

# DEPARTMENT OF PHYSICS SAROJINI NAIDU GOVERNMENT GIRLS P.G. COLLEGE (AUTONOMOUS) BHOPAL

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## MESSAGE BY HEAD OF THE DEPARTMENT

Dear students, I present before you this newsletter, which will give you latest information regarding the Nobel Prize in Physics for the year 2021. Also it is my proud privilege to present before you the various activities conducted by Physics Department during the period from July 2021 to December 2021. I wish all the students good luck for the future endeavours.

Dr. Pratishtha Khare

## DEPARTMENT OF PHYSICS

Dr. Shalini Pradhan  
Professor  
Research area :  
Material Science



Dr. Richa Sullerey  
Sharma  
Professor  
Research area :  
Opto-Electronics



Dr. Pratishtha Khare  
Professor and Head  
Research area : Polymer electrets



Dr. Geetanjali Pagare  
Professor  
Research area :  
Computational  
Condensed matter  
physics



Dr. Seema Hardikar  
Professor  
Research area : Wave  
guides

**Fighting climate change calls for Innovation, Cooperation and will power to make the changes that the world needs....**

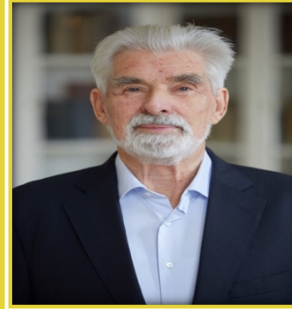
**-NARENDRA MODI-**

## **NOBEL PRIZE IN PHYSICS 2021**

The Nobel Prize in Physics 2021 was awarded for “groundbreaking contributions to our understanding of complex systems” with one half jointly to Syukuro Manabe and Klaus Hasselmann “for the physical modelling of Earth’s climate quantifying variability and reliably predicting global warming” and the other half to Giorgio Parisi “for the discovery of the interplay of disorder and fluctuations in physical systems from atomic to planetary scale.”



SYUKURO MANABE



KLAUS HASSELMANN



GIORGIO PARISI

## **EDUCATIONAL ACTIVITIES**

### **E WASTE**

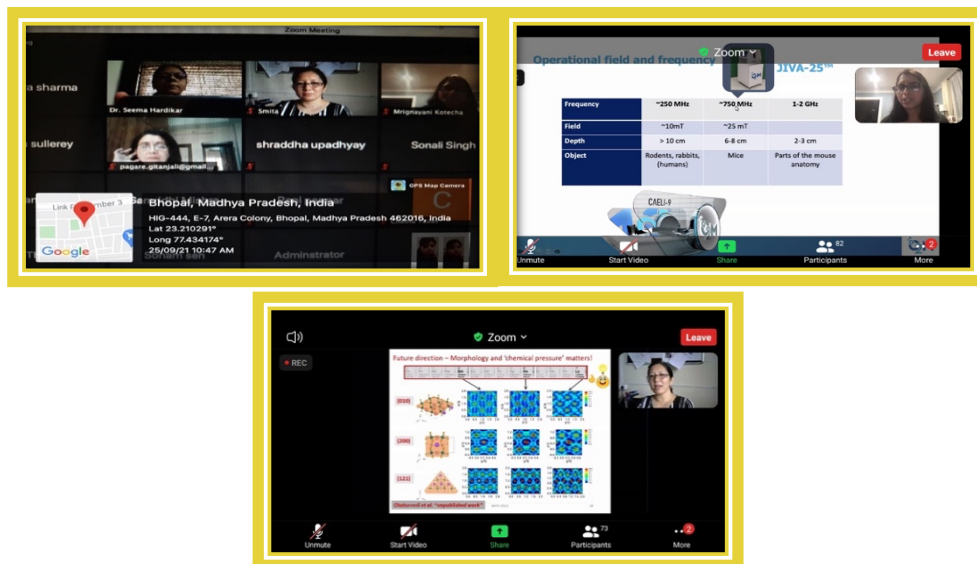
Dear students, as you all are aware electronic waste describes discarded electrical or electronic devices. Electronic products that are unwanted, not working and nearing or at the end of their useful life are considered under E waste. E waste is one of the fastest growing waste streams in our country, almost at the rate of 10%. In many developed countries, E waste management is given high priority. In our country there is lack of proper infrastructure and technically skilled human resource for E waste management. The presence of toxic substances like liquid crystal, lithium, mercury, nickel, selenium, polychlorinated bi phenyls, arsenic, etc. make it very hazardous hence it is very important to make proper arrangements for its disposal. Department of Physics in collaboration with E waste management committee of the college organized an awareness program and encouraged the students and the staff to submit their E waste in the boxes provided for its disposal. The program received overwhelming response from both students and staff equally.

**WHEN YOU REFUSE TO REUSE, IT'S THE EARTH YOU ABUSE**



## INTERNATIONAL WEBINAR

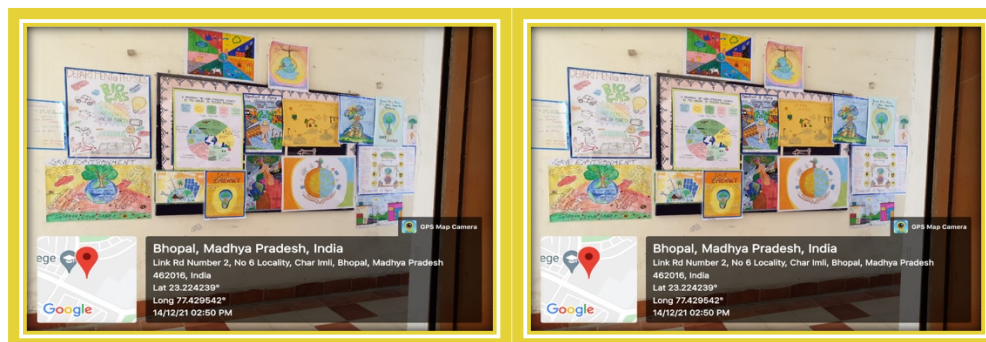
An online international webinar on “CURRENT TRENDS IN PHYSICS” was organized by Department of Physics on 24-09-2021 under the aegis of IQAC, and sponsored by world bank project MPHEQIP, Bhopal. Invited speakers were Dr. Mrignayani Kotecha, Founder/ CEO, O2M Technology, Chicago and Dr. Smita Chaturvedi, Assistant Professor, Interdisciplinary School of science, Savitribai Phule University, Pune. Dr. Kotecha gave a very informative lecture on Resonance oxygen imaging and Dr. Chaturvedi spoke on Multiferroics: Potential material for the era of IoT. The humongous participation of students and staff made this webinar a huge success.



SAVING  
ENERGY  
TODAY  
WILL MAKE  
OUR  
TOMORROW  
BRIGHT

## POSTER COMPETITION

A poster competition was organized by the department on the occasion of International energy conservation day on 14-12-2021 on the topic “Urja sanrakshan diwas and swachhata abhiyaan.” Our students participated in the activity with great excitement and enthusiasm. The students with the help of their posters communicated the message that for a better tomorrow, we need to save energy and thereby save the planet today.



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