

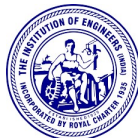
The Institution of Engineers (India)

AN ISO 9001 : 2008 CERTIFIED ORGANISATION
(Established 1920, Incorporated by Royal Charter 1935)

SILCHAR LOCAL CENTRE

Trunk Road, Silchar - 788 001, Assam, India

Er. G Dutta Choudhury, MIE
Chairman
Er. B Purkayastha, MIE
Hony. Secretary



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A Century of Service to the Nation

ACTIVITY REPORT

A BRIEF REPORT OF CELEBRATION OF 54th ENGINEER'S DAY

Theme: "Engineers for Skill Development & Employment in combating COVID".

The 54th Engineer's Day was observed **virtually** at Silchar Local Centre of The Institution of Engineers (India) on 15th September 2021 through Google Meet to commemorate the birth day of Sir Mukshagundam Visvesvarayya as per the programme enlightened in the invitation letter. The inauguration of the ceremony was started with e-diya lighting. The meeting was presided over by Er. Gautam Dutta Choudhury, Chairman, of the Silchar Local Centre. The Chief guest of the function was Er. Ashutosh Chakraverty, Past Chairman, Silchar Local Centre and the Guest of Honour was Professor Satyabrata Choudhury, Civil Engineering, NIT, Silchar.

Prof. Ashim Kanti Dey, from Civil Engineering deptt., NIT, Silchar also a fellow member of IE(I), Silchar Local Centre was the key Note Speaker on the Theme.

At the outset, Chairman of the Centre welcomed Er. Ashtosh Chakraverty, the Chief guest & Professor Satyabrata Choudhury, the Guest of Honour, Professor Ashim Kanti Dey. The Chairman also welcomed corporate members of the IE(I), SLC, non-member practicing engineers, engineering students and researchers who registered their name for the programme attended the 54th Engineers' Day virtually through Google meet. In the welcome address, the Chairman of the local centre highlighted on the theme "Engineers for Skill Development & Employment in combating COVID". He enlightened that engineers are working for gearing up to tackle the pandemic- design and manufacture respiratory equipment for novel coronavirus which urgent demand for respiratory ventilators. The personal protective equipment (PPE) like N95 face masks, disposable gloves and surgical gowns, developing touch less sanitizer, and several technologies to resist virus. Some of the engineers in our country are engaged in combating COVID-19 with their skill and also engaged in generation of employment.

All total 47 numbers of people registered their name and attended the meeting. A short video presentation was shown on the life and achievements of Bharat Ratna Sir M. Visvesvarayya.

Er. Ashutosh Chakraverty emphasised on the present Covid-19 pandemic situation has overwhelmed the countries of the world and has jeopardized their strive for inclusive development for sustainable economic growth.

Major disruptions were faced in the education sector. A World Bank report says close to 1.6 billion students worldwide were affected due to school closures at the peak of the crisis in late March 2020. While distance learning alternatives were explored and exploited to a certain extent, they could not replace the quality of face-to-face classes, in particular when the exceptional emphasis of VET on work-based learning and acquisition of practical skills. The quality of remote learning depends greatly on the functionality of the learning platforms and tools through which programmes are delivered. The COVID-19 crisis has highlighted the absence of effective distance learning platforms.

COVID-19 pandemic has not only disrupted Skills development system but also revealed and brought to the surface problems that predated the current crisis.

All these requires urgent Governmental and Societal attentions and resolution to mitigate for a holistic and inclusive Skill Development system for a strong and efficient workforce in the country.

Er. Satyabrata Choudhury, focussed specifically on the Silchar city that there should be a public toilet at every Looking at the local needs and is the burning problem of Silchar city in the form of (i) congested roads, (ii) broken roads (iii) unplanned drainage system, (iv) non engineered constructions and (v) lack of civic facilities.

Many argue for flyover in the city. He opined that the temporary diverted traffic when finally merge, will lead to backflow. The solution appears to be a new road parallel to the existing road, of sufficient lanes. The drainage system works at simple law of flow though gradient, and once this is ensured, the problem can be solved. The IEI can highlight the per capita and per kilometer of road grant to various districts of the state and may focus on disparity, if any.

- Professor Ashim Kanti Dey delivered the power point presentation on the theme .He mentioned that the the first case of COVID-19 in India reported on January 30, 2020. As of June 9, 2020, according to Ministry of Health and and family welfare, a total of 266598 confirmed COVID-19 cases have been reported from 32 states/ union territories. He focus on various Institution- **IIT Delhi became the first academic institute -ICMR approval for PCR-based diagnostic assay-- a method to detect COVID-19 at a reduced cost.**
- **the current testing methods available are "probe-based" while the one developed by the IIT team is a "probe-free" method**
- **IIT Guwahati startup has developed drones for spraying disinfectant in public spaces to prevent the coronavirus**
- **A "digital stethoscope" developed by IIT Bombay, that can listen to heartbeats from a distance and record them, minimising the risk of healthcare professionals**
- IIT Guwahati developed bamboo hospital furniture , 200 beds per day production
- IIT Kanpur developed low cost ventilators Rs. 70000 against Rs. 4.0 lakh
- Two students of the Jadavpur University have developed an intelligent device which will analyse if a coughing person is a Covid-19 carrier.
- NIT Silchar
- Development of a Quarantined Patient Health and Location Tracking System with GUI support
- To monitor patient health data, access the data remotely using a GUI based web application and real-time tracking patient's location
- The device includes a GPS module for triangulating the location of the patient, Temperature and ECG Sensors for collecting health data and a microcontroller for processing and transmitting the data wirelessly to the server.
- The system also facilitates the real-time tracking of the patient's location

IIT Kanpur developed –

- Fuel cell based oxygen generator and ventilator
- SWASA N95 MASK – nonwoven polypropylene based 3 – 4 layers

IIT Kanpur

- Fuel cell based oxygen generator and ventilator



- SWASA N95 MASK – nonwoven polypropylene based 3 – 4 layers



He also pointed out that inspite of affect of COVID-19,

- Construction industry has not stopped working
- Work is slowed down
- IT industries preferred work from home
- Demand will be very high in post Covid era
- demand in 2021 are Artificial Intelligence, Machine Learning, Data Science, Cloud computing, Digital Marketing, Data engineering, and Information security.
- Job opportunity in Robotics, Healthcare, Digital Marketing and Alternate Energy Sources will soon occupy the top heap of the available opportunities
- A massive demand for skilled professionals in domains like Business Analytics, Data Science, Machine Learning, Artificial Intelligence, Cybersecurity, Digital Marketing, & Design
- Vaccine related work has been increased manifold
- Total number of vaccinated people in India 75.89 crore as per MoHFW .

The meeting was convened by Er. Rajeeb Dey. At the end of the programme, Er. Biswajit Purkayastha, Honorary Secretary of the SLC offered the vote of thanks to the electronic-audience. The celebration came to an end with the National Anthem

PROGRAMME

4:00 pm : Inauguration of the ceremony with e-diya lighting

4:03 pm : Welcome Address by the Chairman

4:07 pm : Short video presentation on the life and achievements of Bharat Ratna Sir M. Visvesvaraya

4:10 pm : Address by the Dignitaries

4:20 pm : Technical Session Presentation on the theme "Engineers for Skill Development & Employment in Combating COVID"

4:50 pm : Vote of Thanks by Hony. Secretary

4:55 pm : National Anthem

The Institution of Engineers (India)

SILCHAR LOCAL CENTRE : SILCHAR

Request the pleasure of your gracious presence in the celebration of
54th Engineers' Day 2021
to commemorate the birthday of
Bharat Ratna Sir Mokshagundam Visvesvaraya
On **15th September, 2021 (Wednesday)**
will be held virtually through Google Meet platform
from 04:00 pm as per programme.

Er. Ashutosh Chakraverty, Past Chairman, IE(I) Silchar Local Centre has kindly consented to grace the occasion as **Chief Guest**, and
Prof. Satyabrata Choudhury, Professor Civil Engineering, NIT Silchar has kindly consented to grace the occasion as **Guest of Honour** .

Registration Link: <https://forms.gle/RGjaMtFdpHwdfH6L9>

Google Meet Link: <https://meet.google.com/gaf-xeec-got>

Er. Gautam Dutta Choudhury
Chairman

Er. Rajeeb Dey
Convener

Er. Biswajit Purakayastha
Hony. Secretary



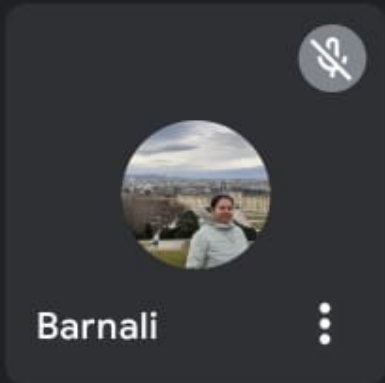
54th Engineers Day ...



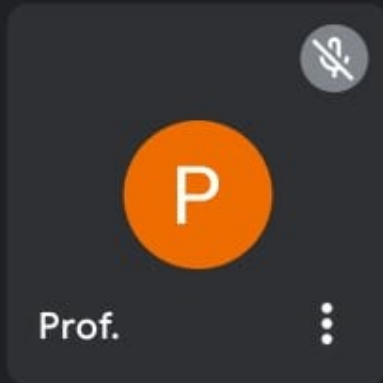
Dr.



Ashutosh



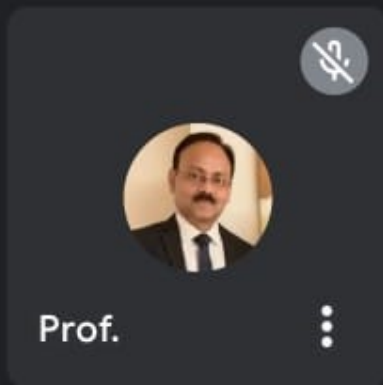
Barnali



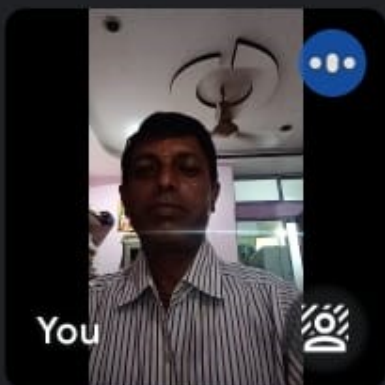
Prof.



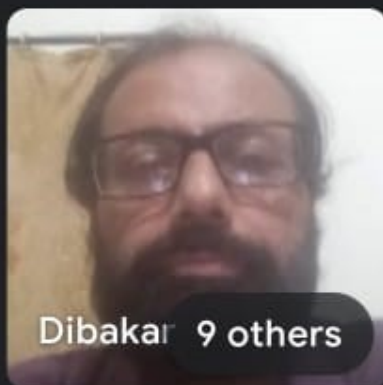
Gautam



Prof.



You



Dibakar 9 others

