## International Webinar on

## 'Novel ways to improve Li-ion batteries'

05-12-2020

The Department of Physics, St. Joseph's College (Autonomous) Irinjalakuda conducted an International webinar 'Novel ways to improve Li-ion batteries' on 5<sup>th</sup>December, 2020 at 6 pm in the evening via Google Meet. It was organised in association with the Research Cell of the college.

The webinar commenced with the Head of the Department, Ms. Mary Gisby Poulose welcoming the gathering. Dr. Benoy Anand, Assistant Professor in Physics introduced the resource person of the day, Prof. Apparao M. Rao to the participants. **Prof. Apparao M. Rao, R. A. Bowen Professor of Physics, Department of Physics & Astronomy, Director- Clemson Nanomaterials Institute, Clemson University, South Carolina, USA delivered an invited lecture on the topic 'Novel ways to improve Li-ion batteries'.** 

The session began with Prof. Apparao explaining the need and benefits of storage batteries in the present scenario. The lecture highlighted the recent advances in Lithium ion batteries and the relevance of green energy solutions in today's world. He also spoke about how diffusion length and mobility of charge carriers change when structure changes from 3D to quantum dots.

Around 120 participants-students, research scholars and faculty members- from various colleges and universities all over India participated in the webinar. Towards the end of the session, the resource person shared his experiences on how to prep oneself for a career in Research and how research is actually wide-ranging, rewarding, stimulating and engaging.

At the end of the talk, the participants were invited to share their questions and they had an interactive session with Prof. Apparao. The participants also gave a very good feedback about the webinar and about the conduct of the programme. At the end, third year undergraduate student Lakshmy K. offered the vote of thanks to formally conclude the session. All the participants were provided with e-certificates for participation.







