

REPORT ON ONLINE LIVE TALK -08-01-2020

An online live talk was conducted by the Basic Science and Humanities Department on "THE ROLE OF CHEMISTRY IN ENGINEERING" for the first semester students of SSET on January 8th 2021.



SCMS SCHOOL OF ENGINEERING AND TECHNOLOGY
Vidya Nagar, Palissery, Karukutty, Kerala-683576, Ph No: 0484 2882900

Department of Basic Science and Humanities

Online live talk on

THE ROLE OF CHEMISTRY IN ENGINEERING



Dr. June Cyriac,
Assistant Professor,
Department of Chemistry,
SH College, Thevara.

Google Meet

Date: 08th January, 2021
Time: 5:30 pm to 7:00 pm



Coordinator
Ms. Reshma R.
9446768907

Break
the
chain
www.breakthechain.com

Topic: ROLE OF CHEMISTRY IN ENGINEERING

Date: 8TH JANUARY , 2021

Time: 05:30 PM to 7: 00 PM

Resource person: Dr . JUNE CYRIAC,

Asst Professor ,

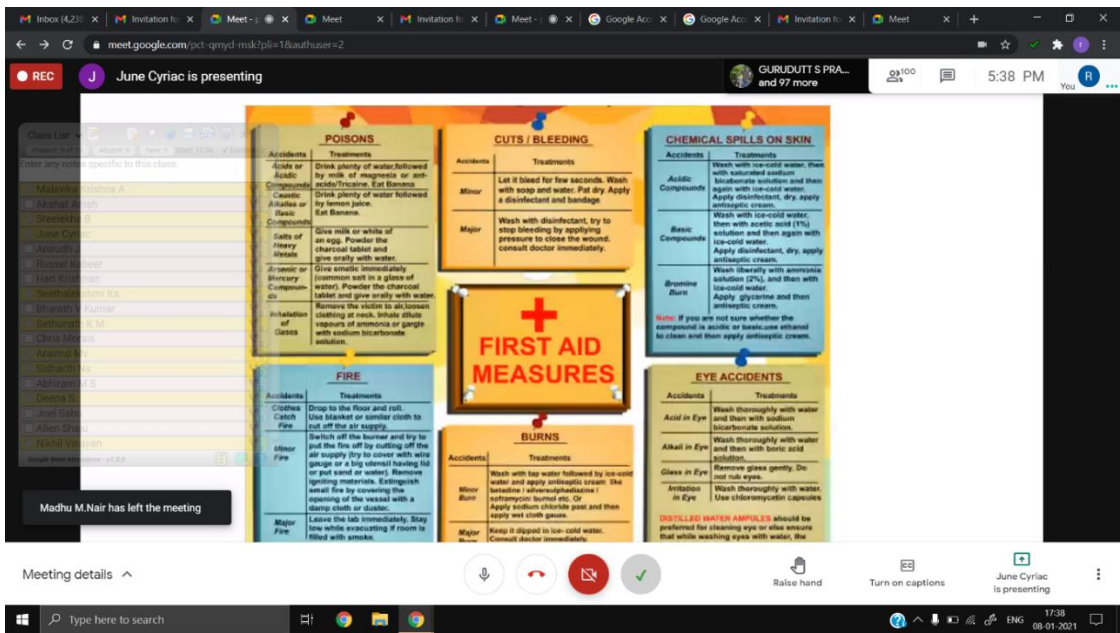
Department of Chemistry

S .H COLLEGE THEVARA

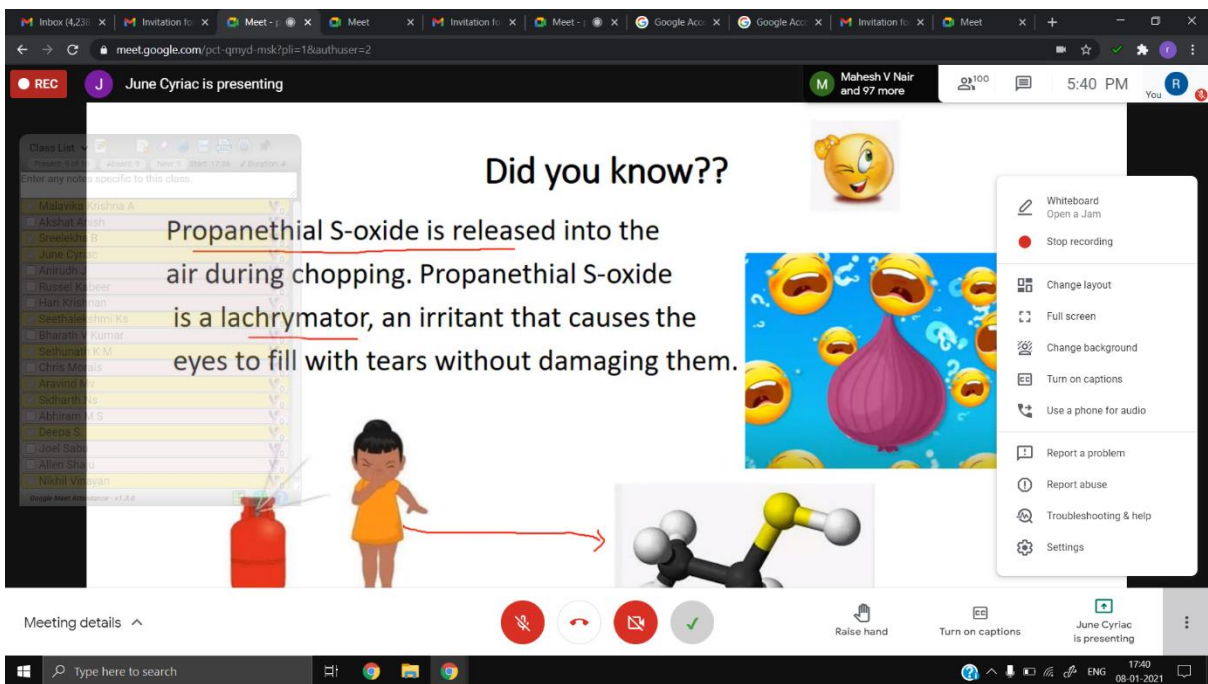
The online talk was conducted in Google PLATFORM . Students of first semester of various branches registered for the online talk . The talk was open to first semester B.Tech students of various streams and students of M. TECH Environmental Engineering too participated for the online live talk, Dr. Mini Tom welcomed the resource person . The online talk emphasised two areas namely the chemistry in everyday life and around people and the role of chemistry in the field of engineering . The talk highlighted on the the different aspects of safety measures in the day to life situations

Chemistry and basic sciences in general are not cultural complements but form a truly important basis in order to produce a work force of versatile and open minded engineering professionals, able to adapt to scientific and technological innovations. It is important to design the programs with relevant chemistry subjects for the integral education of the students, with a real link to the engineering subjects.

The life of chemistry was analysed as a need and as a tool to tackle all the problems related to Engineering . The speaker related the symbolic representations related to chemistry to apply in the real life situations . First Aid measures were generally explained to overcome certain accidents met in the daily life situations and make practical solutions for the problems met in one's life.



The classification of soaps was explained in a beautiful animation form . the classification of soaps based on high quality and low quality were explained to the participants. The classification of soaps were done on the basis of total fatty maker (TFM). The discrimination between high quality and low quality soaps were explained . Synthetic detergents and non biodegradable substances causing environmental issues were analysed.



Dive in Chemistry in Engineering

- A Civil Engineer must know about the nature of soil, rocks, concrete, steel etc.
- An Electronic or Electrical engineer must know about electrons, conduction, magnetic nature etc.
- A Mechanical engineer has to have idea about materials and fuels for better efficiency.
- An Aeronautical engineer must have to think about a material which is lighter yet stronger so that it can fly easily in space, hence alloys are

Meeting details: People (100), Chat

Chat messages:

- Sreelekha B 5:49 PM: All the students are requested to mute audio and video. Any queries related to the webinar can be posted in the chat box.
- Melvin C Joshy 6:25 PM: How much is chemistry involved in automobile engineering and is it beneficial to learn chemical engineering after automobile engineering??

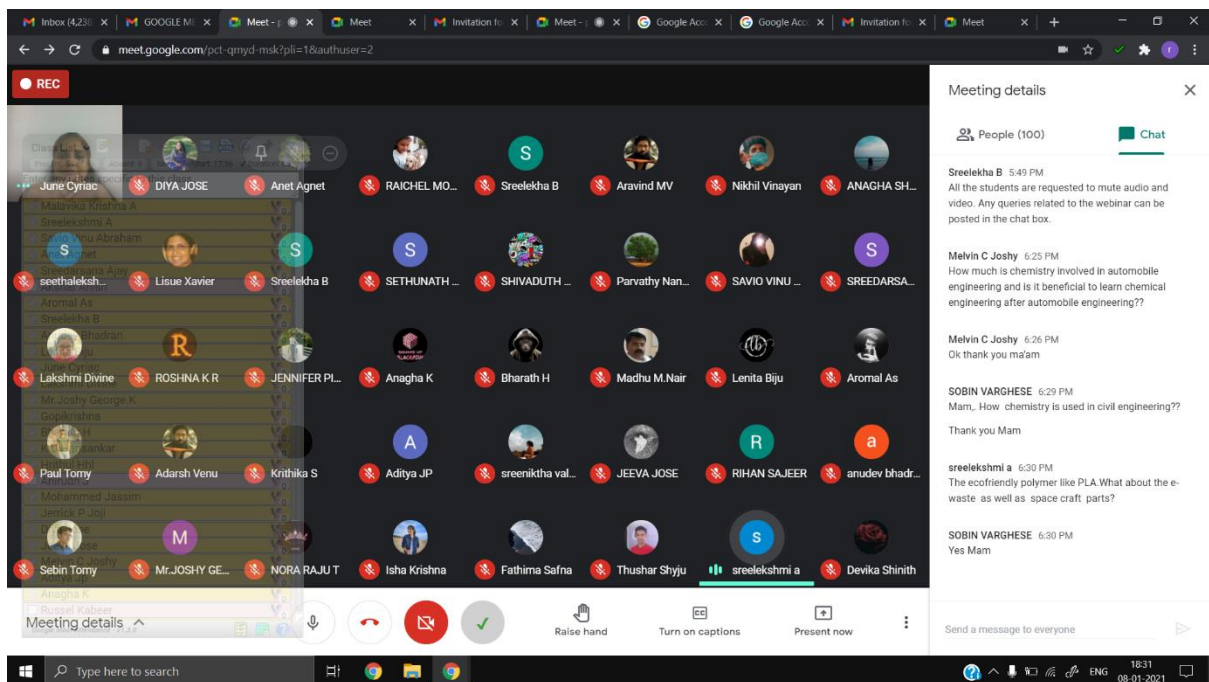
The use of chemistry in future for finding new ways to maintain the environment, preserve food and get the solution of many incurable diseases like Corona and overcome the pollution rate. The necessity of Chemistry in yielding crop and food production was the key point. The effective use of Pharmaceutical pesticides to destroy harmful insects was the basic need for the agricultural production. The structure of conducting polymers were explained and the materials required for the making a conducting polymer were envisaged. The use of Poly Lactic Acid (PLA) as an eco-friendly polymer and the bio medical polymers in the medicine field were also explained.

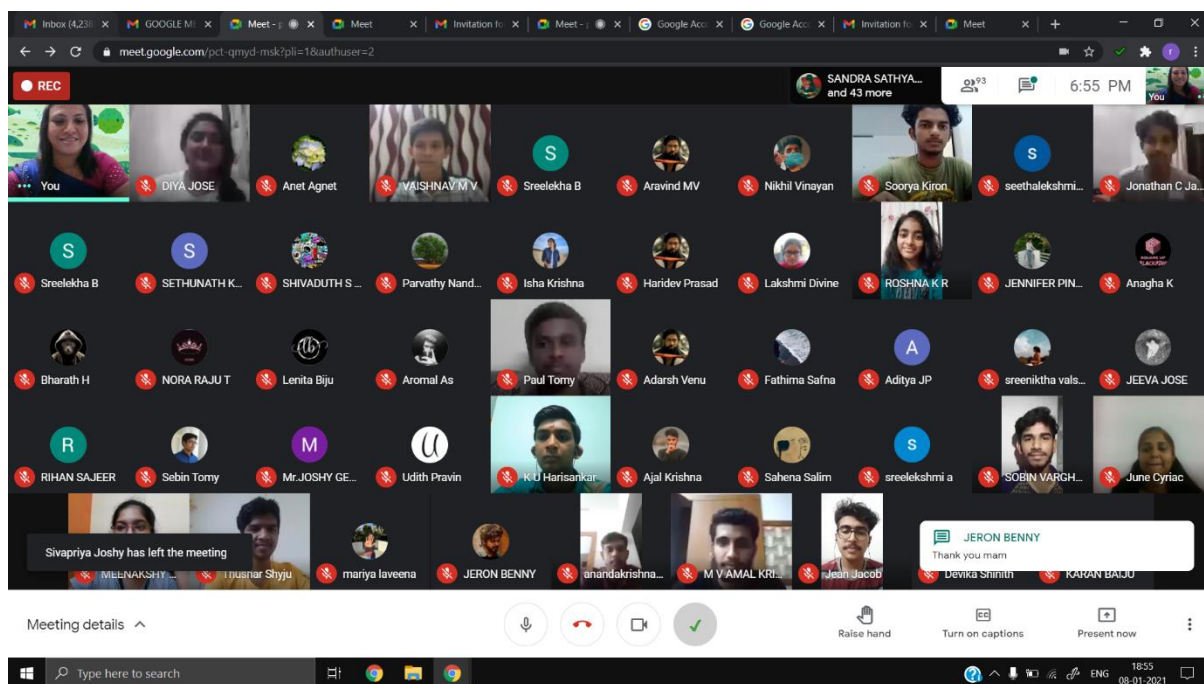
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The emerging trends of Nano Technology were explained and the the chemistry related to the Engineering Structures were related to the Nano Composite in the field of Automobile Engineering . The advantages of Nano materials as a Heat Transfer Enhancement , Solar Thermal Energy Conservation, application of Nano Fluids in oil wells and the use of Nano technology in Cancer treatment was effectively explained. The students asked thought provoking questions in the feedback session .The overall participation was overwhelmed with responses from the students .





The session concluded with the photo session of the participants. The students suggested strong feedbacks for the positive use of Chemistry in life and their field of study. The online talk on the Role of Chemistry in Engineering envisaged the importance of chemistry in the academics not only as a subject but influencing the practical issues and matters in our daily life and in engineering due to which we cannot ignore it in any aspect of our life. Most of the engineering depends upon chemistry but we are not so aware of it. There should be a subject of chemistry in one of the middle semesters of engineering to promote the knowledge of chemistry in students. So, that they can apply chemistry theories in their practical life situations and analyse and synthesis Chemistry in whole sphere of life.