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HENRY BAKER COLLEGE MELUKAVU

Department of Physics

ACADEMIC
YEAR

2019-20

FROM DARKNESS INTO MARVELLOUS LIGHT

Henry Baker College, Melukavu Is a Christian, Minority, Co-Educational, Government-aided Arts and Science College Established In 1981, affiliated to Mahatma Gandhi University, Kottayam, Kerala.

DEPARTMENT OF PHYSICS
HENRY BAKER COLLEGE, MELUKAVU

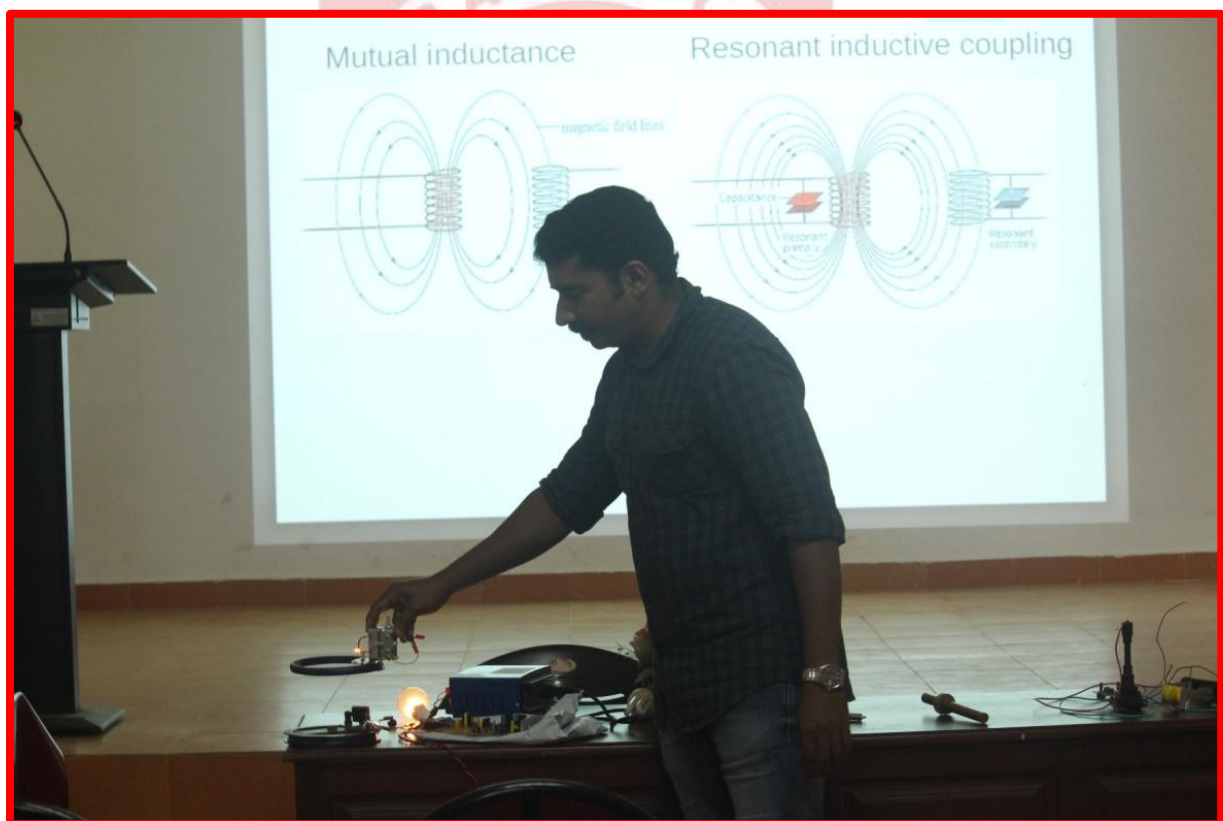
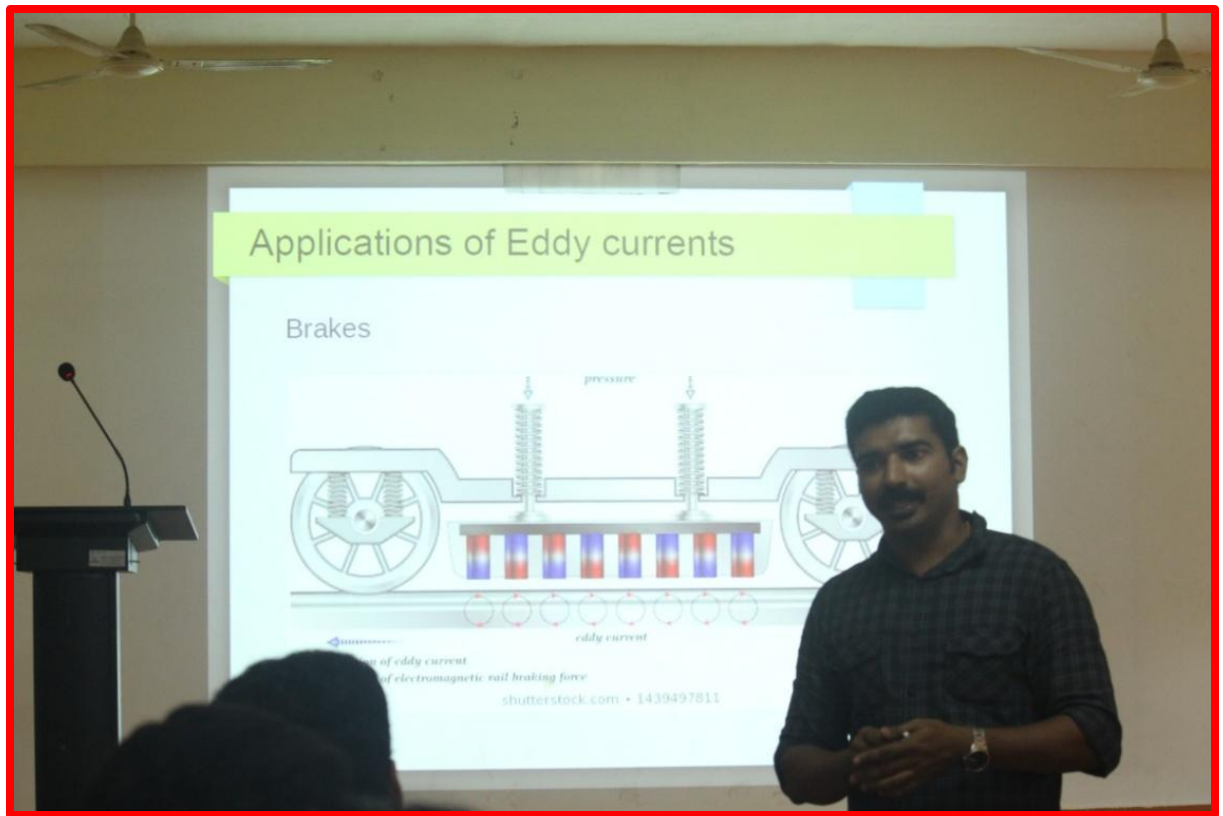
Activity Report 2019- 2020

1. Association inauguration and commemoration of Hiroshima Day

The Physics association for the year 2019-2020 was inaugurated on 6th August 2019 by Sri. Ajith Thomas, Department of Physics, St. Thomas College, Pala. The meeting began with a prayer song. Dr. Disha V. J welcomed the gathering which was followed by the presidential address by our Principal, Dr. G. S Gireesh Kumar. Sri. Ajith Thomas delivered an invited lecture on the topic 'Physics around Us'. The lecture mainly focussed on the applications of physics in our daily life through experimental demonstrations. 40 students participated in the meeting.



Presidential address by Dr. G. S. Gireeshkumar, Principal



Invited lecture 'Physics around Us' by Ajith Thomas, St. Thomas College, Pala

To commemorate Hiroshima day, a poster exhibition was arranged in the college auditorium. The inaugural session was followed by a poster exhibition organized in association with Breakthrough Science Society, Kottayam from 10 am to 3 pm. The poster exhibition depicted the horrifying scenes of first nuclear bomb blast at the city of Hiroshima and Nagasaki. The exhibition was open to entire students of the college



2. Ozone day celebration 2019

One day seminar on World Ozone day 2019

To create awareness about the preservation of ozone layer and the need for adopting an eco-friendly lifestyle among students and teachers, the Department of Physics, Henry Baker College organized a one day programme on 25th September 2019 with the financial support from Kerala State Council for Science, Technology and Environment (KSCSTE) based on this year's focal theme "**32 Years and Healing**".

The programme was organized in three sessions. The meeting was commenced with the inaugural session, followed by an invited lecture and an intercollegiate science quiz competition. More than 90 UG students and faculties were participated in the event.

In the inaugural session, Dr. Disha V. J., coordinator of the programme welcomed the gathering. Dr. G. S. Gireesh Kumar, Principal, Henry Baker College, presided over the function wherein he highlighted the main objectives of the programme. The function was inaugurated by lighting the lamp by chief guest, Dr. Ajith James Jose, Assistant Prof. in Chemistry, St. Berchmans College, Changanacherry. Dr. Prince Thomas proposed the vote of thanks.

In session II, Dr. Ajith James Jose delivered a lecture on '32 years and Healing'. In his scientific lecture, various topics related to ozone layer depletion, its causes, impacts and the efforts made by international community for the preservation of ozone layer were highlighted. He also pointed out various ways for keeping our environment and atmosphere clean so that not only humans, but also the plants and animals can live a healthy life in future.

Session-III started at 12 pm with the preliminary round of Intercollegiate Science Quiz Competition. The preliminary round was a written test comprising of 30 questions based on Environmental Science and Basic Science. Twenty-one teams from nearby colleges participated in the event. After the preliminary round five teams were selected for the final round. Dr. Jobin Job Mathen, Department of Physics, St. Thomas College, Pala presided as the Quiz master. Final round started at 1.30 pm. The winners were:

First Prize- Rs. 2000/-: Mr. Vinayak Sanil&Abin Thomas, Department of Physics, St. Stephen's College, Uzhavoor.

Second Prize-Rs. 1500/-: Ms. ShelcyShaji&Akhila D Department of Physics Alphonsa College, Pala.

Third Prize-Rs. 1000/-: Mr. Anand Manusankar & Manikandan S. Department of Physics, St. Thomas College, Pala.

Valedictory function started at 3.30 pm and Dr. G. S. Gireesh Kumar, Principal awarded cash prize and certificates to the winners. The programme came to an end by 3.45 pm.



World ozone day 2019 – Inauguration by Dr. Ajith James Jose, St. Berchmans College, Changanacherry





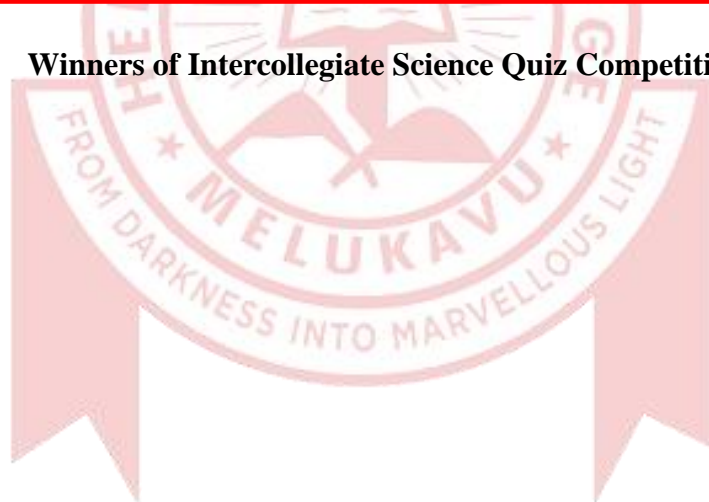
Invited Talk '32 years and Healing' by Dr. Ajith James Jose



Intercollegiate Science Quiz Competition- Final Round



Winners of Intercollegiate Science Quiz Competition



General Instructions

- A team of 2 participants from any science department can participate.
- Registration fee is Rs.100/-per team.
- Participants are requested to produce authorisation letter/college ID at the time of registration.
- Lunch will be provided to the participants.
- Participants are requested to register through email on or before 22nd September 2019 (please send an email to physicshbc@gmail.com specifying participant's name, college address and contact number).

Organising Committee

Dr. G. S. Gireeshkumar (Principal)
 Dr. Disha V. J. (Coordinator, Mob: 9961845861)
 Dr. Prince Thomas (Mob: 9946144408)
 Mr. Jerry Joseph
 Ms. Adhira Venugopal
 Mr. Rahul Ravi (Association Secretary, Mob: 8606287369)

1st Prize 2000-
 2nd Prize 1500-
 3rd Prize 1000-

How to reach



HENRY BAKER COLLEGE MELUKAVU

Melukavattom P. O., Kottayam, Kerala 686652
 (Affiliated to Mahatma Gandhi University, Kottayam)

WORLD OZONE DAY 2019



SEMINAR AND AWARENESS PROGRAMME

"Protect Ozone Layer - Ensure Healthy Planet"

Intercollegiate Science Quiz Competition September 25, 2019

Venue: Seminar Hall, Henry Baker College

Organized by Department of Physics



Supported by Kerala State Council for Science,
Technology and Environment (KSCSTE), Govt. of Kerala

Invitation

Dear Sir/Madam,

The Department of Physics, Henry Baker College, Melukavu is organizing a Seminar and an Intercollegiate Science Quiz Competition on 25th September 2019 in connection with International Ozone Day sponsored by Kerala State Council for Science, Technology and Environment (KSCSTE). We most cordially invite you to be apart of this event.

Thanking You,

Dr. Disha V. J.
Coordinator

Dr. G. S. Gireeshkumar
Principal

About Us

Henry Baker College, Melukavu, a Christian Minority Educational Institution, owned and managed by CSI East Kerala Diocese, was established in 1981. The college is affiliated to the Mahatma Gandhi University, Kottayam and named after Rev. Henry Baker Junior, the pioneering CMS Missionary. Our objective is to uphold the great vision and mission of Henry Baker Junior, educating the marginalised people from the darkness of ignorance to the marvellous light of knowledge.

About the Seminar

The United Nations International Day for the Preservation of the Ozone Layer is celebrated on September 16 every year to commemorate the date of signing of the Montreal Protocol in 1987. The focal theme for Ozone day 2019 is *32 Years and Healing*. This year celebrates the three decades of remarkable international cooperation to protect the ozone layer and the climate under the Montreal Protocol. To create awareness on protection of ozone layer we are organizing this event and the Intercollegiate Science Quiz Competition is focusing mainly on the focal theme and general science.

Programme Schedule

Inaugural Session	
9.45 am	: Registration
10.00 am	: Prayer
10.05 am	: Welcome
10.10 am	: Presidential address Dr. Gireeshkumar G. S. (Principal)
10.20 am	: Inauguration
10.25 am	: Vote of Thanks
Session II	
10.30 am	: Invited Lecture Dr. Ajith James Jose Assistant Professor in Chemistry St. Bernhards College Changanacherry.
Topic	: 32 Years and Healing
Session III	
12.00	: Intercollegiate Science Quiz Preliminary round
1.00 pm	: Lunch Break
1.30 pm	: Intercollegiate Science Quiz Final Round
3.30 pm	: Prize Distribution

4. National Science day

National Science Day 2020 was observed by Department of Physics, Henry Baker College on 2nd March 2020. National Science Day 2020 was celebrated based on a particular theme 'Women in Science'. The meeting commenced with a silent prayer followed by welcome address by Dr. Jincy Devasia, highlighting the importance of National Science Day. Principal Dr. G. S. Gireesh Kumar delivered the presidential address. He detailed the role of students and teachers in popularizing science and technology. An invited lecture was conducted at seminar hall around 10 am. The resource person was Dr. Sumesh George from Department of Physics, St. George's College, Aruvithura. He delivered a lecture on the topic 'Women who changed Science and the World'. In his lecture he narrated the contribution of famous women in various field of science. This was followed by Powerpoint Presentation by our students based on the topic 'Nobel Prize 2019'. Mr. Joe P Thomson, Ms. Nithyamol Mathews and Ms. Chippy Jayamon of II B. Sc Physics introduced the topics 'Nobel Prize in Chemistry 2019', 'Nobel Prize in Physics 2019' and 'Nobel prize 2019-an overview' respectively



Presidential address by Dr. Gireeshkumar G S



Invited lecture by Dr. Sumesh George.



'Nobel Prize in Chemistry 2019' by Joe P Thomson.



‘Nobel Prize in Physics 2019’ by Nithyamol Mathews.

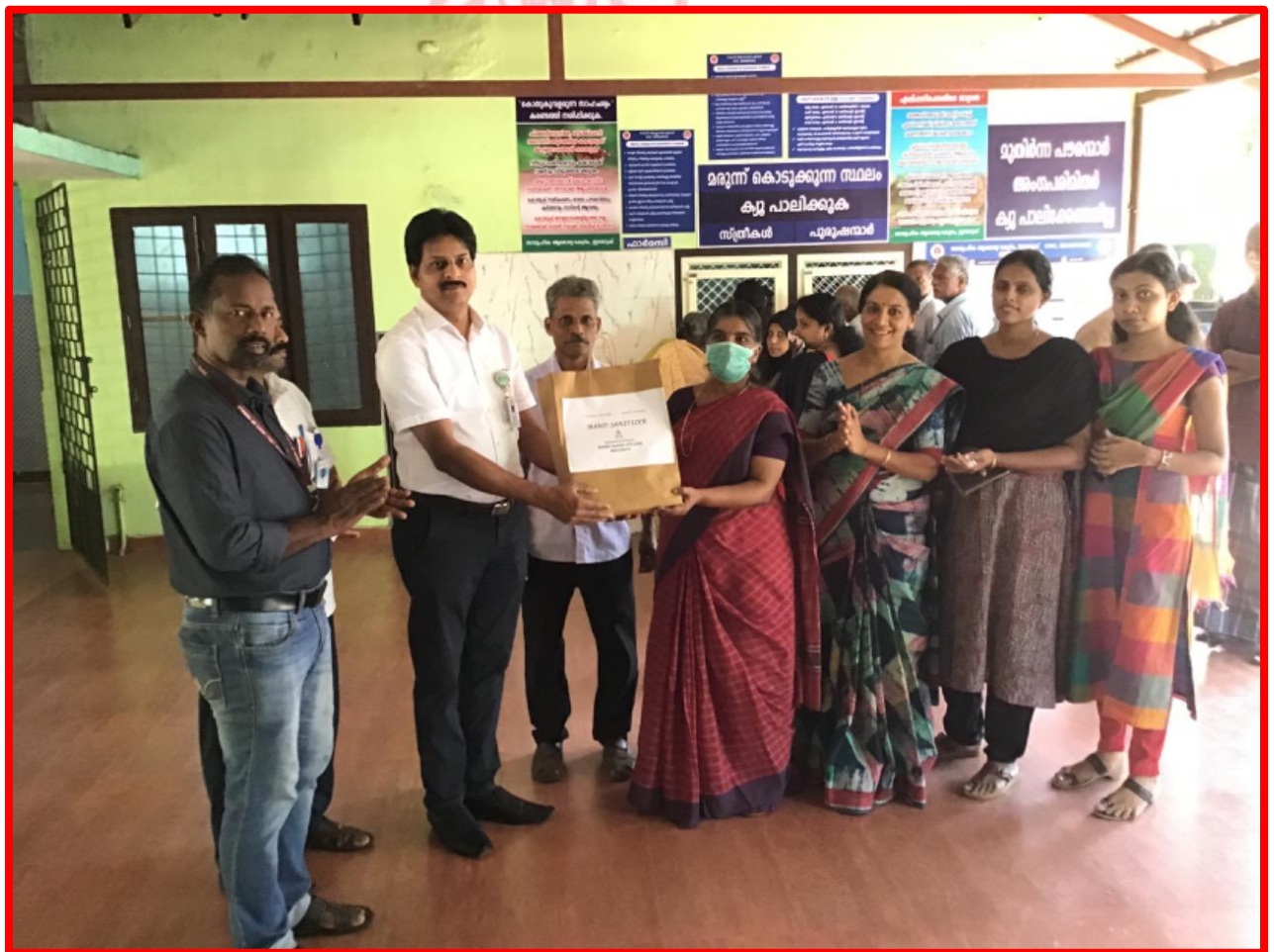


‘Nobel prize 2019-an overview’ by Chippy Jayamon

4. Break the Chain Campaign

As WHO declared Covid-19 as pandemic, Kerala State Govt. is taking important measures to stop the spread of corona virus. In order to meet the increasing demand of hand sanitizers locally, the teachers and students of Department of Physics, Henry Baker College, came forward to produce alcohol based hand sanitizers and distributed among the general public. The production is more significant at this time as there is scarcity of hand sanitizer in the

the Covid 19. The Department of physics provided hand sanitizers to all students and teachers while they enter the College. It is a timely effort as many students are utilizing this opportunity as they come for the M. G University examination. This venture boosted up the confidence among them as most of the students use public transport for their conveyance. As a social responsibility activity we handed over 100 bottles (100 mL each) of sanitizers to medical officer, Dr. Sarala of community health centre, Edamaruku, Kottayam district at free of cost on 17/03/2020. We also supplied hand sanitizers to State Bank of India, Melukavumattom and Melukavu Service Cooperative Bank, Melukavumattom.



Handing over ceremony of hand sanitizers to Dr. Sarala, medical officer, Edamaruku by our Principal, Dr. G. S. Gireeshkumar



Handing over ceremony of hand sanitizers to the Melukavu Service Cooperative bank, by the Principal, Dr. G. S. Gireeshkumar

