

Department of Microbiology

Live webinar Report

Marine Microbes - A Wonder of the World

December 11th, 2020

Participants: 173

Live Webinar on Marine Microbes - A Wonder of the World was successfully hosted by Department of Microbiology, Karpagam Academy of Higher Education with participation of diverse disciplines of life science people from various Universities, Colleges and Research centres all over from India on 11th December, 2020. The Department of microbiology is pioneer in planning and execution of various virtual conferences, seminars, workshops and other such academic activities for life science students. In the pandemic microbe era, the microbiology department has well proposed this important webinar entitled on “Marine Microbes - A Wonder of the World” as perspective to create awareness about marine microbes and its potential significance. The webinar addresses the multidisciplinary research approaches on marine microbes and its applications in pharmaceuticals, cosmetics, therapeutics, health supplements, R & D and also in various dimensions. This webinar proposed to cover all life science students to gain knowledge in handling microbes in various aspects under favourable conditions. There were nearly about **173** number of participants registered for this programme from different Universities and Colleges across India and all participants were successfully completed the programme. The programme progressed with opening remarks for the live webinar at 11.30 am by Dr. Usha, Prof and Head, Department of Microbiology, followed by welcome address has been given by Dr. N. Sharmila Devi, Assistant Professor Department of Microbiology.

Resource Person was Dr. K. Kathiresan, Honorary Professor, CAS in Marine Biology, Annamalai University, Chidambaram, and Tamil Nadu. He is a world class scientist and ranked among the 2% scientist in the world. . He significantly contributed to the understanding of mangrove biodiversity and conservation. He discovered a new mangrove species, and named it after his University as *Rhizophora annamalayana*. He also identified 20 rare mangrove species

and two globally threatened species in India. Further he compiled over 5,000 species in Indian mangrove forests as the highest biodiversity record in the world; no other countries in the world have recorded so much of biodiversity in mangrove forests.

His efforts on mangrove restoration in degrading areas are commendable. He demonstrated it for enhancing fishery resources, and also saving thousands of human lives during 2004 tsunami along the Vellar estuary in Tamil Nadu and the Ariyankuppam estuary in Puducherry. He proved the tsunami mitigating effect of mangroves for the first time in the world. His innovative work proved the mangroves as a source of high value products such as black tea and medicinal compounds especially against HIV causing AIDS. Dr. Kathiresan is a recipient of many awards. To Cite a few, “Tamil Nadu Scientist Award” in 1995 by Government of Tamil Nadu, International “NAGA” award by World Fish Centre in 2001, “Distinguished teacher” award of Annamalai University in 2009, and the Elected Fellow of National Institute of Ecology in 2004, “Mangrove Society of India ” in 2017 and National Academy of Biological Sciences in 2019.

He executed 22 projects, guided 40 Ph.D., scholars, and brought out a total of 520 publications. He trained over 500 scholars/coastal managers of 28 countries on mangrove conservation. He helped in drafting the guidelines for conservation of mangroves for Govt. of India and IUCN as a national consultant.

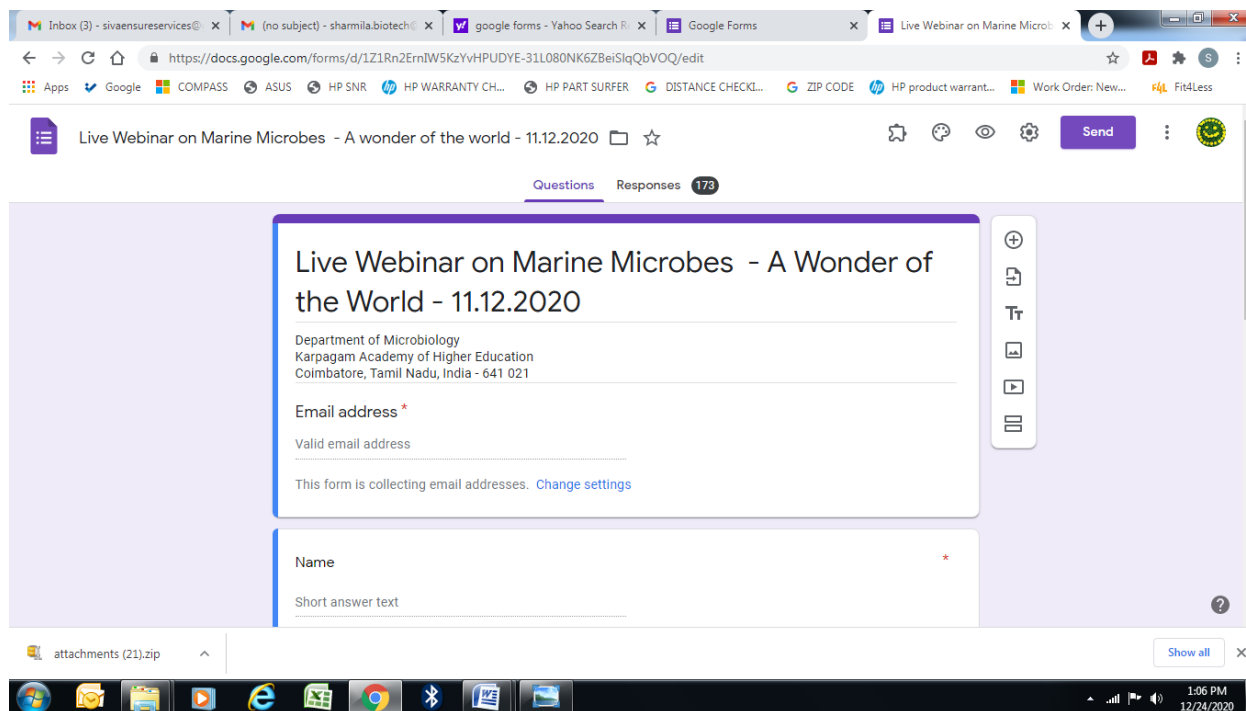
The content of the webinar addresses the following key points related to Marine Microbes,

- Marine Microbiome
- Marine food web
- Role of Microbial community in the marine.

- Marine microorganisms serve as "the foundation of all marine food webs, recycling major elements and producing and consuming about half the organic matter. Prebiotics or probiotics

In the end Dr. R. Dineshkumar, Assistant Professor, handled questioning session and conveyed to resource persons put forth by the external participants. Dr. P Anna Joice, Assistant Professor gave the vote of thanks and concluded the one-day live webinar. This programme has reached many life science students and research scholars to gain current knowledge on life science research and its development. All the students were provided with participation certificates followed by the successful completion of webinar event.

PHOTOS OF THE EVENT:



The screenshot shows a Google Forms interface for a registration form titled "Live Webinar on Marine Microbes - A Wonder of the World - 11.12.2020". The form is set to collect email addresses and names. The header of the form includes the title, date, and the organizing department: Department of Microbiology, Karpagam Academy of Higher Education, Coimbatore, Tamil Nadu, India - 641 021. The form fields are "Email address" (marked with an asterisk) and "Name" (also marked with an asterisk). Below the email field, there is a note: "Valid email address" and "This form is collecting email addresses. [Change settings](#)". The "Name" field is a "Short answer text" type. The form is displayed in a web browser window with multiple tabs open, including "Inbox (3)", "google forms - Yahoo Search", and "Live Webinar on Marine Microbes". The browser address bar shows the Google Forms URL. The Windows taskbar at the bottom indicates the time as 1:06 PM on 12/24/2020.

Registration Form



KARPAGAM ACADEMY OF HIGHER EDUCATION
(Deemed to be University)
(Established Under Section 3 of UGC Act, 1956)

Faculty Of Arts, Science & Humanities
DEPARTMENT OF MICROBIOLOGY
In association with NSS and KAHE-IIC

  **INSTITUTION'S INNOVATION COUNCIL**
(University of 1000 Initiatives)

Live Webinar

"Marine Microbes – A Wonder Of The World "
in association with NSS

Dec 11 2020
Time 11.30am – 12.30pm

Chief Guest
Dr. K. KATHIRESAN D.Sc.
Honorary Professor CAS in Marine Biology
Annamalai University
Chidambaram.

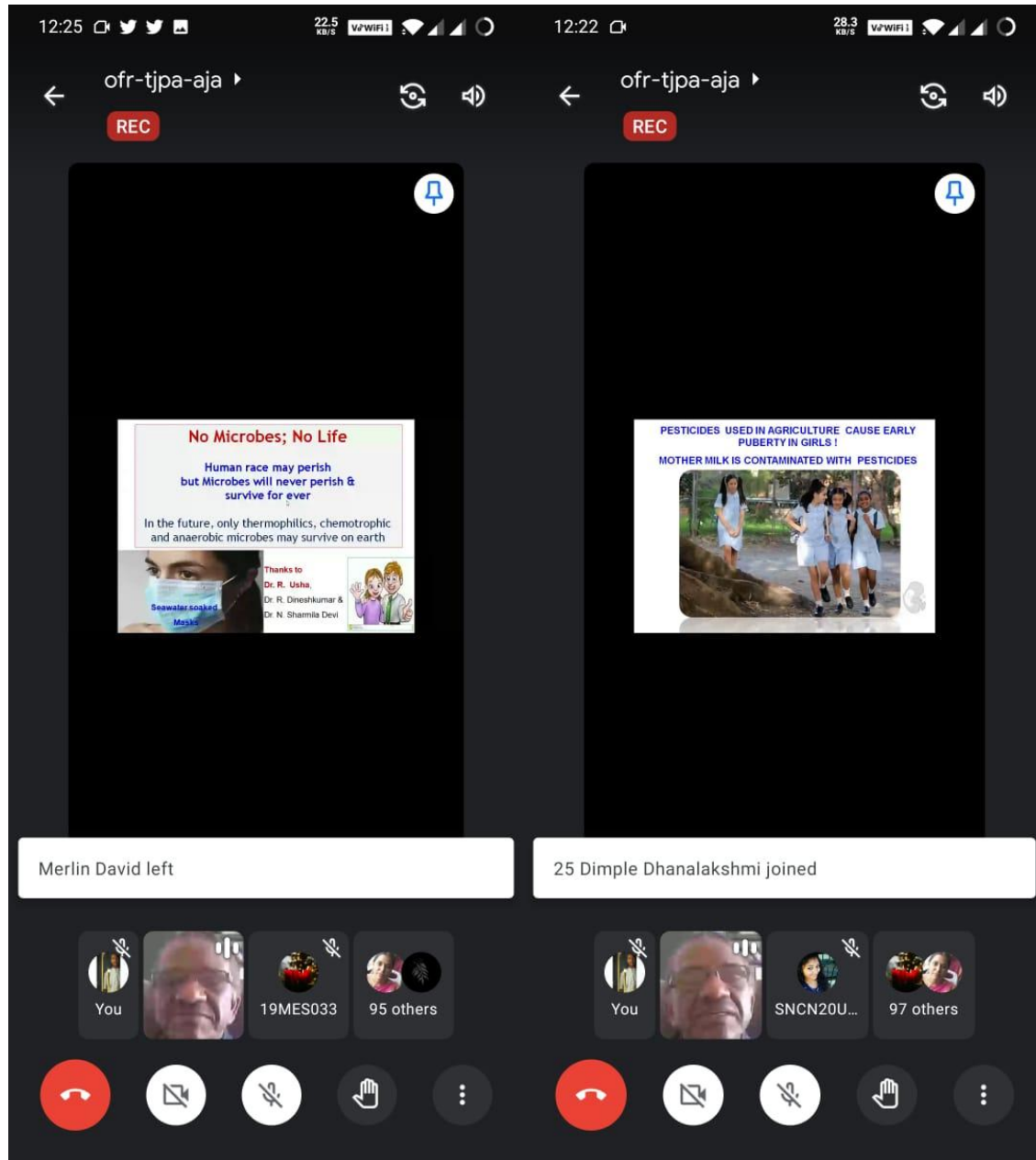
He received recognition of Top 2% scientist in the world for his contribution in the marine biology ranked by Standford University -USA

Convener
Dr. R. USHA
Professor and Head

Organizer
Dr. R. DINESHKUMAR
Asst.Professor


Dr. N. SHARMILA DEVI
Asst . Professor

Link for Registration:
<https://forms.gle/XkEphWZFHujkD6wJ9>

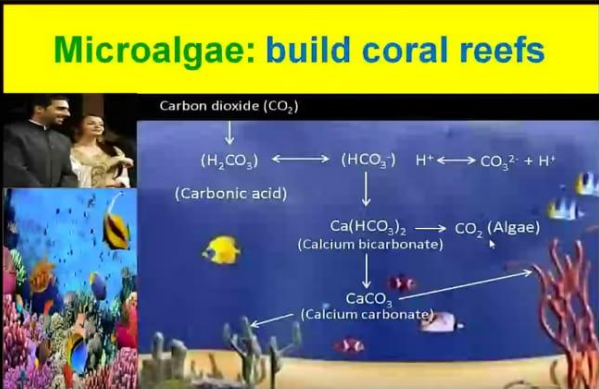


Power Point Presentation by Chief Guest

REC



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Microalgae: build coral reefs

Carbon dioxide (CO₂)

↓

(H₂CO₃) ↔ (HCO₃⁻) H⁺ ↔ CO₃²⁻ + H⁺

(Carbonic acid)

↓




Ca(HCO₃)₂ → CO₂ (Algae)

(Calcium bicarbonate)

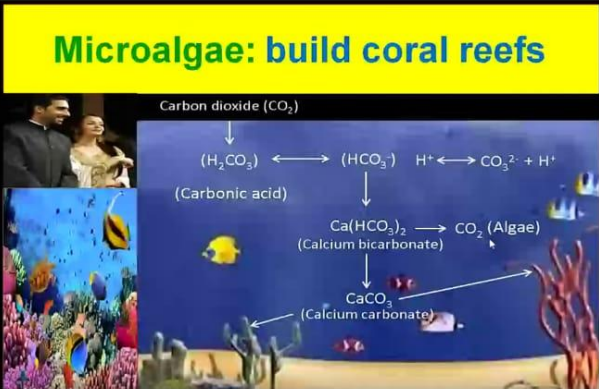
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CaCO₃

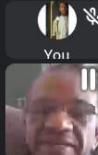


(Calcium carbonate)

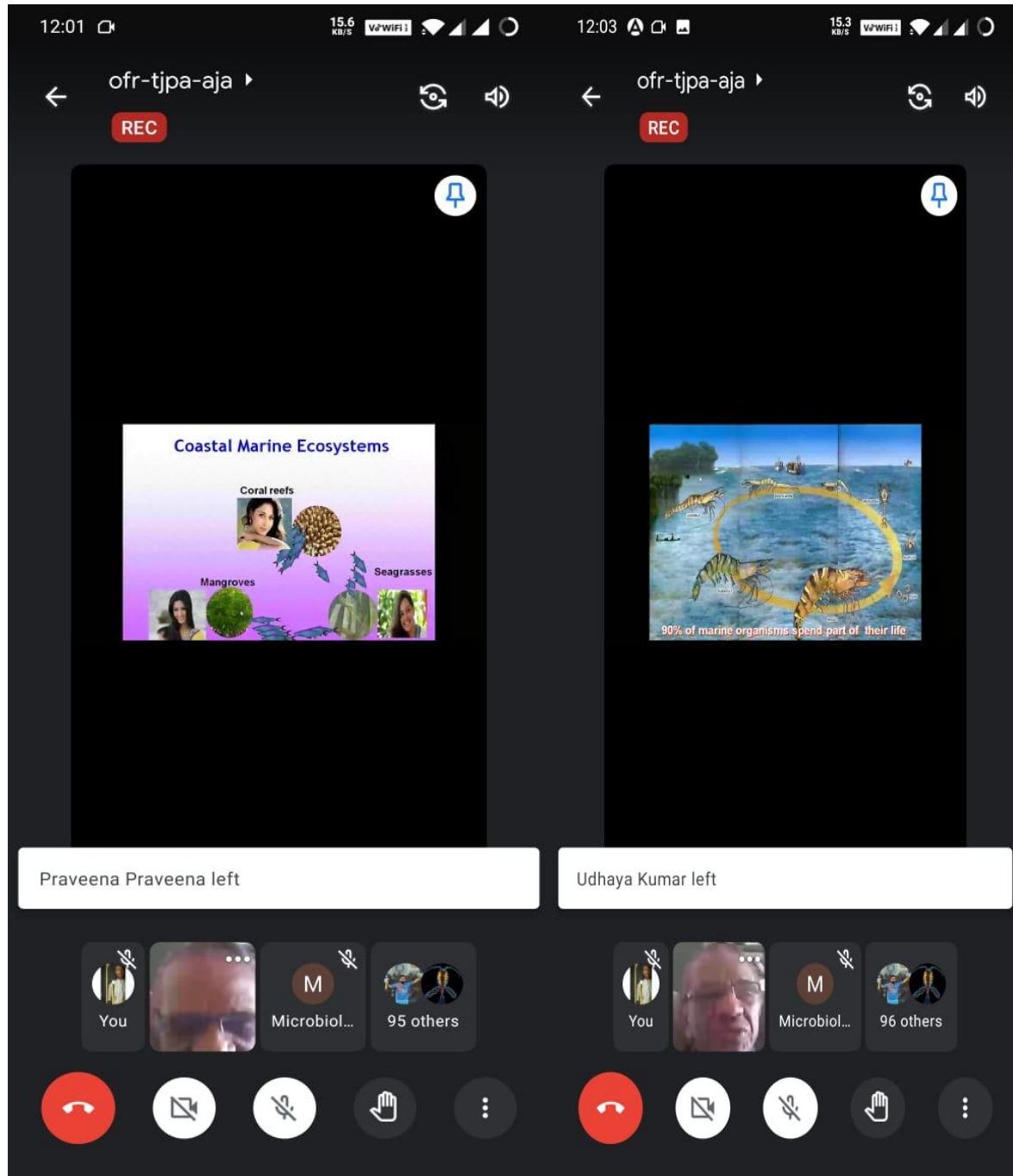
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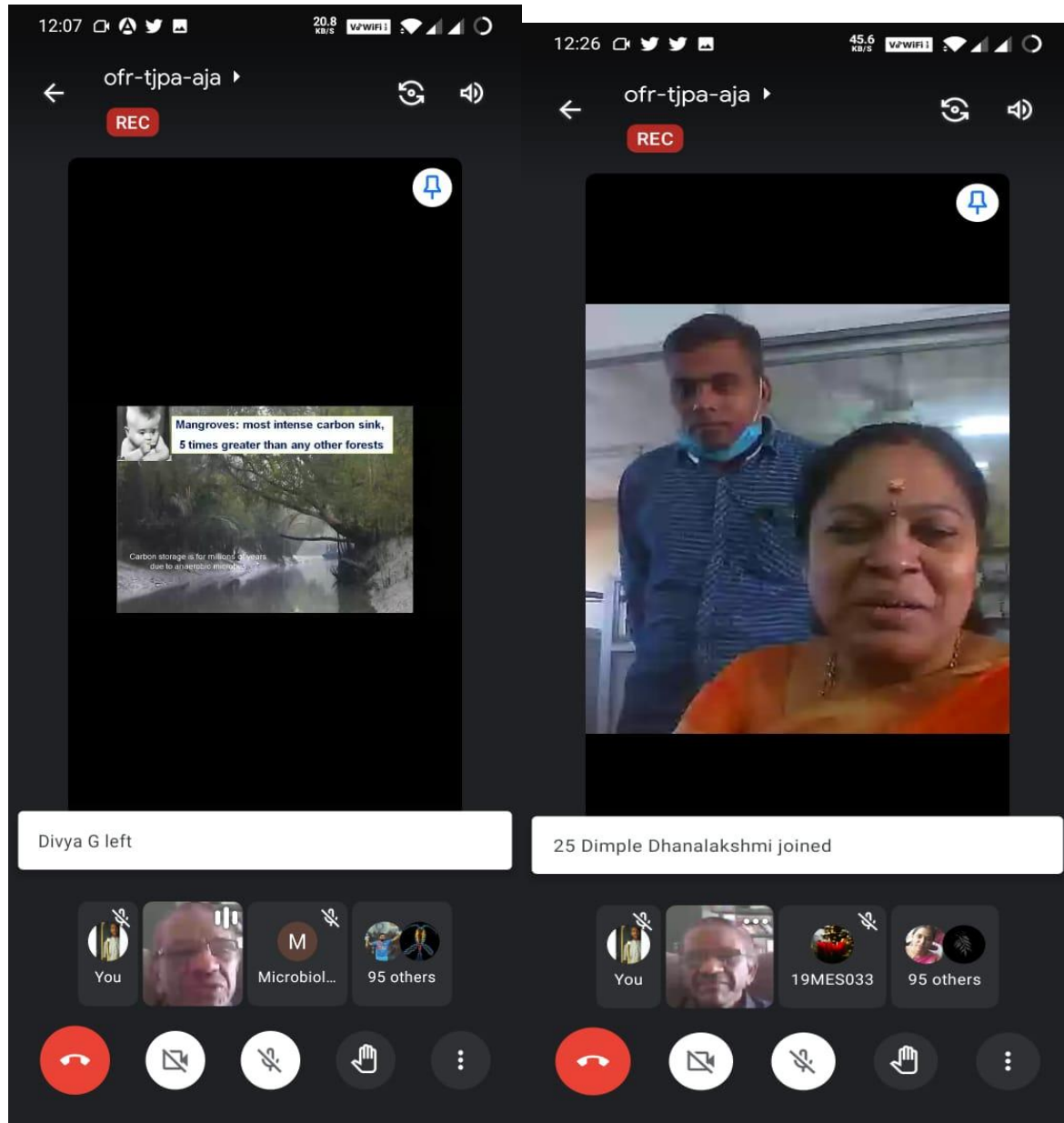
Padmavathy Sethuramasamy joined

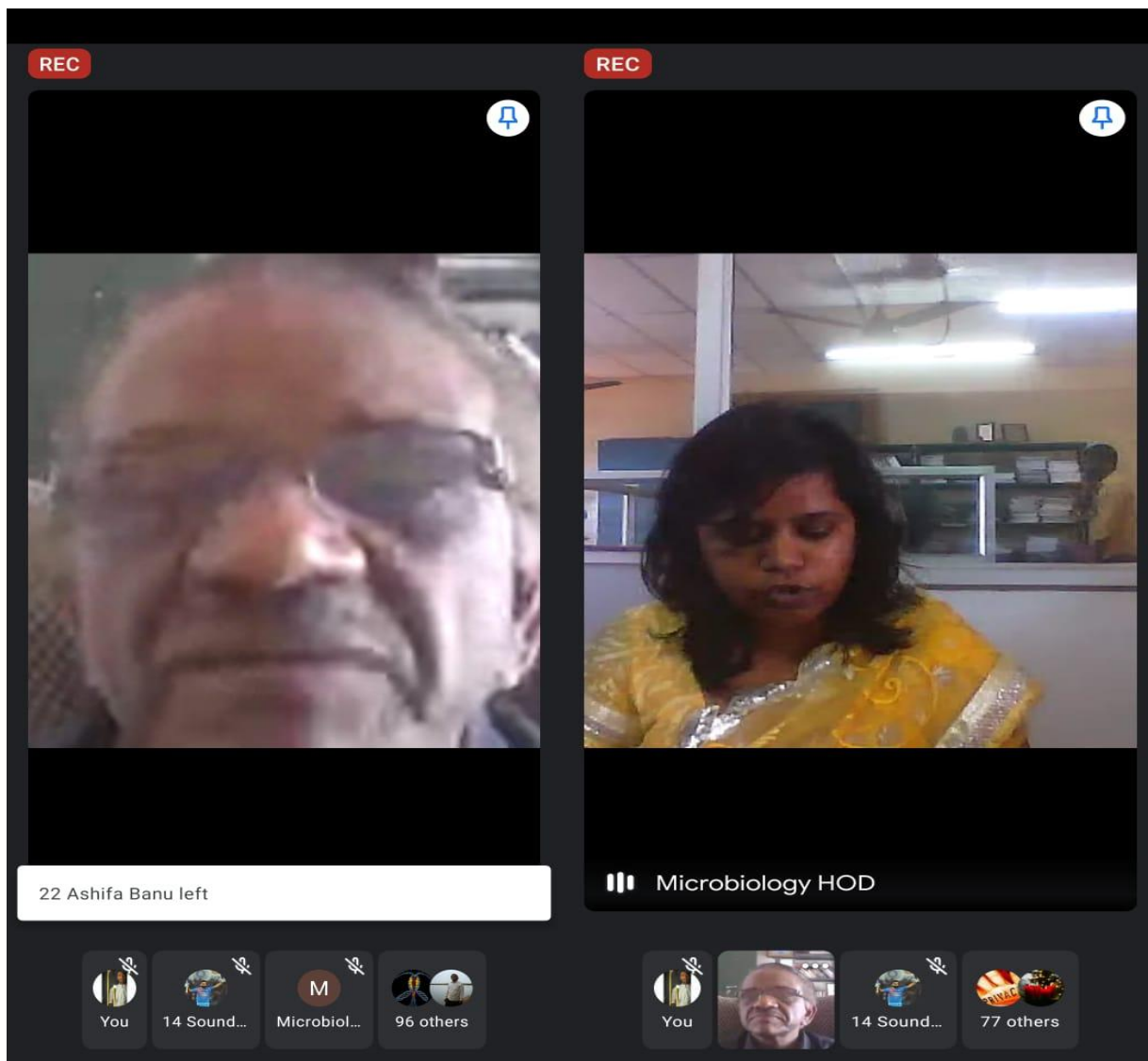
Discussion



Power Point Presentation



Discussion



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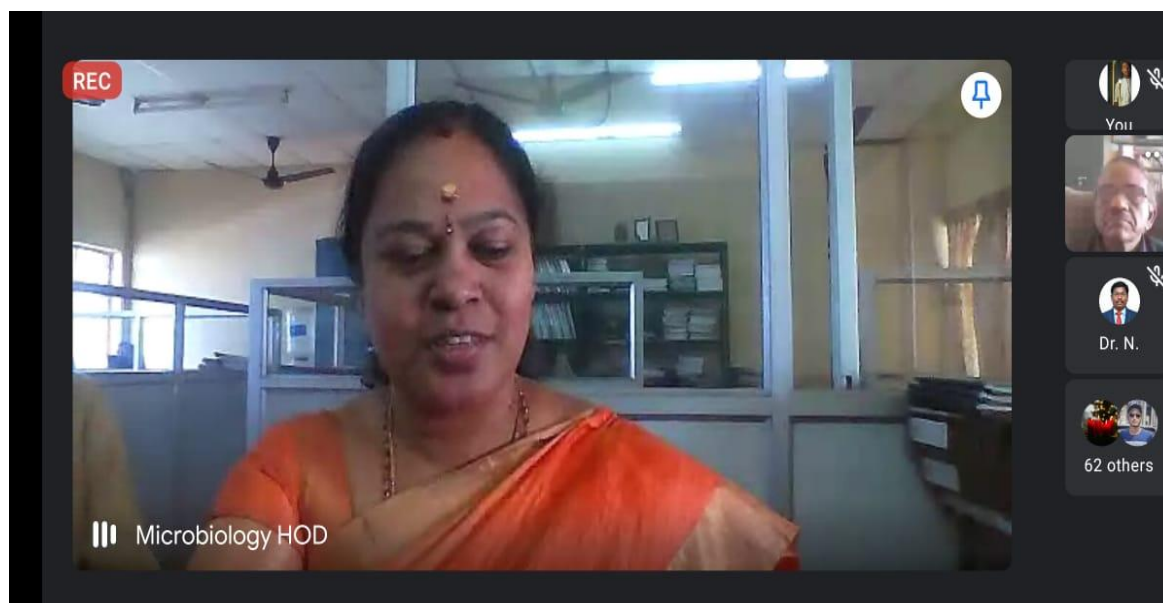
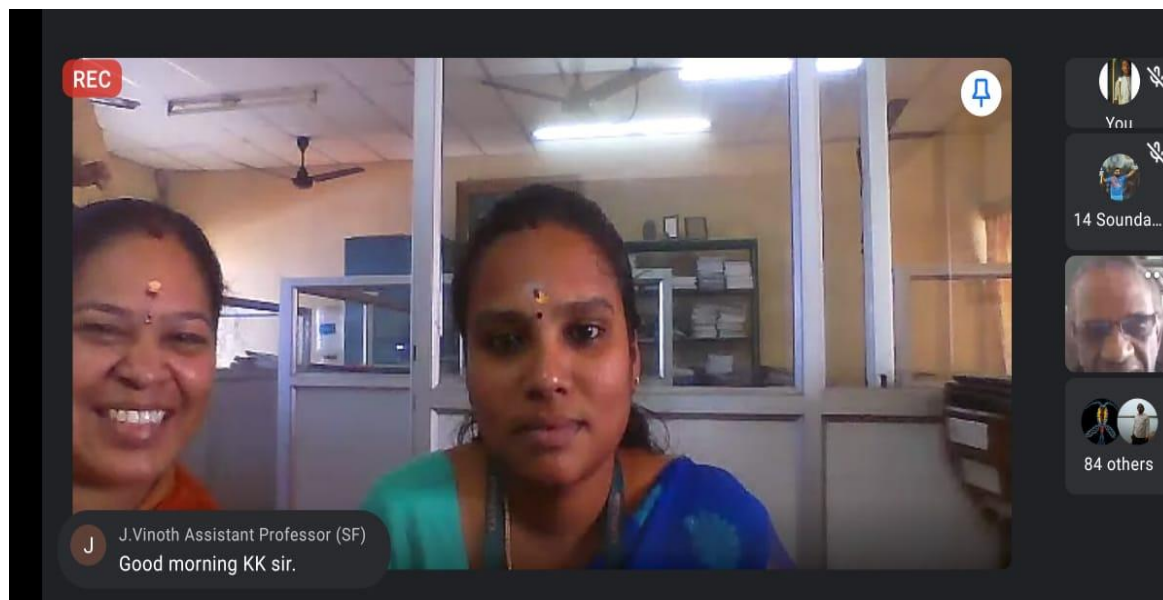
22 Ashifa Banu left

Microbiology HOD

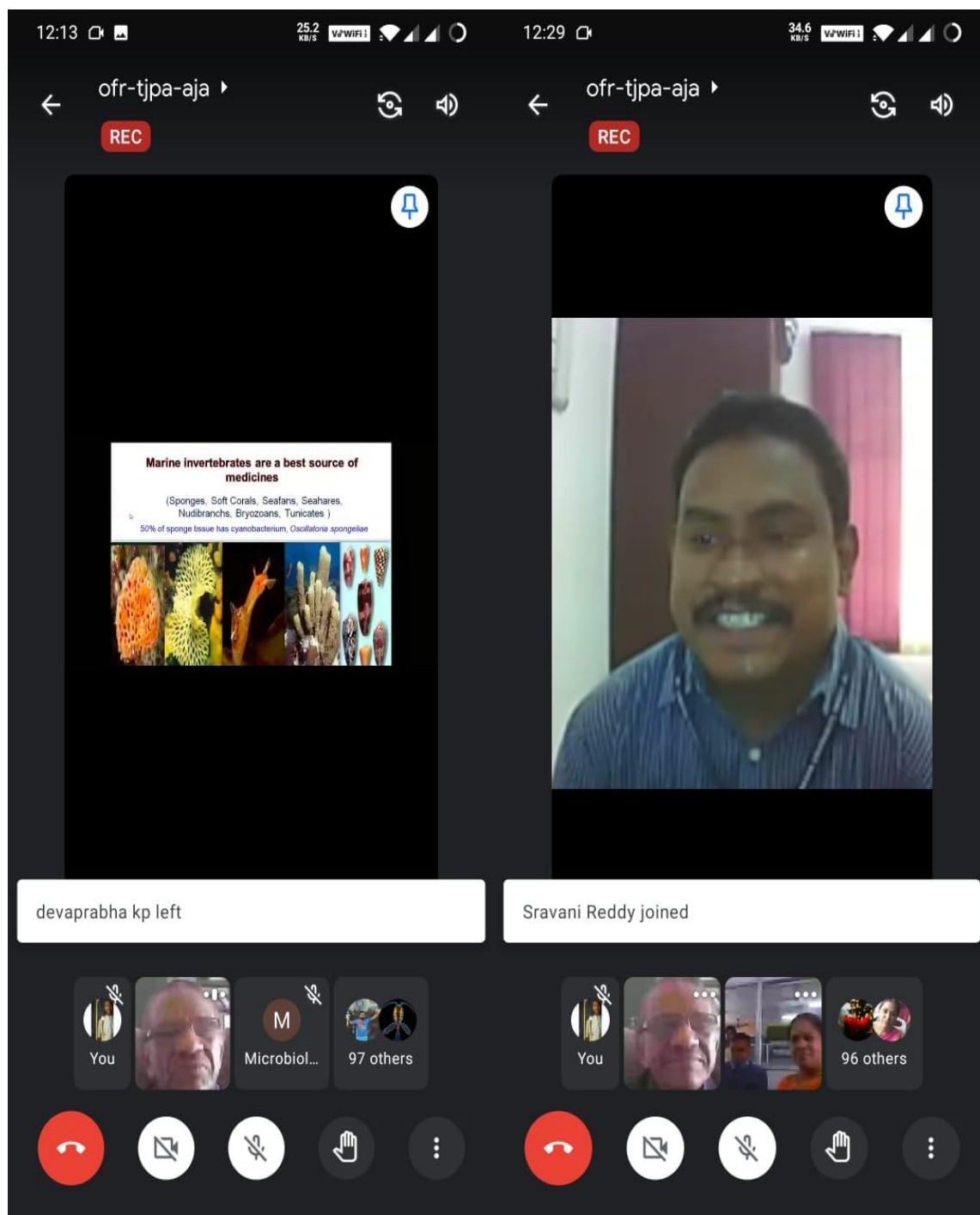
You 14 Sound... Microbiol... 96 others

You 14 Sound... 77 others

Discussion



Vote of Thanks



Conclusion