IMPORTANT WORKSHOP ON THE THEME, "SUSTAINING WHAT SUSTAINING US - ONE OCEAN, ONE CLIMATE, ONE FUTURE - TOGETHER" ON THE OCCASION OF "WORLD OCEAN DAY 2025"
ON
MONDAY, 09 JUNE, 2025
https://amity-edu.zoom.us/webinar/register/WN_wOuSj4pdSUiM4w8d6ZfLcg

1. **Prof. (Dr.) Vivek Gupta, Ramnarain**
   Amity Mauritius

   Prof. Ramnarain welcomed the Founder President and all the esteemed speakers. The organisation of this webinar is the celebration of world ocean day and emphasized on blue economy. Oceans, covering over 70% of Earth's surface, are facing a severe threat from plastic pollution, which is harming marine life and ecosystems. This pollution has a wide range of negative impacts, from directly harming animals through entanglement and ingestion to disrupting marine food chains and ultimately affecting human well-being. The island of Mauritius is indeed surrounded by a beautiful coral reef system. Mauritius is known for its pristine beaches, crystal-clear turquoise waters, and lush green landscapes. We must secure the future by securing the ocean. He addressed “One Ocean, One Climate, and One Future”

2. Prof Tanu Jindal

Prof. Tanu Jindal welcomed all the esteemed speakers. She welcomed Honourable Founder President Dr. Ashok Chauhan, Chancellor Aseem Chauhan, and Atul Chauhan. Prof. talked about her sustainable projects, collaborations, and patents. She shared glimpses of the Antarctica projects. Several projects have been carried out with CSIR-NEERI, TERI, IIT, and other organizations. 32 sampling locations were marked in the Antarctic Ocean and highlighted about the small lab developed in the cruise of Antarctica for laboratory analysis. Some strains were found to degrade surfactants, which are present in detergents for the cleaning of the Yamina River. Save the Ocean and Save Life.


AMITY UNIVERSITY
NIOT
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AMITY MAURITIUS
ONE OCEAN, ONE CLIMATE, ONE FUTURE - TOGETHER
Indo-Mauritius Workshop
ON
"SUSTAINING WHAT SUSTAINING US"
June 9, 2025
11:00 AM TO 2:00 PM (IST)
Please join the meeting using the link below:
https://amity-edu.zoom.us/webinar/register/WN_wOuSj4pdSUiM4w8d6ZfLcg


Prof. Tanu Jindal
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

3. **Prof. Balaji Ramakrishnan**

   Director, National Institute of Ocean Technology (NIOT), Ministry of Earth Sciences (MoES), Govt. of India

   Prof Balaji discussed Ocean Economy and shared glimpses of NIOT, which vision to develop reliable indigenous technologies- harvesting of non-living and living marine organisms (Blue Economy). He talked about the Matsysa Project that is Voyage to the Deep Sea, which is designed to be utilised for deep-sea exploration of rare minerals under the Samudrayaan mission. The Varaha Deep Ocean Mission is a key component of India's broader Deep Ocean Mission (DOM), an ambitious initiative to explore and harness the vast resources of the Indian Ocean. He also discussed several other projects of Deep Ocean Mission, including Sagarpala, Dweep, etc.


Prof. Balaji Ramakrishnan
Challenges in Marine Technologies:
Fathoms of NIOT
Prof. Balaji Ramakrishnan
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Ministry of Earth Sciences (MoES)
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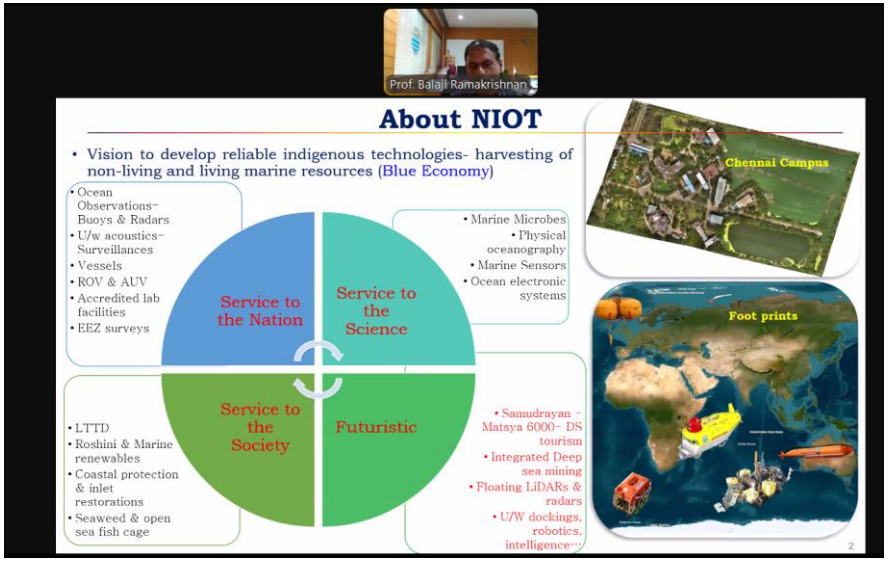
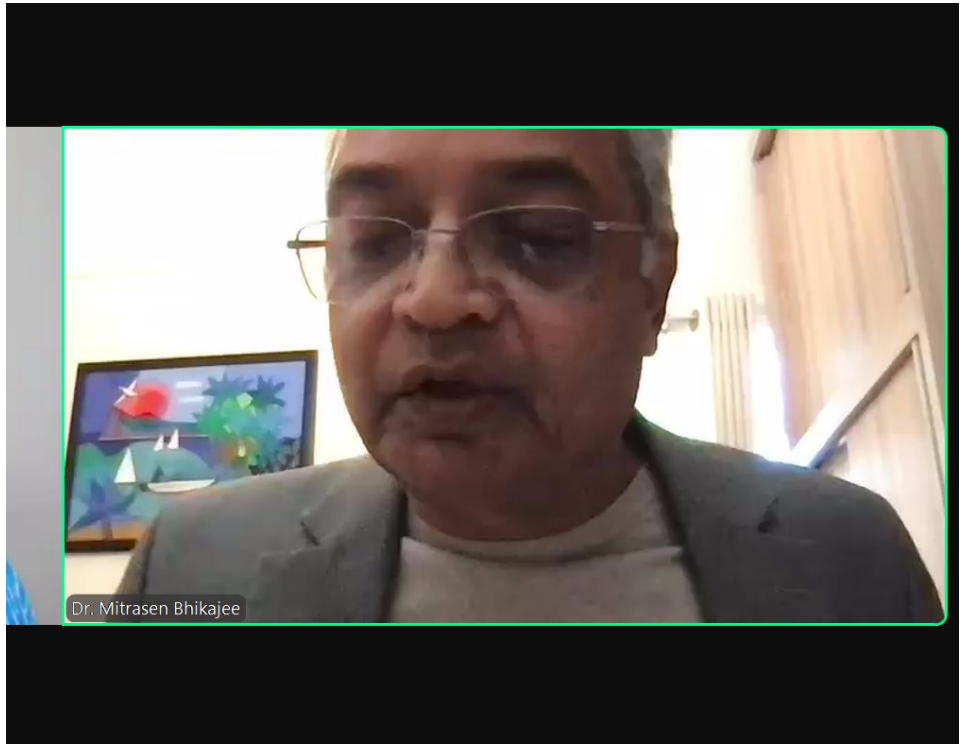

Prof. Balaji Ramakrishnan
About NIOT
• Vision to develop reliable indigenous technologies- harvesting of non-living and living marine resources (Blue Economy)
• Ocean Observations– Buoys & Radars
• U/w acoustics– Surveillances
• Vessels
• ROV & AUV
• Accredited lab facilities
• EEZ surveys
Service to the Nation
Service to the Science
Service to the Society
Futuristic
• Marine Microbes
• Physical oceanography
• Marine Sensors
• Ocean electronic systems
• LTTD
• Roshini & Marine renewables
• Coastal protection & inlet restorations
• Seaweed & open sea fish cage
• Samudrayan – Matsya 6000– DS tourism
• Integrated Deep sea mining
• Floating LiDARs & radars
• U/W dockings, robotics, intelligence…
Chennai Campus
Foot prints
2

4. **Dr. Mitrasen Bhikajee**

   Chairman, Mauritius Oceanography Institute Board

   Dr Mitrasen talked about small island states. Mauritius, a country in the Indian Ocean, is classified as a Small Island Developing State (SIDS). SIDS are island nations that face unique social, economic, and environmental challenges, particularly regarding climate change and sustainable development. Maritius is made up of only 1% land and 99% ocean, and the population is 1.26 million people. It is very difficult for research and development due to a lack of manpower resources and sea-level rise. He thanked all the dignitaries and further collaborations.



5. **Dr. Jagvir Singh**

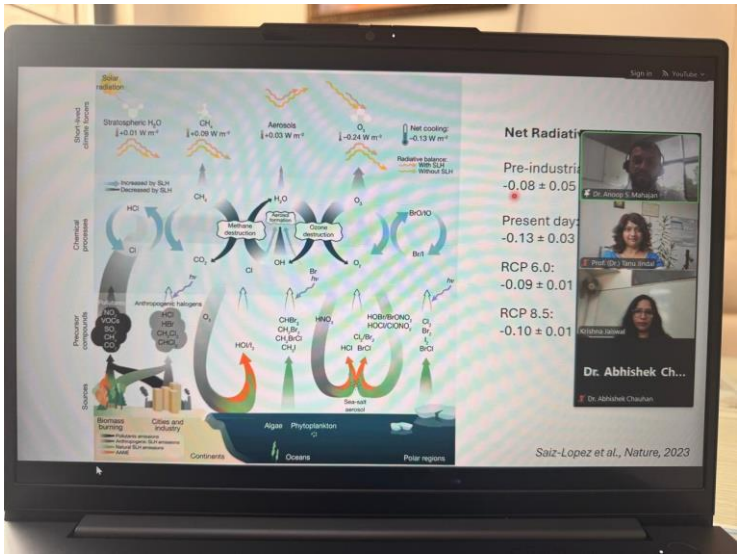
Scientist G, Ministry of Earth Sciences (MoES), Govt. of India

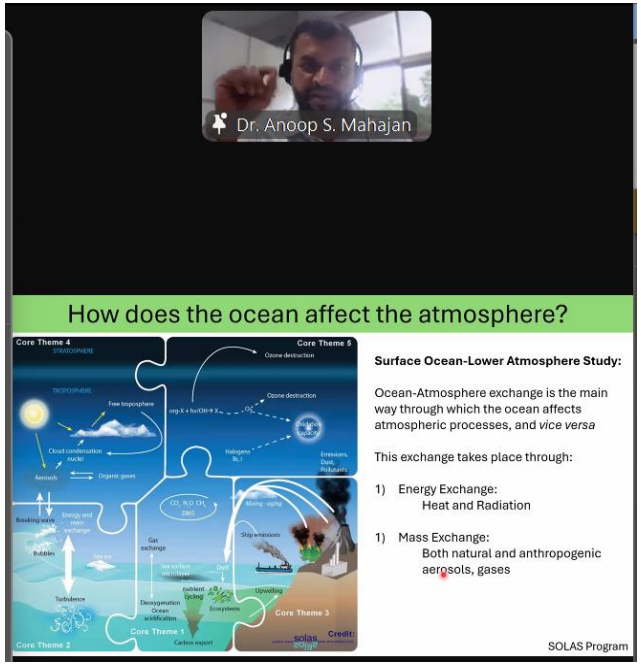
Dr. Jagvir focuses on Samudradev. He discussed the challenges of plastics and the ban on plastics by the Government of India. Launched a government programme for banning on plastics. More than 1.2 lakh (120,000) volunteers are actively involved in raising awareness about the challenges of plastic pollution, including organizing events, workshops, and educational campaigns to inspire behavioral changes. This includes community-based initiatives, collaborating with local businesses, and participating in clean-up drives. Recycling and reusing plastic are crucial for managing waste and promoting sustainability. Recycling and reusing plastic are essential for addressing the plastic waste crisis and promoting a more sustainable future. By reducing waste, conserving resources, and minimizing environmental impact, these practices contribute to a healthier planet.

6. **Dr. Anoop S. Mahajan**

Scientist F, Indian Institute of Tropical Meteorology

Dr. Anoop discussed that the Earth's surface is covered by 71% ocean. His work is based on the Indian Ocean and the Southern Ocean. The ocean and atmosphere exchange energy through various processes, including heat transfer and moisture transfer. This exchange drives climate patterns and weather events. Mass exchange occurs through aerosols (direct) and gases (indirect). The ocean and atmosphere are a coupled system, constantly exchanging mass, energy, and momentum. Aerosols, small particles suspended in the atmosphere, play a crucial role in this interaction, influencing climate and regional air quality. The ocean is a major source of Aerosols (mainly made of sulphate). He discusses Dimethyl Sulphate (DMS) emission. Dimethyl sulfide (DMS), a key sulfur-containing gas, plays a significant role in ocean-atmosphere interactions, primarily through its role in cloud formation.



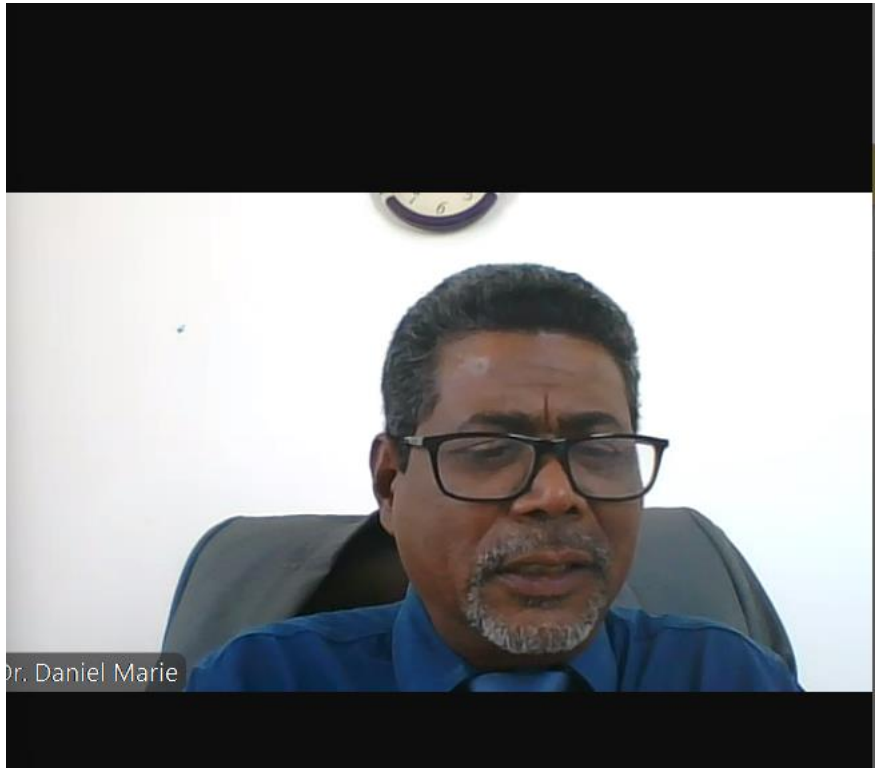


7. **Dr. Daniel Marie**

   Director, Mauritius Oceanography Institute

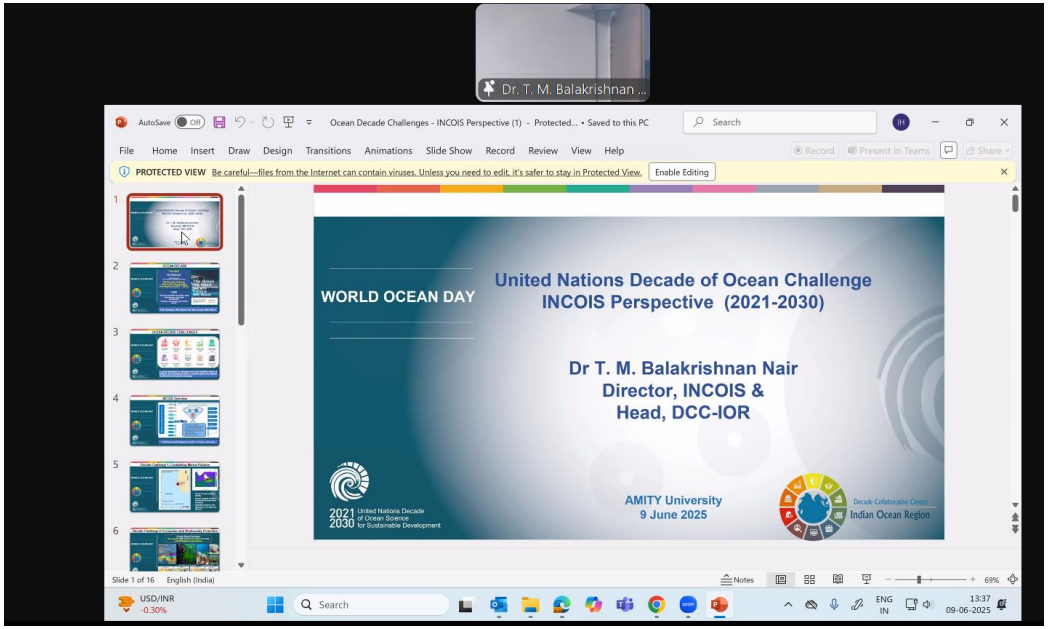
   Dr. Daniel Marie highlighted Ocean sustains us, and we should have a responsibility to sustain the ocean. Ocean sustainability involves managing marine environments in a way that protects their biodiversity, ecological processes, and the services they provide, while ensuring long-term well-being for humans and the planet. Ocean sustainability involves managing marine environments in a way that protects their biodiversity, ecological processes, and the services they provide, while ensuring long-term well-being for humans and the

planet. World Ocean Day catalyses collective action for a healthy ocean and a stable climate. He shared a glimpse of the Mauritius Oceanography Institute and used oceanographic tools.



8. **Dr. T. M. Balakrishan Nair**
   Director, Indian National Centre for Ocean Information Services (INCOIS)

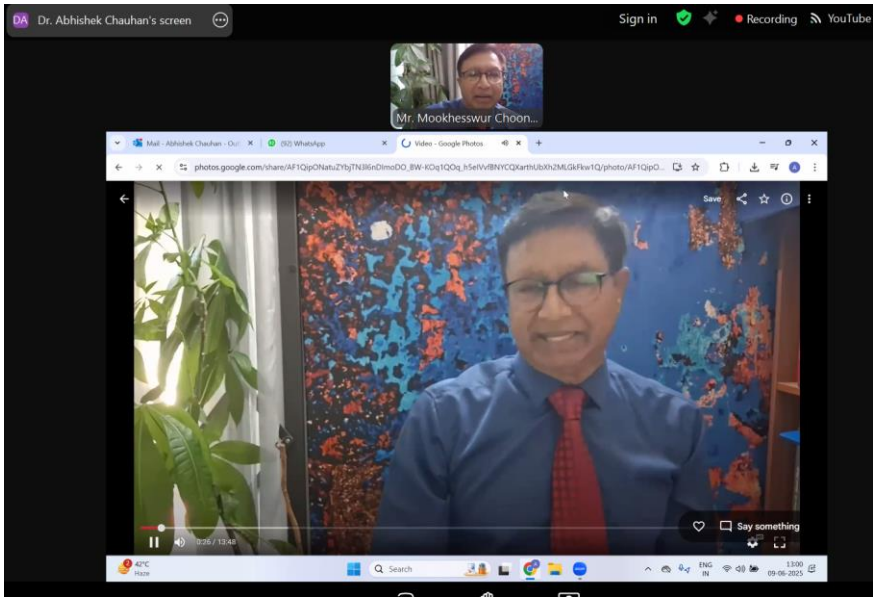
Dr. Nair talked about the role Incois plays and deal with ocean and science-based solutions. Mauritius plays a very important role in the ocean. The Indian National Centre for Ocean Information Services (INCOIS) provides a wide range of ocean-related information, including real-time oceanographic data, marine fishery advisories, ocean state forecasts, tsunami early warnings, and various other services INCOIS works to address the ten challenges outlined by the Intergovernmental Oceanographic Commission (IOC) under the UNESCO Ocean Decade. He addressed the Decade Challenge with combating Marine Pollution, Sustainable food from the ocean, Sustainable Ocean Economy, Climate Solutions, and other challenges.



9. **H.E. Mr. Mookhesswur Choonee**

Head of GOPIO International

With the theme sustaining what sustain us, Mr Choonee talked Mauritius is located approximately 5828 kilometers (3622.4 miles) from Delhi. Ocean plays a vital is Oceans and seas cover approximately 71% of the Earth's surface. The Indian Ocean is a vital resource providing essential resources like food, medicine, and shelter to coastal communities and plays a crucial role in sustaining human life. It supports livelihoods through fishing and maritime industries, offers a rich source of food and medicine from marine life, and acts as a barrier against storms and rising sea levels. Approx 50% of oxygen is produced by ocean that we breathe. Indian Ocean plays a key role in climate change, impacting on Indian monsoon. The Indian Ocean, the world's third largest, is warming at a faster rate than the other oceans, due to increased anthropogenic activities. Once the plastic is in the ocean, it decomposes very slowly, breaking into tiny pieces known as microplastics, which can enter the marine food chain and become incredibly damaging to sea life. Coral reefs are destroyed by over-harvesting and rising sea level disrupts coral and marine life.



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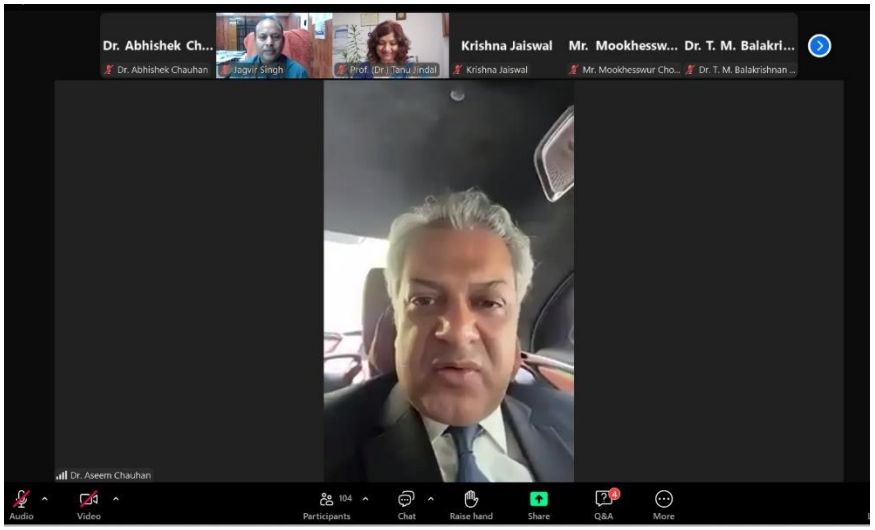
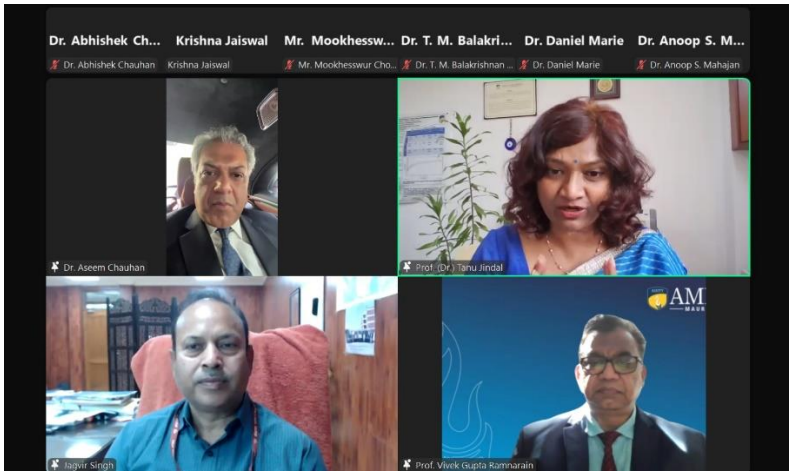
10. Dr Aseem Chahuhan

How countries India and Mauritius can collaborate in the field of oceanography. Dr Chauhan thanked Ramakrishna Nair for flourishing in the Mauritius Institute. He focused on collaboration with Mauritius and helped people in the coastal region with their livelihood. India and Mauritius can collaborate in oceanography through joint surveys, research initiatives, and capacity-building programs. This can involve sharing expertise, data, and technology, as well as fostering partnerships between research institutions.

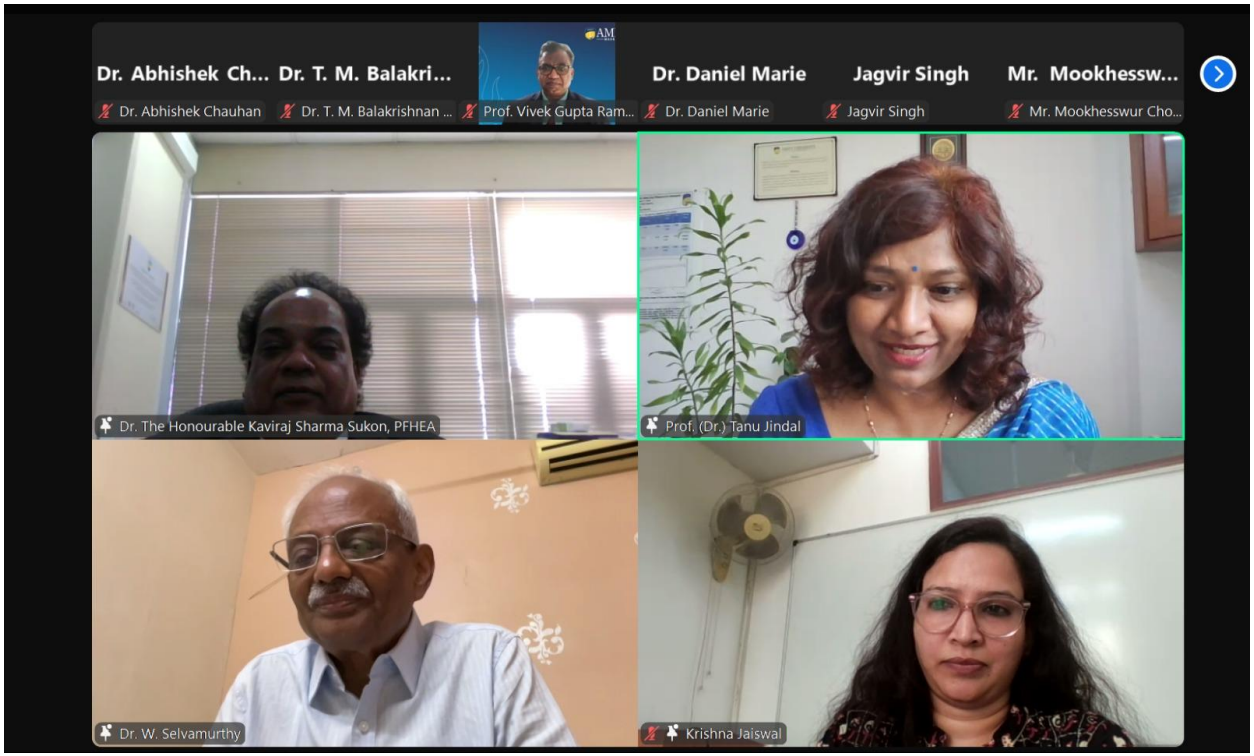




11. Hon'ble Kaviraj Sharma Sukon, PFHEA

Minister of Tertiary Education, Science and Research, Republic of Mauritius

Hon'ble Sukon addresses the plastic degradation in Mauritius. The population of fish has declined drastically by the plastic and sea level rise by 70 meters. Both plastic pollution and sea-level rise are significant threats to marine ecosystems and fisheries, but the scale of the decline they cause and the extent of a 70-meter sea level rise are not directly comparable. He discussed the projects that focus on transforming waste and reducing pollution. The Mauritius government and NGOs are actively involved in planting mangroves



12. Dr. W.Selvamurthy

Dr. Selvamurthy thanked Ramanarain for his excellence and the participants. Ocean development and the ocean department work together to protect the ocean and its purity. The Indian government launched the Deep Ocean Mission (DOM) in 2021 and aims to explore and harness deep-sea resources in a sustainable and technologically advanced manner, exploring the ocean bed at depths of up to 6,000 meters. Ocean Day is celebrated to respect the ocean, where life originated, it provides food, medicine, and oxygen. He also applauded Hon'ble Founder President and Chancellor Dr. Aseem Chauhan and thanked Dr. Jindal.


Dr. Abhishek Ch...
Dr. T. M. Balakri...
Mr. Mookhessw...
Dr. Anoop S. M...
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