Knowledge Exchange Symposium on E-mobility

on

28th October 2019

at

Mascot Hotel, Thiruvananthapuram

Jointly organized by



Department of Transport and Higher Education
Govt. of Kerala.



United Kingdom



APJ Abdul Kalam Technological University Kerala



Sree Chitra Thirunal College of Engineering Thiruvananthapuram, Kerala

About the Symposium

The climate change is one of the biggest challenges we face, environmentally, economically and socially. The air pollution from road transport is a significant contributor to global warming. The transition to a low carbon economy, in particular the development and progressive deployment of zero emission vehicles, brings real economic, health and environmental benefits for all, and better spatial planning and strategic investments with green public procurement. Government world over are pondering on how to implement transition from fossil fuel vehicle to E vehicles. The Government of Kerala has announced an Electric Vehicle (EV) policy for the state. One target is to procure 6,000 electric buses for the State Road Transport Corporation by 2025. Other vehicles powered by electricity are to be progressively phased in. Charging stations will be set up. Use of E-rickshaws is to be expanded through state-owned Kerala Automobiles Ltd. Subsidies and other incentives would be given, from both central and state Governments.

In this regard, Govt. of Kerala has initiated a number of steps for interactions with academia, research and industry in India and abroad, and general public to find ways for effective implementation and for finding solutions which may be most suitable for Kerala. The symposium brings together people from different organizations and Government to discuss this issue.

This symposium is jointly organized by Department of Transport and Higher Education Govt. of Kerala, APJ Abdul Kalam Technological University and Sree Chitra Thirunal College of Engineering, Thiruvananthapuram

Salient features of the symposium:

- M o U between Birmingham City University, APJ Abdul Kalam Technological University and Sree Chitra Thirunal College of Engineering
- · Presentations by Govt. of Kerala officials
- Presentations by representatives of Industries/MNCs
- Presentations by faculty / research of Birmingham City University and Sree Chitra Thirunal College of Engineering faculty/researchers

Programos

9:00 am - 09:30 am

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Registration (A)

9:30 am - 11:00 am

Inaugural Session

Prayer

Welcome

Sri. K R Jyothilal IAS

Principal Secretary, Transport

Government of Kerala

Presidential Address :

Dr. Usha Titus IAS

Principal Secretary, Higher Education

Government of Kerala

Inauguration

Sri. A K Saseendran

Hon'ble Minister for Transport

Government of Kerala

Exchange of MOU

VC- KTU, VC- BCU, Princpal -SCTCE

Setting the Agenda

Dr. K Prabhakaran Nair

Principal, SCTCE

Keynote Address

Prof. Julian Beer

Deputy Vice Chancellor, BCU

Vote of Thanks

Prof. M R Sarathchandradas

Dean PG Studies SCTCE

11:00 am - 11:30 am

Tea Break

11:30 am -11:50 am

Perspectives on International Collaborations Dr. Rajasree M S

Hon'ble Vice Chancellor, APJ Abdul Kalam Technological University,

Presentations by Public Sector undertakings, Com-

1130-12:00	Sri. Joseph V.K., Chief Engineer, Renewable Energy Division, KSEB - Kerala Indiana.
12300 -1230	Sri. A. M. Nanayanan, Senior Energy Consultant, EMC - Salient features of L
1210-1220	Col. Shaji M Varghese, MD, KEL - Industrial transition for Electro mobility
12:20-12:30	Smt. TR Hemalatha, MD. KELTRON - Charging infrastructure & hattery
12:30-12:40	Sri. Chandrasekar V., Associate Director, CDAC - Power Electronics required for X-EV & fixed a li-
1240-1250	Sri Shajahan Ahamed Kunju, MD, KAL - Sustainable development for E-mobility
01:30-01:00	Sri. Vijayan Nandalan, Entuple E-Mobility - Advances in electrical vehicle technology & its development requirement in India

Project Presentations by BCU, United Kingdom

02:00 -02:10	Dr. Panagiotis Rentzelas, BCU - Psychological and social factors influencing new technology/E-Mobility
	adaptation
0210-0220	Dr. Venkatesh Vijay, BCU - Engineering the Future of E-Mobility: Knowledge Based Engineering (KBE)

at the Centre of E-Mobility Technologies.

Lunch Break

01:00-02:00

02:20-02:30 Professor Chambour Athwal, BCU - Academic and Associate Dean (BCU); Digital Revolution for Manufactioning

02:30-02:40 Professor Alison Honour, BCU - STEAM as a new methodology

02.40-0250 Professor Makhan Singh - Magnesium Light Weighting

Project Presentations by SCTCE

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03:00-03:10	Dr. K. Prabhakaran Nair	
03:10-03:20	Dr. Mohan G, DST-NFTDC Research Project on Metal Hydride Based I tydrogen Storage and Sorption Cooling Systems	1
0320-0330	Dr. Prakash U. Fuel Cell two Wheeler	
03:30-03:40	Sri. Sajith Sethu, Security Design for Vehicular Communication Applications	1
03:40-03:50	Dr. Roby Philip, Integration of nenewable energy for office/workplace charging stations	
03:50-04:00	Sri Chitrakumar V K, Experimental Analysis of Pulsating Heat Pipe Rused Thornal	
	Management System for Motor Cooling in Electric Vehicles	
04:00-04:10	Dr. Shogia M.K., Holographic data storage & security application	

04:10-04:20 Dr. Ramesh Kumar R - Bamboo framed structure for Transport vehicles

04:20-04:45 Tea Break

0445-0545 Meeting to identify the area of collaboration, formulate and review draft McAs between Han'ble Minister for Transport, Principal Secretary to Transport, Principal Secretary to Higher Education, Representatives of BCU, KTU & SCTCE

06:00-07:30 Cultural Programmes

07:30-09:00 Dinner