video

Participants 68 Q&A Chat Share Screen Raise Hand Apps

Leave

Recording LIVE on YouTube

You are viewing Dr. Rakesh Kumar's screen View Options

Talking: Dr. Rakesh Kumar

Components of Sustainability

Sustainability-activities whose environmental impact is below the level that the **self recovery capacity of the natural environment** can deal with.

Source: H. Komiya and K. Takeuchi, "Sustainability science: building a new discipline," Sustainability Science 2006, 1:1-6

Unmute Start Video

Participants 72 Q&A Chat Share Screen Raise Hand Apps

Leave



Prof. (Dr.) Rup Lal

Professor, University of Delhi

The speaker emphasized “Microbiome Science for better Management of Human Health, Environment and Society”. According to the new study, there are about one trillion species of microbes on Earth, and 99.999 per cent of them are yet to be discovered. We have neglected microbes so far, Microbes being so important and abundant, our society is not aware of the benefits and havoc they can create.


Zoom Webinar | You are viewing Dr. Rup Lal's screen | View Options

Participants: KM Richa Pahar..., Prof. Tanu Jindal, Ms. Charu Singh, Ms. Yogyata Sri..., Ms. Prangya Ra...

Gut Microbiota:

“Educates the immune system”

- Essential for the development of
 - The Gut Immunity & immunomodulation
 - Mucosa Associated immune system,
 - Immune tolerance, epithelial barrier function, motility and vascularity.
 - Homeostatic functions such as pathogen exclusion, regulation of apoptosis
 - Blood groups



Recording LIVE on YouTube

Unmute | Start Video | Participants (76) | Q&A | Chat | Share Screen | Raise Hand | Apps | Leave

Participants (76)

Panelists (19) | Attendees (57)

Search

Chat

Dr. Rahul Verma to Hosts and panelists

good morning, dr rahul verma, assistant professor dayanand college of law, kanpur

ajay kumar to Hosts and panelists

poor audibility pls

Who can see your messages? Recording On

To: Hosts and panelists

Type message here...

39°C Haze | 11:58 03-06-2022

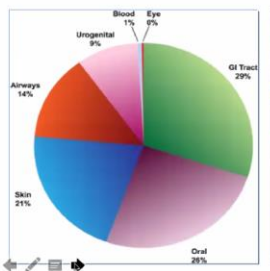
Zoom Webinar | You are viewing Dr. Rup Lal's screen | View Options

Participants: KM Richa Pahar..., Prof. Tanu Jindal, Ms. Charu Singh, Ms. Yogyata Sri..., Ms. Prangya Ra...



HUMAN MICROBIOME

•When you are born, your genome is **100% (20000 genes)**.

•Your own genome at the end you have **90%** of the genome from microbes (nearly 200,000 genes).



Body Site	Percentage
GI Tract	29%
Oral	28%
Skin	21%
Airways	14%
Urogenital	9%
Blood	1%
Eye	9%

Recording LIVE on YouTube

Unmute | Start Video | Participants (76) | Q&A | Chat | Share Screen | Raise Hand | Apps | Leave

Participants (76)

Panelists (19) | Attendees (57)

Search

Chat

Dr. Rahul Verma to Hosts and panelists

good morning, dr rahul verma, assistant professor dayanand college of law, kanpur

ajay kumar to Hosts and panelists

poor audibility pls

Who can see your messages? Recording On

To: Hosts and panelists

Type message here...

39°C Haze | 11:57 03-06-2022



Dr. Hariharan Chandrashekar

Indian ecological economist

He discussed the topic “The Net Zero Water Loop, Healing Your Land While You DO Well”. There are three net-zero water goals, energy savings, water savings and net-zero compute. Ecological and economic solutions, enhancement of energy production, water-energy nexus and comprehensive audit for energy, water, waste and air management are also discussed under the objectives of the green infrastructure plan for 2025. Challenges of green infrastructure are also covered. It includes Mitigating water problems, reducing water heating costs, optimising power generation, brings efficiency to all electrical equipment.

Zoom Webinar

You are viewing Dr Hari Haran Chandra's screen

View Options

Dr Hari Haran Chandra | KM Richa Pahar... | Prof. Tanu Jindal | Ms. Charu Singh | Ms. Yogyata Sri... | Prof. Dr. Panuga...

Recording LIVE on YouTube

Shallow(10m) Aquifer Map

- High Permiability (Soil water)
- Low Permiability (Fractured Rock Formation)
- Zero Permiability (Hard Rock Formation)

Participants (70)

Panelists (18) Attendees (52)

Search

SA Sateesh Abimannan
SK satish Kumar
SK Shanu Kumar
SS Sipra Singh
SM Sivakumar Muthusamy
TS Tanuja Singh

Chat

Microbiology needs to be introduced in the curriculum for the new generation to get inspired and work in this prospect.

Dr. Abhishek Chau... to Hosts and panelists

DA Very informative lecture, thank you sir

Who can see your messages? Recording On

To: Hosts and panelists

Type message here...

Unmute Start Video Participants (70) Q&A Chat Share Screen Raise Hand Apps Leave

Type here to search

39°C Haze 12:30 03-06-2022

WhatsApp

SOLAR PV GENERATION POTENTIAL

How much as in-house generation?

1. Every 6000 units a year of power in a middle-class household is 720,000 litres of water saved at a coal-based thermal plant that feeds you power.
2. Every 4 KWp of rooftop solar saves 720,000 litres for a thermal plant.
3. Every 100 Sft is 1 KWp approx. And 1500 units a year of solar power.
4. You save on energy bills. You save water for India. Act before you are forced to by law.
5. You produce. You consume. You Prosume.

Type here to search

40°C Haze 12:47 03-06-2022



Prof. (Dr.) Panuganti CS Devara

Director and Head, Amity Centre for Ocean-Atmospheric Science and Technology (ACOAST) & Amity Centre for Environmental Science and Health (ACESH)

This session gave the highlights on the topic “Frontiers in Environmental Health and Climate Change”. World Environment Day is celebrated on 5th June every year. It emphasizes the importance of ecosystem restoration of primary and secondary air pollutants using modelling of air pollution in all possible ways and highlights the need for sustainability in harmony with nature. He discussed MAIA-AMOD equipment, installed at AUH, Manesar, Gurugram, and ongoing consortium research projects like Round the clock monitoring and analysis of primary and secondary air pollutants using modelling of air pollution and networking (MAPAN) with synchronous surface level meteorological parameters.

Zoom Webinar | You are viewing Prof. Dr. Panuganti CS Devara's screen | View Options

Participants: 70 (Panelists: 18, Attendees: 52)

Search: SK satish Kumar, SM Sayantika Mukherjee, SK Shanu Kumar, SS Sipra Singh, SM Sivakumar Muthusamy, TS Tanuja Singh, UM Umamah Mufti, VP Vandana Devi

Chat: any Feedback form, Prof. Tanu Jindal to Hosts and panelists: Please email your views at tjindal@amity.edu or message at 9891939388

WED 2022 Talk at AUUP - Saved to this PC - Prof. (Dr.) P.C.S. Devara

AMITY UNIVERSITY GURUGRAM

Happy WORLD Environment Day

"Only One Earth" World Environment Day 2022

FRONTIERS IN ENVIRONMENTAL HEALTH AND CLIMATE CHANGE
(On the eve of World Environment Day (WED) 2022 Celebration)

PROF. (DR.) P.C.S. DEVARA
AMITY CENTRE OF EXCELLENCE IN OCEAN-ATMOSPHERIC SCIENCE AND TECHNOLOGY (ACOAST) & ENVIRONMENTAL SCIENCE AND HEALTH (ACESH)
AMITY UNIVERSITY HARYANA (AUH), MANESAR-GURUGRAM, INDIA

Slide 1 of 14 | Accessibility Investigate | Notes | 72%

Unmute | Start Video | Participants (70) | Q&A | Chat | Share Screen | Raise Hand | Apps | Leave

Type here to search | 40°C Haze | 12:53 03-06-2022

Zoom Webinar | You are viewing Prof. Dr. Panuganti CS Devara's screen | View Options

Participants: 69 (Panelists: 18, Attendees: 51)

Search: SM Sayantika Mukherjee, SK Shanu Kumar, SS Sipra Singh, SM Sivakumar Muthusamy, TS Tanuja Singh, UM Umamah Mufti, VP Vandana Devi

Chat: any Feedback form, Prof. Tanu Jindal to Hosts and panelists: Please email your views at tjindal@amity.edu or message at 9891939388

MAIA-AMOD Equipment, installed at AUH, Manesar-Gurugram in May 2022




Citizen-Enabled Aerosol Measurements for Satellites (CEAMS), involving MAIA (Multi-Angle Imager for Aerosols Investigation) AMOD (Aerosol Mass and Optical Depth) sampler has been installed by Emory University Rollins School of Public Health, Atlanta, Georgia, USA in cooperation with IIT-D. The data from MAIA-AMOD would improve our understanding of how aerosol pollutants affecting the local air quality, visibility, and human health through the connections between AOD and fine particulate matter of PM_{2.5}.

Unmute | Start Video | Participants (69) | Q&A | Chat | Share Screen | Raise Hand | Apps | Leave

Type here to search | Polluted air | 13:00 03-06-2022



Ms. Beate Langset
Counsellor for Climate and Environment
Norwegian Embassy in New Delhi

She talked about the very emerging topic “Circular Economy and Sustainable Development for Safe Planet”. She discussed the priority areas of Norway- India 2030, Circular economy in Norway and India Norway Cooperation. Also discussed is the Norway deposit return scheme. As per the scheme returns your empty bottles and cans and get the money back. Norway generated 22,000 tonnes of plastic and 11,000 tonnes of aluminium for recycling. Also covered the initiatives taken to combat marine pollution.

LIVE on YouTube

You are viewing Ms Beate Langset's screen

View Options

Talking: Ms Beate Langset

Ocean Plastic Turned into an Opportunity in Circular Economy

Energy intensive industries, like cement manufacturing, can increase the treatment capacity for legacy waste and non-recyclable plastic waste

Co-processing replaces coal and reduce CO2 emissions





Norway

Unmute Start Video Participants 52 Q&A Chat Share Screen Raise Hand Apps Leave

Recording LIVE on YouTube

Norwegian example – recycling of EV batteries

- Opened 16 May 2022, Fredrikstad, Norway
- Cooperation:
 - Swedish battery producer
 - Norwegian recycle company
- Enables up to 95% of battery to be recovered, including plastics, copper, aluminium and black mass
- **One** old battery have enough secondary raw material for **four** new batteries

Ms Beate Langset

Dr. S.K. Goyal

Norway

Pioneering Sustainability



Dr. M.R. Ramesh Kumar

Chief Scientist (Retired) & Head, POD, NIO

He emphasized on topic “Climate change Impact on Community”. Under the presentation he mentioned India’s risks from climate as melting glaciers, agriculture, health, coast line, politics etc.

Melting glaciers means increased of flooding, erosion, mudslides, and during the wet season over north India. Serious impacts on populations relying rivers in Asia fed by melt water from the Himalayas. Agricultural impacts due to changing rainfalls and temperature patterns. Dengue, Malaria, Diarrhoea and malnutrition due to increased flooding, droughts and higher temperatures.

Zoom Webinar

You are viewing Dr. M.R. Ramesh Kumar's screen

Ms. Yogyata Sri... Dr. Abhishek Ch... Mr. Vikram Kau... Ms. Neha Bhad... Amity University Dr. Laxmi Kant...

Recording LIVE on YouTube

Convection (OLR) and LLJ (850 hPa) over IO during break and active monsoon conditions.

Swapna and Ramesh Kumar (2002)

Ramesh Kumar et al., (2005) found that the convective activity was more intense Over SHET (0° - 10° S; 80° E - 100° E) during break in monsoon conditions.

Participants (53)

Panelists (19) Attendees (34)

Search

DM Dr. Monika Chaudhary
GP Gauri Pandey
KS Kartikeya Shukla
KS KULDEEP SINGH A11231921012
KG kuldeep's Galaxy A50s
LP LOLITA PRADHAN

Chat

Dr. Jayashree Dub... to Hosts and panelists
Good after noon, facing problem in audio... fixing it
Prof. Tanu Jindal to Hosts and panelists
ok

Who can see your messages? Recording On

To: Hosts and panelists
Type message here...

Unmute Start Video Participants Q&A Chat Share Screen Raise Hand Apps Leave

Type here to search

42°C Haze 14:48 03-06-2022

LIVE on YouTube

You are viewing Dr. M.R. Ramesh Kumar's screen

File Home Insert Draw Design Transitions Animations Slide Show Record Review View Help Tell me what you want to do

Climate Change Impact on the Community

Dr. M. R. Ramesh Kumar
Chief Scientist (Retd)
National Institute of Oceanography,
Dona-Paula, 403004, Goa.
Email: kramesh@nio.org

1

2

Role of Oceans on Weather and Climate

The top 3 m of water in Ocean - mostly in tropical and subtropical regions hold as much heat as the entire atmosphere. The ocean immense heat capacity means that it takes a large amount of heat energy to change the temperature of a region of the sea.

3

Data availability over Global Oceans

Ocean temperature profiles - Yearly coverage

GLOBAL

0-100 m
0-200 m
0-300 m
0-400 m
0-500 m
0-600 m
0-800 m
0-1000 m
0-1500 m

Click to add notes

Slide 1 of 34 English (India) Accessibility: Unavailable

Notes Comments

Unmute Start Video Participants Q&A Chat Share Screen Raise Hand Apps Leave

Talking: Prof. Tanu Jindal



Dr. S.K. Goyal,

**Senior Principal Scientist & Head, CSIR-NEERI, Delhi
Zonal Centre**

He discussed on the topic “Biomass to Boiler – A positive step towards the environmental sustainability”. Open burning of solid biomass, a biggest challenge in indoor and outdoor air quality management. Some lesson had been learnt from the past as Punjab and Haryana stubble burning events. Household air quality and associated health risk. It needs a coalition of multi-disciplinary knowledge and expertise. Process optimization and use of appropriate technology need to be implemented, unit wise and industry-wise.

Zoom Webinar | You are viewing Dr. S.K. Goyal's screen | View Options

Participants (71): Panelists (19) Attendees (52)

What forms Air Quality – Air Pollution Sources & their Fate in the Region

NAAQS (24 hrly): SO_2 & NO_2 – $80 \mu\text{g}/\text{m}^3$; PM_{10} : $100 \mu\text{g}/\text{m}^3$; $\text{PM}_{2.5}$: $60 \mu\text{g}/\text{m}^3$

Zoom interface: Unmute, Start Video, Participants (71), Q&A, Chat, Share Screen, Raise Hand, Apps, Leave. System tray: 42°C Haze, 15:12, 03-06-2022.

Zoom Webinar | You are viewing Dr. S.K. Goyal's screen | View Options

Participants (71): Panelists (19) Attendees (52)

Road Map – Choice

Without B2B: Biomass → Open field burning, Cooking → Poor Air Quality

With B2B: Biomass → Boilers → Clean Air, Sustainable Energy Development, Socio-economic benefits

Choose Your Right Path: Healthy & Wealthy vs. Unwell & Polluted

Zoom interface: Unmute, Start Video, Participants (71), Q&A, Chat, Share Screen, Raise Hand, Apps, Leave. System tray: 42°C Haze, 15:12, 03-06-2022.



Dr. Sumit Sharma

Program Officer, United Nations Environment Programme

Topic illustrated in the webinar was “Triple Planetary Crisis: Rethinking Action”. Under the presentation he mentioned the major concerning aspects in today’s arena as climate change, biodiversity loss and pollution. Making Peace with Nature, the latest UNEP report, synthesizes the science on climate, biodiversity loss and pollution. It calls for actions by all parts of society to protect both people and the planet.

Zoom Webinar | You are viewing Dr. Sumit Sharma's screen | View Options

Dr. Abhishek Ch... Ms. Neha Bhad... Amity University Mr. Vikram Kau... Dr. Laxmi Kant... Ms. Prangya Ra...

Recording LIVE on YouTube

Triple Planetary Crisis: Rethinking Action

Sumit Sharma
UNEP

Participants (73) | Panelists (19) | Attendees (54)

Q Find a participant

- PD Prof. Dr. Panuganti CS Devara
- DA Dr. Abhishek Chauhan
- DL Dr. Laxmi Kant Bhardwaj
- DM Dr. M.R. Ramesh Kumar
- DS Dr. S.K. Goyal
- MV Mr. Vikram Kaushik
- MB Ms Beate Langset
- MP Ms. Prangya Rath
- MC Ms. Charu Singh
- MJ Ms. Jayati Arora
- MN Ms. Neha Bhaduria
- MY Ms. Yogyata Srivastava
- PM Prof. M. Krishnan
- PT Prof. Tanu Jindal
- R rtokas@amity.edu

Unmute Start Video Participants (73) Q&A Chat Share Screen Raise Hand Apps Leave


Type here to search | 42°C Haze | 15:25 03-06-2022

Zoom Webinar | You are viewing Dr. Sumit Sharma's screen | View Options


Dr. Abhishek Ch... Ms. Neha Bhad... Amity University Mr. Vikram Kau... Dr. Laxmi Kant... Ms. Prangya Ra...

Recording LIVE on YouTube


Triple Planetary Crisis



Climate Change



Biodiversity Loss



Pollution

Participants (73) | Panelists (19) | Attendees (54)

Q Find a participant

- PD Prof. Dr. Panuganti CS Devara
- DA Dr. Abhishek Chauhan
- DL Dr. Laxmi Kant Bhardwaj
- DM Dr. M.R. Ramesh Kumar
- DS Dr. S.K. Goyal
- MV Mr. Vikram Kaushik
- MB Ms Beate Langset
- MP Ms. Prangya Rath
- MC Ms. Charu Singh
- MJ Ms. Jayati Arora
- MN Ms. Neha Bhaduria
- MY Ms. Yogyata Srivastava
- PM Prof. M. Krishnan
- PT Prof. Tanu Jindal
- R rtokas@amity.edu

Unmute Start Video Participants (73) Q&A Chat Share Screen Raise Hand Apps Leave

Type here to search | 42°C Haze | 15:26 03-06-2022



Prof. (Dr.) Panuganti CS Devara

Director and Head, Amity Centre for Ocean-Atmospheric Science and Technology (ACOAST) & Amity Centre for Environmental Science and Health (ACESH)

He discussed the topic “Frontiers in Environmental Health and Climate Change”. During the session, he briefed on UNEPs initiatives on air pollution control, air quality action forum, air quality progress report and 25 solutions report. Discussed changing climatic patterns and linkages with air pollution. 80% of marine pollution originates on land and 79% of plastic waste is landfilled and dumped in a natural environment. Plastic is causing harm because of the low recycling rate. Also gave insights on global initiatives on controlling marine plastic litter.

Zoom Webinar | You are viewing Dr. Sumit Sharma's screen | View Options

Ms. Yogyata Sri... Ms Beate Langset Prof. M. Krishnan Dr. Jayashree D... Ms. Charu Singh

Source contributions to PM2.5 concentrations in India (2016)

Sector	Yearly (% contribution)			Winter (% contribution)			Summer (% contribution)		
	PM _{2.5}	PMSEC ^a	PMPRIM ^b	PM _{2.5}	PMSEC ^a	PMPRIM ^b	PM _{2.5}	PMSEC ^a	PMPRIM ^b
Residential	31	22	45	36	25	54	28	20	40
Industry	16	14	19	18	15	21	17	16	19
Power	7	11	1	7	11	1	7	11	1
Transport	7	11	3	10	14	3	6	8	3
Road Dust	1	0	1	1	0	2	1	0	1
Agri residue burning	8	9	8	4	4	4	7	7	7
Others*	12	14	9	13	14	10	11	14	8
Outside India	20	23	17	15	19	8	27	31	21

* Others include crematoria, refuse burning, construction, biogenic, ammonia etc.; # Secondary particulate matter has been represented as PMPRIM;

Source: Sharma et al, 2016

Participants (73) | Panelists (19) | Attendees (54)

Unmute Start Video Participants Q&A Chat Share Screen Raise Hand Apps Leave

Type here to search | 42°C Haze | 15:41 03-06-2022

Zoom Webinar | You are viewing Dr. Sumit Sharma's screen | View Options

Ms. Yogyata Sri... Ms Beate Langset Prof. M. Krishnan Dr. Jayashree D... Ms. Charu Singh

Changing climatic patterns and linkages with air pollution (SLCPs)

Global Mean Temperature Rise

Source: UNEP, *Integrated Assessment of Black Carbon and Tropospheric Ozone*, 2011

Participants (72) | Panelists (19) | Attendees (53)

Unmute Start Video Participants Q&A Chat Share Screen Raise Hand Apps Leave

Type here to search | 42°C Haze | 15:42 03-06-2022

Chat

Assistant Professor
Department of
Zoology University
College of
Science, Tumkur
University, Tumakuru
Karnataka

I am member of ESDA
THANK YOU FOR
wonderful session

Who can see your messages? Recording On

To: Hosts and panelists | Type message here...



Prof. M. Krishnan

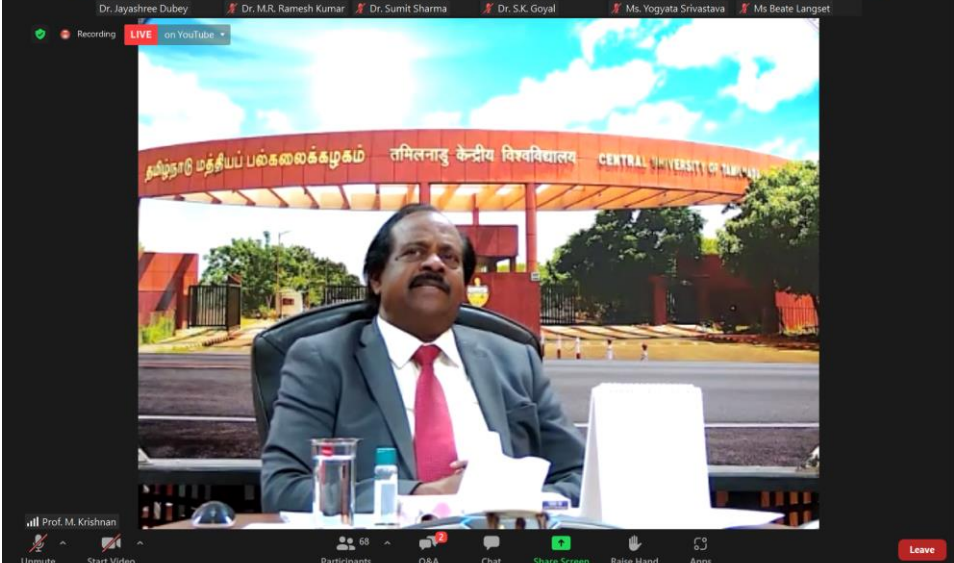
Vice Chancellor, Central University of Tamil Nadu

The crisis of sustainability is the collective effect of environmental changes with which humanity cannot live in the long term. These include ozone depletion, biodiversity loss and mass extinction, ecosystem and land degradation, drought and desertification, crises of water supply and sanitation, pollution of the land, sea and air by a wide range of persistent and destructive toxins, and climate change. All have proven to be large-scale, long-term, pervasive, resistant to piecemeal, easy or cheap solutions, and in many cases mutually interactive and reinforcing. They also combine with other human-caused problems, such as over-fishing, overpopulation and war, to undermine the living conditions, livelihoods, health and well-being of almost everyone on Earth, but particularly those of weaker human stakeholders such as the poor.

Zoom Webinar

Dr. Jayashree D... Dr. M.R. Ramesh... Dr. Sumit Sharma Dr. S.K. Goyal Ms. Yogyata Sri... Ms Beate Langset

Recording LIVE on YouTube



Chat

wariorukial@gmail.com

Dr. Jayashree Dub... to Hosts and panelists

DJ Good after noon, facing problem in audio... fixing it

Prof. Tanu Jindal to Hosts and panelists

PT ok

Jitendra Nagar to Hosts and panelists

JN Nice presentation by Dr Goyal ji

Dr. Parimala B. to Hosts and panelists

DP I am Dr Parimala B Assistant Professor Department of Zoology University College of Science, Tumkur University, Tumakuru Karnataka

I am member of ESDA THANK YOU FOR wonderful session

Who can see your messages? Recording On

To: Dr. Parimala B. and all panelists

Type message here...

Prof. M. Krishnan

Unmute Start Video

Participants 68

Q&A Chat Share Screen Raise Hand Apps

Leave

Type here to search

42°C Haze 16:15 03-06-2022



Dr. Jayashree Dubey

Assistant Professor, Indian Institute of Forest Management

She emphasized the topic “Climate Change, we are the problem, we have the solution”. Ecological footprint, measure of the demands made by a person or group of people on global natural resources such as water, land etc. We need to be intergenerational ethical. In 2015 India committed to creating additional carbon sinks of 2.5- 3 billion tonnes by 2030 by adding forest and tree cover which can absorb 29.62 billion tonnes CO₂ eq, as per the last FSI assessment of 2015.

Zoom Webinar | You are viewing Dr. Jayashree Dubey's screen | View Options

Dr. Abhishek Ch... Ms. Neha Bhad... Mr. Vikram Kau... Dr. Laxmi Kant... Ms. Prangya Ra... rtokas@amity.e...

Recording LIVE on YouTube


Amity - Climate Change 3rd June 2022.pptx - PowerPoint (Product Activation Failed)

File Home Insert Design Transitions Animations Slide Show Review View Tell me what you want to do...

Clipboard Paste Cut Copy Format Painter New Slide Section Slides Font Paragraph Drawing Arrange Quick Styles Shape Fill Shape Outline Shape Effects Find Replace Select

Climate Change

We are the problem, we have the solution



Stock Images
Dr. Jayashree Dubey
Faculty, Marketing Management
Indian Institute of Forest Management
Bhopal

Slide 1 of 10 | English (India) | 70%

Unmute Start Video | Participants 63 | Q&A | Chat | Share Screen | Raise Hand | Apps | Leave


Type here to search | 42°C Haze | 16:46 | 03-06-2022

Zoom Webinar | You are viewing Dr. Jayashree Dubey's screen | View Options

Recording LIVE on YouTube

What is to be Achieved

- ▶ One mature tree can fulfill the oxygen requirement of around 4 person
- ▶ 15 trees to absorb CO2 equivalent generated to meet our food requirement
- ▶ 730 trees per person (7 acres of forested land) to absorb our fossil fuel based consumption, transportation, electricity, fiber needs etc.
- ▶ Average no of trees per person globally is 422, Canada is 8953, Russia is 4461, US 716, UK is 47 and India is 28.
- ▶ India is 3rd largest producer of GHG (3,347) after China (11,706) and US (5,794), Which is 14.6% of the world's GHG of 48,928, while it has just two per cent of total global forest area.
- ▶ In 2015 India committed to creating additional carbon sinks of 2.5-3 billion tonnes by 2030 by adding forest and tree cover which can absorb 29.62 billion tonnes CO2eq, as per the last FSI assessment of 2015.



Unmute Start Video | Participants 63 | Q&A | Chat | Share Screen | Raise Hand | Apps | Leave

Type here to search | 42°C Haze | 17:04 | 03-06-2022



Dr. Ajit K. Nagpal

Chairman Amity PACIFIC Forum

Chairman Board of Governors, Ritnand Balved Medical Foundation

Chairman & Director General, Amity University Middle East Initiative

Dr. Ajit K. Nagpal is the Chairman of Amity PACIFIC Forum, an instrument to foster partnership with corporate and social sectors of the industry for Education, Research and Innovation through the medium of National Federations of Commerce & Industry. He talked about emissions, sustainable development in the country. He praises all the eminent speakers for their presentation and content covered during the webinar.

The image shows a Zoom meeting interface. The main video window displays Dr. A. K. Nagpal, a man with glasses wearing a light-colored checkered suit jacket, a white shirt, and a dark tie. He is speaking. The background behind him features a large image of a tree and the text "COMMUNITY UNIVERSITY".

On the left side, there are three smaller video thumbnails:

- Top: Dr. M.R. Ramesh Kumar, a man in a white shirt and tie.
- Middle: Prof. Tanu Jindal, a woman with dark hair wearing a green top.
- Bottom: Dr. M. Srinivasa Murthy, a man in a white shirt and tie.

At the bottom of the screen is a control bar with the following icons and labels from left to right:

- Audio (muted)
- Start Video (video off)
- Participants (48)
- Q&A
- Chat
- Share Screen (highlighted in green)
- Raise Hand
- Apps
- Leave (red button)

The congratulatory message was delivered by Dr W. Selvamurthy and Prof. (Dr.) Tanu Jindal.



Dr Abhishek K. Chauhan proposed a vote of thanks.

