

GUITAR EVENT REPORT

Name of activity: Fundamental of Lithium-ion Battery and Electric Vehicle

Nature of the Activity: Webinar by Dr. Satyam Panchal, Adjunct Professor, University of Waterloo, Canada

Date, Time and Venue of the Activity: 06/06/2020, 08:00 to 09:00 A.M., GSFC University

Organized by: GSFC University Innovation, Incubation, Technology and Applied Research Centre (GUITAR)

Number of participants for the event: 48

Speaker Profile: Dr. Satyam currently works as "Adjunct Professor" in the Department of Mechanical and Mechatronics Engineering at University of Waterloo (UW), Ontario, Canada. His research area is thermal management of lithium-ion batteries for electric vehicles (EVs) and hybrid electric vehicles (HEVs). He is currently working a project called "Battery life cycle management for Ford Escape PHEV and EV" and the project is supported by Transport Canada. He is also actively working on the research area of "lithium-ion battery thermal, degradation, electrochemical, and CFD modeling. For battery pack testing and modeling, he also worked at Green and Intelligent Automotive (GAIA) lab at Univ. of Waterloo. He has published more than 25 refereed articles in highly reputable international journals. He is also a member of Professional Engineers Ontario (PEO) in Canada since 2016. Additionally, Dr. Panchal is also an excellent teacher and won 5 awards in consecutive years for teaching excellence at Univ. of Waterloo

Major discussions in event:

- Battery Types
- Battery units
- Lithium-ion battery fundamentals
- Lithium-ion battery types, shape and size and its application

- Lithium-ion battery usage in Car
- Lithium-ion battery pack design, modeling
- Ongoing research on Eclectic Vehicle

Learning Outcomes for the Activity: Participants understand the fundamentals of Lithium-ion battery and its usage in the Car.

How will it be useful for students/School/Universities: Lithium-ion battery is now essential part of human life. Its construction, shape, size, charging-discharging, temperate, usage in vehicle and its performance are need to be understand to applied in the product development and usage.

Webinar Photos:



