

**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** : 29.11.2023  
**Venue** : Virtual Mode  
**No. of. Participants** : **81**



The poster is a blue and white graphic for a webinar. At the top left, it features the logos for Vinayaka Mission's Research Foundation and SAS (School of Arts and Science). The text reads: "Cordially invite you all for the International Webinar on Materials : Lecture 3 Photoactive Materials". Below this, it identifies the resource person as Dr. Tomasz Baran, a scientist at IC2R, Bari, Italy. The event is scheduled for 29th November 2023, from 2:00 pm to 3:00 pm (Indian Time) and 9:30 am to 10:30 am (Italian Time). A registration link is provided as <https://bit.ly/46pud0u>, and a QR code is included for scanning. The poster is organized by the Department of Physics, SAS & DESIRED - An European Union Project.

The 3<sup>rd</sup> lecture of the International webinar series titled "Photoactive Materials" was organized by the Department of Physics, School of Arts and Science (SAS), Paiyanoor. The webinar took place on November 31, 2023, using a virtual platform. DESIRED-An European Union Project, Italy joined us organizing the webinar successfully.

**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 screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "CO<sub>2</sub> reduction to CO and formic acid". The slide includes chemical reaction schemes and two bar charts. The top chart shows the concentration of products (CO, HCOOH, DI) for four photocatalysts: ZrO<sub>2</sub>-A, RuO<sub>2</sub>/ZrO<sub>2</sub>-A, ZrO<sub>2</sub>-B, and RuO<sub>2</sub>/ZrO<sub>2</sub>-B. The bottom chart shows the reduction of products (CO, HCOOH/HCOO<sup>-</sup>, DI) for three solvents: methanol, acetonitrile, and water. A chat window on the right contains several messages from participants asking questions about the mechanism of defect engineering, hot injection mechanism, and CO<sub>2</sub> radicals.

Introduction of the webinar was given by Dr. Jayashree Ethiraj, Associate Professor and Head, Department of Physics, SAS, VMRF-DU, that covered different materials are studied for their photoactive nature. Asso. Prof. P. Thiyagarajan introduced the guest of honour to the participants which was followed by 40 mins presentation by **Dr. Tomasz Baran, Scientist, DESIRED, An European Union Project, Italy**. Participants were requested to write down their questions in message box, which can also be seen in the above snap taken during the presentation.

Following speaker's presentation, 10 mins were given to participants to ask questions to the speaker and this was a very interactive session. Vote of thanks was delivered by Dr. N. Harikrishnan, Asst. Prof, Department of Physics.

### **PARTICIPANT'S DETAILS:**

A total of 140 registrations were received, out of which 81 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. Our motive is to spread knowledge with respect to latest research activities conducted using different materials. Most of our participants are either beginner or familiar with the topic and our webinar gives them fantastic opportunity to improve their knowledge.

### 4. How will you rate your knowledge?

PIE CHART

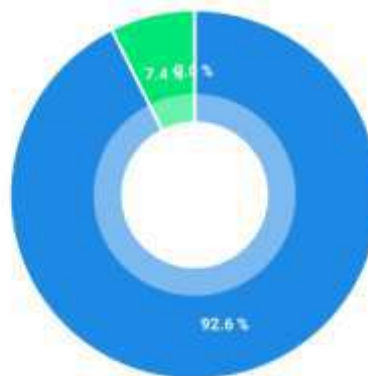
- Beginner in the topic - 32
- Familiar with topic - 21
- Working in same area - 5
- Topic is new to me - 23



### 5. Share your experience

PIE CHART

- Interesting - 75
- Long seminar but interesting - 6
- Was not my area of research - 0



## Sample Certificate

