

DEPARTMENT OF PHYSICS
SCHOOL OF ARTS AND SCIENCE

AV Campus, Paiyanoor - 603 104

REPORT OF THE WEBINAR

Title of the Event : **International webinar on Materials**

Date : 27.10.2023

Venue : Virtual Mode

No. of. Participants : 46



The banner features logos for Vinayaka Mission's Research Foundation, SAS, and the Accredited with A Grade by NAAC. The text reads: "Cordially invites you all for the International Webinar Series on Materials Lignin : from waste into valuable products". It identifies the Resource Person as Dr. Phung Thanh Khoa, from the Chemical Engineering Department at International University, Vietnam National University, Vietnam. The event is on 27.10.2023, online, from 1.30 - 2.30 pm (Indian time) and 3.00 - 4.00 pm (Vietnam time). A "Register now" button with the URL <https://bit.ly/3LXHnky> and a QR code are provided. The event is organized by the Department of Physics.

The 2st lecture of the International webinar series titled " Lignin : from waste into valuable products " was organised by the Department of Physics, School of Arts and Science (SAS), Paiyanoor. The webinar took place on October 27, 2023, on a virtual platform.

T.H Nazeema, Director, SAS, introduced the School of Arts and Science, VMRF-DU to the participants and the purpose of the webinar. Her talk covered importance of materials science and interdisciplinary science to become a profound researcher.

The image displays a chemical synthesis flowchart for a Ru/C catalyst. The process starts with 'Dried shrimp shells' which are 'crushed' into a powder with a size of '125 - 212 μm'. This powder undergoes 'treatment' at '600°C, 2h, N₂' to produce 'biochar'. The biochar is then treated with '+ KOH' at '750°C, 1.5h, N₂' to yield 'C-KOH'. This intermediate is 'Washed, 1M HCl' and then 'Dry at 80°C, 12h' to produce 'Dried C-KOH'. The 'Dried C-KOH' is then treated with '+ RuCl₃' and 'Stir, 3h, RT' to produce 'Ru/C-KOH'. Finally, the 'Ru/C-KOH' is 'Dry at 80°C, 12h' and then '350°C, 5h, H₂' to produce the final 'Ru/C' catalyst. The flowchart includes small images of the materials at each stage. At the bottom left of the flowchart, it says 'AMBEL Ref.: X.T. Pham et al., Energies, 15 (2022) 8611'. To the right of the flowchart is a screenshot of a Zoom meeting participant list titled 'Participants (47)'. The list includes names like 'Dr. Jayashree Ethiraj (Host, me)', 'Phung Thanh Khoa (Co-host)', 'A.yuganesh', 'Abhishek Kumar', 'Abhinaya.P', 'Amreen Siddique', 'Atharva kolkar', 'Chandru A', 'D.Tamilselvi', 'Deependra Singh', 'Dharmendra Kumar', 'DIRECTOR SCHOOL OF ARTS AND SCIENC...', 'Dr Surenjiren', and 'Dr. S. Rathakrishnan, SAS'. There are 'Invite' and 'Mute All' buttons at the bottom of the list.

Introduction of the webinar was given by Dr. Jayashree Ethiraj, Associate Professor and Head, Department of Physics, SAS, VMRF-DU, Lignin is the second most abundant natural material on the earth. Commercially, it is generated as a waste product from the paper and ethanol production. It is expected to reach \$913.1 million by 2025. Asst. Prof. N. Harikrishnan introduced the guest of honor to the participants which was followed by 45 mins presentation by Dr. Phung Thanh Khoa, Vietnam National University, Vietnam.

Following speaker's presentation, 10 mins were given to participants to ask questions to the speaker and this was a very interactive session, nearly 7-8 questions were answered by the speaker. Vote of thanks was delivered by Mr. P. Thiyagarajan, Asso. Prof, Department of Physics.

PARTICIPANT'S DETAILS:

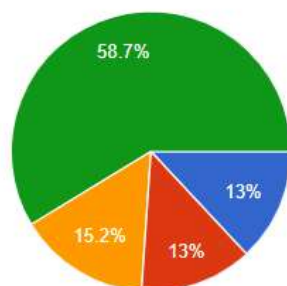
A total of 112 registrations were received, out of which 44 persons actively attended the event. Furthermore, an e-certificate was provided to the registered email addresses of the participants. The webinar was attended by faculty members, research scholars, and experts from various constituent colleges.

OUTCOME:

An overwhelming response has been received for webinar from various educational institutions. The participants have given very good feedback for the flawless conduct and certificate issued.

How will you rate your knowledge?

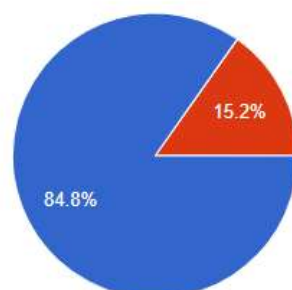
46 responses



- Beginner in the topic
- Familiar with topic
- Working in same area
- Topic is new to me

Share your experience

46 responses



- Interesting
- Long seminar but interesting
- Was not my area of research

Sample Certificate



SCHOOL OF ARTS AND SCIENCE
VINAYAKA MISSION'S RESEARCH FOUNDATION
(Deemed to be University under section 3 of the UGC Act 1956)



Certificate of Participation

The Department of Physics, School of Arts and Science, VMRF-DU, Chennai Campus certifies

Mr. Ram Milan Vishwakarma

as participated in the International Webinar on
"Lignin : from waste into valuable products" by
Dr. Phung Thanh Khoa, Vietnam National University, Vietnam
held on 27th October 2023

 Co-Convenor Dr. N. Harikrishnan	 Convenor Dr. Jayashree Ethiraj	 Director Dr. T. H. Nazeema
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