

# NEWS LETTER

World Water Day Issue

**The Institution of Engineers (India)**

ASSAM STATE CENTRE

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*"A Century of Service to the Nation"*

## From Chairman's Desk

My heartiest greetings and best wishes to you all on the occasion of HOLI. The INSTITUTION OF ENGINEERS (INDIA) is a reputed and vibrant organization throughout the World. The Institution, in 1935, was incorporated by ROYAL CHARTER and remains the only professional body in India. The main responsibility is for the upliftment of Engineering and Technology. The members are to devote their knowledge for matters related to Engineering and Technology. But it is not such. The Institution of Engineers takes the social responsibilities also. The Institution of Engineers plan and work for the Common people even in interior areas.

With the above aim Immediate past Chairman Prof. S. K. Kakoty had initiated for development of a High School 'BURHA MAYANG JANAJATI HIGH', BURHA MAYANG situated at an approximate distance of 33Km from IEI. The school building (Assam type) was newly built, which was in a dilapidated condition. When it was visited initially, roof was not there. Verhanda posts were in broken stage. Under the leadership of Prof Kakoty and active interest of Er. Bhaben Kalita, with the support of members of State Committee the building has come to usable condition. This work of development to the building, the school got the opportunity to convert it into Higher Secondary School. As an out-side campus activity this year National Science Day (28.02.2022) function was celebrated at this school. Several corporate members attended this function. For managing the function the teachers of the school took utmost care under the guidance of Head master (Principal). Students also participated very actively. Several students took part in deliberations on topic of discussion. This is an encouraging case for the student of the locality. My hope the school will shine in course of time.

This issue of News Letter is being published on World Water Day. Let us hope World Water Day be a success one.

[ Prof. (Dr.) N N Patwari ]  
Chairman, IEI, ASC



## From Honorary Secretary's Desk

Dear Corporate Members,

My heartiest Greetings and best wishes to you all on this World Water Day celebration, one of the major events being organized for last many years by the Assam State Centre of Institution of Engineers(India), where Policy makers, all major Organizations working in the field of water, our corporate members, Subject Matter Specialists and Students from various Technical Institutions participate.

I am very happy to inform you that in the last quarter we have arranged 2 of Popular Talk, one on 6 th January on the Use of Bamboo as Biosteel to Construct Eco-friendly Structures at Low Cost and another one on 19 th February on Evaluation of Telecommunication & 5G at our Centre. We arranged and celebrated the National Science Day for the first time at Burha Mayang Janajati High School on 28 th February 2022. We have also celebrated World Engineering Day (WED) on 4 th March with a Workshop on focal theme Build Back Wiser-Engineering the Future. Today we are celebrating World Water Day with a day long programme. In the meantime we have also arranged one State Committee Meeting. Now one issue of our regular News Letter (22nd March, 2022 Issue) is being published today.

We are taking the repairing and retrofitting of our old building as per direction of State Committee for strengthening the structure. We are also repairing 1 room at 2nd floor and 2 rooms at ground floor for commercial activity and revenue generation. Some finishing work of the new Annexe Building also start in hand for opening it to activities as planned.

I hope, with the active support of our esteemed members more technical and other activities would be taking place now.

I am very happy that the Editorial Board of the News Letter of our Centre takes the pain to bring out the 1st issue of this year in a very short notice and I would like to congratulate them for their whole hearted and consistent effort.

Once again wish you all a very happy WORLD WATER DAY 2022.

(Er. Pulak Sarmah)  
Hony Secy, IEI-ASC



Next Issue on World Environment Day, Vol 10, No. 2

**Every gift though it be small, is in reality great, if given with affection. – Pindar**

## POPULAR TALK

Assam State Centre of the Institution of Engineers (India) organized a Popular Talk on **The Use of Bamboo as Biosteel to Construct Eco-friendly Structures at Low Cost** on 6<sup>th</sup> January, 2022 at 6:00 pm in the Golden Jubilee Lecture Hall at its premises. Er. Pulak Sarmah, Hony Secretary of Assam State Centre initiate the event by welcoming all members and introducing the Appointed Speaker, Er Manoj Kr Das, Executive Engineer, Umrangso NEC Division (PWRD), Dima Hasao and a popular Technology Enthusiastic and Inventor.

In his deliberations, Er. Manoj Kr Das spoke in detail about the processing technique of Bamboo and its use for Concreting over Bamboo Splits (COBS) and Bamboo Reinforced Cement Concreting (BRCC) to build low cost modern houses and other structures which are as strong and durable as the conventional RCC structures. Er. Manoj Kr. Das, with his vast experience in working with locally available and cheap construction materials, like Bamboo, beautifully presented a number of case studies in front of the audience. As per Er. Das, if these COBS and BRCC technologies are followed with proper specification, it would result in considerable reduction of steelwork, saving huge resources and the structure would also be lighter by weight. It is also worth mentioning that, both the COBS and BRCC technologies as invented by Er. Das had received Patent granted by Govt. of India. Members actively participated in the following discussion after the presentation of the Interesting topic.

Prof (Dr) N N Patwari, Chairman of the Assam State Centre summed up the discussion with closing remarks that, Bamboo may be used as Bio Steel for sustainable growth, promote eco-friendly environment and resource efficient construction with overall cost savings.

Er. Monojit Mishra, Jt. Hony. Secretary of the Centre proposed formal vote of thanks to the speaker and all participants on behalf of IEI-ASC.





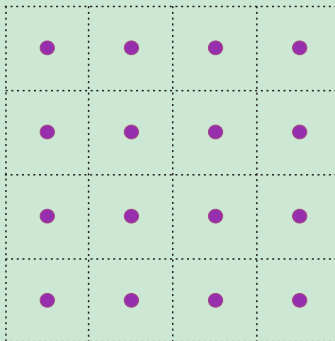
## Superannuation of Office Staff

The office assistant of the Assam State Centre of the Institution of Engineers (India), Sri Mrigen Sarma superannuated on 31st January, 2022. He joined this Centre on 16th August, 1993 and served the centre for almost three decades with all devotion and sincerity.

A farewell meeting was organised by the Centre in the Golden Jubilee Lecture Theatre on the day of his superannuation which was attended by senior members and staff of the Centre. Several members spoke on the occasion and conveyed their best wishes to him for his retired life.



By joining the points, how many squares will be there?



### Forthcoming Events

- World Telecommunications & Information Society Day : 17.05.2022
- World Environment Day : 05.06.2022
- Engineers Day : 15.09.2022

## Popular Talk on The Evolution of Telecommunication and 5G Technology

Assam State Centre of the Institution of Engineers (India), had organized a Popular Talk on the topic **The Evolution of Telecommunication and 5G Technology** on 19<sup>th</sup> February 2022 at 6:00 pm in the Golden Jubilee Lecture Theatre at its premises. Er. Pulak Sarmah, Hony. Secretary of Assam State Centre initiate the event by welcoming all members and introducing the Appointed Speaker, Er Avinna Kumar Pahi, Chief General Manager, BSNL, Assam Circle and a distinguished Technocrat.

In his deliberations, Er.A K Pahi spoke in detail about the Evolution of Tele-Communication and 5G Technology. Er. A K Pahi spoke detailed about the evolution of wireless technology from 1G to 5G. Er. Pahi in his speech emphaized that telecommunication and networking has been and will be one of the core technologies in helping the evolution of mankind and technology itself. The G in 4G or 5G stands for generation and the number is just a representation of the evolution of technology. The advancement in the field of wireless network technology is crucial to put us in an era that is driven by technology all around us.

Members actively participated in the substituted discussion after the presentation of the Interesting topic.

Prof. (Dr.) N N Patwari, Chairman of the Assam State Centre summed up the discussion with closing remarks that, there has been a lot of advancement in the field of wireless network communication over the years in terms of overall development.

Er. Pulak Sarmah MIE, Hony. Secretary of the Centre proposed formal vote of thanks to the speaker and all participants on behalf of IEI-ASC.





# NATIONAL SCIENCE DAY

National Science Day, 28<sup>th</sup> February 2022 was observed by the Institution of Engineers (India), Assam State Centre (IEI-ASC) at Bura Mayang Janajatiya High School, Raja Mayang in Morigaon District about 35 Km from Guwahati with predominantly ST students. Teachers along with the Students of the School and good number of Committee members of the State Centre as well as some Corporate Members were also present in the event. Mr. Dhireswar Saikia, Principal of the School delivered the welcome address. Mr. Pulak Sarmah, Hony. Secretary of the Centre introduced all the members of IEI-ASC present on the occasion to the audience. He also introduced the Appointed Speaker, Mr. Jayanta Kumar Sarma, a Popular Science-Motivator, Environment Activist, Member of National Children's Science Congress, NCSTC-DST-Gol and Consultant of Natural Resources Management, etc. School Authority also felicitated the Appointed Speaker and all the participating Corporate Members. Mr. Jayanta Kumar Sarma spoke in details on the theme **Integrated approach in Science & Technology for Sustainable Future**. In his speech he emphasized on the need of scientific temper and approach among the public in general and students in particular for sustainable future. He appealed for inculcating scientific mindset amongst the students. He also elaborated to the students and teachers the steps in participating at NCSC. Prof. (Dr.) S K Kakoty, Immediate Past-Chairman of the Centre elaborated the need and importance of celebration of National Science Day. He also elaborated the steps of the IEI-ASC supporting the repairing and improvement of an annexe building of the School, for which it became one of the 10 Schools in the District upgraded to Higher Secondary status this year, to accommodate increasing students. Er. B. Kalita, Past-Hony-Secretary and in-charge of the construction activities at site of Burha Mayang expressed his satisfaction over completion of the work and cooperation received from School Authority. Prof (Dr) N N Patwari, Chairman of the Assam State Centre summed up the discussion with closing remarks that, the Students should learn to observe all the happenings around them in a scientific approach and try to arrive on scientific logic by reasoning. Dr. Milanjit Bhattacharyya, Jt. Hony. Secretary of the Centre proposed formal vote of thanks to the speaker and all participants on behalf of IEI-ASC.





## POPULAR TALK

Assam State Centre of the Institution of Engineers (India) in association with the Northeast Startup Festival 2022 had organized a Workshop on the Focal Theme **“Build Back Wiser–Engineering the Future”** on the occasion of World Engineering Day on **4<sup>th</sup> March, 2022** in the Golden Jubilee Lecture Theatre Hall at its premises. Er. Pulak Sarmah, Hony Secretary of Assam State Centre, initiated the event by welcoming all the Corporate members, Engineers, participating young Entrepreneurs, Startup ventures and introducing the Appointed Speaker, Dr. Amarjyoti Kashyap, President, ENVIRON, a leading NGO of Northeast and a national award winner Environmentalist, popular Science Communicator and Inventor.

World Engineering Day (WED) for Sustainable Development is celebrated on the 4th of March every year as a UNESCO international day promoting the profile of engineers and engineering. WED is an opportunity to engage with Governments, Organizations, Universities, Industries, Media and the Community to address the need for engineers around the world to develop strategic frameworks and best practices for the implementation of engineering solutions for Sustainable Development.

In 2022, The World Federation of Engineering Organisations (WFEO) and its members and partners are hosting the HACKATHON which is an international event with a goal to involve engineering students from all over the globe in the celebration of the World Engineering Day.

In his deliberations, Dr. Amarjyoti Kashyap spoke in detail about the successful Solid Waste Management in urban area as well as rural area with some simplified ways and technology developed by him for the successful Solid Waste Management Practice, like- “Waste Assimilator” for the management of biodegradable solid waste at source; “Household Plastic Craft” to utilize plastic waste at source, “Money Earning Litterbin” for the source segregation of plastic waste and “SeujBahan” for door to door collection of segregated plastic waste etc.

Er. Pankaj Gogoi, Project Director, Northeast Startup Festival 2022 shared the Mission and Vision of Northeast Startup Festival and outlined the development of Startup Ecosystem.

Dr. Samir Baruah, Mentor of Startup Assam also shared about Startup ecosystem and how BRAIN (Brahmaputra Region Angel Investor Network) will support the ecosystem.

4(Four) Startup Groups presented their ventures and shared their ideas with the audience as a part of Hackathon.

Members present actively participated in the subsequent discussion after the presentation of their Interesting topic.

Prof (Dr) N N Patwari, Chairman of the Assam State Centre summed up the discussion with closing remarks that, every one of civil society should act responsibly and contribute for sustainable growth, promote eco-friendly environment and welcomed the young entrepreneurs to the Hackathon focus areas.



Editorial Board : Er. G N Khound FIE, Chairman

Er. M. Barkataki FIE, Convenor