



NEWSLETTER

The Institution of Engineers (India)

TRIPURA STATE CENTRE

Pandit Nehru Complex, P.O. - Kunjaban, Agartala, Tripura - 799006

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July, 2021



Er. C. Debnath, FIE
Chairman



Dr. Subhadeep Bhattacharjee, FIE
Hony. Secretary

A FEW LINES FROM IEI, TRIPURA STATE CENTRE

The present issue of the News Letter reflects the various activities of the IEI, Tripura State Centre during April – June, 2021. This time, 31st Foundation Day of IEI, Tripura State Centre (in/c the period of Agartala Local Centre) was celebrated on 1st April, 2021. A Round Table Discussion on IEI- Vision & Mission was organized followed by flag hoisting ceremony on that day. A seminar programme on 'Energy Scenario' was organized on 2nd April, 2021 jointly with the ONGC Ltd., which is undeniably a significant topic. Due to the second spike of COVID pandemic and in view of Govt regulations, physical assembly for technical programme/seminar has been adjourned and our centre has continued to organise other technical programmes through a series of web seminars (webinars) with the support of various engineering divisional committees of the centre.

The bi-monthly Webinar by the various Divisional Committee viz. (i) Computer Science and Electronics & Telecommunication Engineering, (ii) Chemical Engineering in/c Textile & Metallurgical & Material Science Engineering, (iii) Civil Engineering in/c Environmental, Architectural & Agricultural Engineering, (iv) Mechanical & Production Engineering, (v) Electrical Engineering were organized, details of which have been reflected in the activities report in this newsletter. It is pertinent to mention that all the topics and sub-topics of the webinar programmes were of great relevance in their respective engineering domain and societal engineering. All the webinars were designed with the deliberation by prominent Faculty Members / Senior Practicing Engineers and B.Tech / Post Graduate / Ph.D students in engineering. It is also worthy to be mentioned that programmes were attended by good number of participants from across the country.

IEI, Tripura State Centre sincerely acknowledges the support extended by its divisional committees and esteemed Corporate Members of IEI for making the programmes successful. The IEI News Letter of Tripura State Centre is circulated quarterly for conveying all accomplishments and information of IEI, Tripura Centre. We look forward towards suggestions from all for improvement of our activities along with our IEI News Letter. IEI, Tripura State Centre has decided to install the Statue of Bharat Ratna Sir M. Visvesvaraya in the Institution premises, which may be installed at the earliest for which appeal has been made to the Corporate Members to come forward for donation voluntarily. The Centre has also started the installation work of Lift & also trying to complete the vertical extension of G + 3 Floor in/c Auditorium for which also appeal has been made for donation voluntarily.

IEI, Tripura State Centre deeply mourns the sad and untimely demise of fellow engineers amid COVID pandemic and conveys deepest condolence to the bereaved families. IEI, Tripura State Centre wishes good health for all in this difficult period.

The Publication Committee of IEI, Tripura State Centre looks forward for suggestion / advice from all for improvement of the publication.

Er. C. Debnath, FIE
Chairman
IEI, Tripura State Centre

Dr. Subhadeep Bhattacharjee, FIE
Hony. Secretary
IEI, Tripura State Centre

Activities of IEI, Tripura State Centre during April to June, 2021

- **Report of the Celebration of 31st Foundation Day of The Institution of Engineers (India), Tripura State Centre on 1st April, 2021.**

The Institution of Engineers (India), Tripura State Centre celebrated its 31st Foundation Day programme (in/c the period of Agartala Local Centre) on 1st April, 2021 and the Flag Hoisting Ceremony was conducted at 08.30 AM on 1st April, 2021. The flag was hoisted by the Chairman of the Centre Er. C. Debnath. The Honorary Secretary, Past Chairmen, Past Honorary Secretaries and Corporate Members were also present during this ceremonial moment.



In the evening, at 06.00 P.M., a discussion on “IEI – Vision & Mission” was organized at the Conference Hall of IEI, Tripura State Centre. Prof. (Dr.) Swapan Bhaumik, FIE, Chairman, CATE, IEI made power point presentation during the discussion. Corporate Members also took part in the discussion. Er. C. Debnath, FIE, Chairman, IEI, Tripura State Centre presided over the programme. Dr. Subhadeep Bhattacharjee, FIE, Honorary Secretary, IEI, Tripura State Centre delivered the Welcome Address.

The second day programme was organized on 2nd April, 2021 & a Seminar on “Energy Scenario” was organized jointly with ONGC Ltd., Tripura Asset, Agartala. Er. S R Kumar, IAS, Principal Secretary, Power Department, Govt. of Tripura & Chairman, TSECL, Agartala inaugurated the programme by lightening lamp. Er. Tarun Malik, ED - Asset Manager, ONGC Ltd., Tripura Asset graced the occasion as Chief Guest. Er. Mahananda Debbarma, AMIE, Advisor, IEI, Tripura State Centre graced the occasion as Guest of Honour. Sri Neeraj Lal, CGM (Production), ONGC Ltd., Tripura Asset and Er. Debabrata Sukladas, Jt. Director, TREDA made power point presentation on the topic as Special Speakers.



Inauguration of the Seminar by Er. S R Kumar, IAS, Principal Secretary, Power Department, Govt. of Tripura & Chairman, TSECL



Speech by Chief Guest Er. Tarun Malik, ED - Asset Manager, ONGC Ltd., Tripura Asset

Er. C. Debnath, FIE, Chairman, IEI, Tripura State Centre presided over the programme. Dr. Subhadeep Bhattacharjee, FIE, Honorary Secretary, IEI, Tripura State Centre delivered the Welcome Address. Er. M.S. Roy, FIE, Convener of the programme, IEI, Tripura State Centre concluded the programme by offering Vote of thanks.

The Seminar was very much lively with the interactive session.

- **Report of the Webinar of Chemical Engineering Division (in/c Textile & Metallurgical & Material Science Engineering) of IEI, Tripura State Centre on 24th April, 2021.**

The Chemical Engineering Division (in/c Textile & Metallurgical & Material Science Engineering) of The Institution of Engineers (India), Tripura State Centre had organized a Webinar on 24th

April, 2021 at 05:00 P.M. through Google Meet as a part of its bi-monthly technical programme.

Er. Arnab Roy, B.Tech Student, Chemical Engineering Department, NIT Agartala made power point presentation on the topic “Comparative Study of Activated carbon Derived from various Organic Sources” and Er. Biswajit Sarkar, AMIE, M.Tech, D.B.T. Project Assistant, Department of Chemical & Polymer Engineering, Tripura University made power point presentation on the topic “Carbons for Soil Amendment” as Special Speakers.

Dr. Prasanta Kumar Rout, MIE, Co-Chairman, Chemical Engineering Division (in/c Textile & Metallurgical & Material Science Engineering), IEI, Tripura State Centre presided over the programme and Er. Harjeet Nath, AMIE, Jt. Convener, Chemical Engineering Division (in/c Textile & Metallurgical & Material Science Engineering) of IEI, Tripura State Centre delivered the Welcome Address. Dr. Subhadeep Bhattacharjee, FIE, Honorary Secretary, IEI, Tripura State Centre also spoke on the occasion.

Er. Harjeet Nath, AMIE, Jt. Convener, Chemical Engineering Division (in/c Textile & Metallurgical & Material Science Engineering) of IEI, Tripura State Centre co-ordinated the programme as moderator of the programme.

The programme was very much successful with the participation of Faculty, Students & practicing Engineers and interactive session.

- **Report of the Webinar of Computer Science and Electronics & Telecommunication Engineering Division, IEI, Tripura State Centre on 24th April, 2021.**

The Computer Science and Electronics & Telecommunication Engineering Division of The Institution of Engineers (India), Tripura State Centre had organized a Webinar on 24th April, 2021 at 06:00 P.M. through Google Meet as a part of its bi-monthly technical programme.

Dr. Suman Deb, MIE, Assistant Professor, Computer Science & Engineering Department, NIT Agartala made power point presentation on the topic “Simultaneous Localization and Mapping for indoor robot control” and Er. Sunandan Dutta, AMIE, PhD, Researcher, HiSIM Research Center, Hiroshima University, Japan made power point presentation on the topic “Advanced Motion Control of Light-Weight Robots” as Special Speakers.

Dr. Bijoy Kumar Upadhyaya, FIE, Chairman, Computer Science and Electronics & Telecommunication Engineering Division, IEI, Tripura State Centre presided over the programme and Er. Gautam Pal, MIE, Jt. Convener, Computer Science and Electronics & Telecommunication Engineering Division of IEI, Tripura State Centre delivered the Welcome Address. Dr. Subhadeep Bhattacharjee, FIE, Honorary Secretary, IEI, Tripura State Centre also spoke on the occasion.

Er. Suman Deb, MIE, Convener, Computer Science and Electronics & Telecommunication Engineering Division of IEI, Tripura State Centre and Dr. B.K. Upadhyaya, FIE, Chairman, Computer Science and Electronics & Telecommunication Engineering Division, IEI, Tripura State Centre co-ordinated the programme as moderator of the programme.

The programme was very much successful with the participation of Faculty, Students & practicing Engineers and interactive session.

- **Report of the Webinar of Civil Engineering Division (in/c Environmental, Architectural & Agricultural Engineering), IEI, Tripura State Centre on 25th April, 2021**

The Civil Engineering Division (in/c Environmental, Architectural & Agricultural Engineering) of The Institution of Engineers (India), Tripura State Centre had organized a Webinar on 25th April, 2021 at 05:00 P.M. through Google Meet as a part of its bi-monthly technical programme.

Dr. Malay Kumar Deb, FIE, Int. PE (I), Director, Civil Engineering Consultancy Services Pvt. Ltd. made power point presentation on the topic “Pile Load Tests, Issues and Concerns” and Er.

Diptesh Chanda, Ph.D Scholar, Civil Engineering Department, NIT Agartala made power point presentation on the topic “Foundations for High Rise Superstructures” as Special Speakers. Dr. Rajib Saha, AMIE, Associate Professor, Civil Engineering Department, NIT Agartala delivered the Keynote speech.

Er. R.K. Majumder, FIE, Advisor, Civil Engineering Division (in/c Environmental, Architectural & Agricultural Engineering), IEI, Tripura State Centre presided over the programme and Er. Pankaj Sutradhar, FIE, Convener, Civil Engineering Division (in/c Environmental, Architectural & Agricultural Engineering) of IEI, Tripura State Centre delivered the Welcome Address. Dr. Subhadeep Bhattacharjee, FIE, Honorary Secretary, IEI, Tripura State Centre also spoke on the occasion.

Er. Diptesh Chanda, Ph.D Scholar, Civil Engineering Department, NIT Agartala co-ordinated the programme as moderator of the programme.

The programme was very much successful with the participation of Faculty, Students & practicing Engineers and interactive session.

- **Report of the Webinar of Mechanical & Production Engineering Division, IEI, Tripura State Centre on 2nd May, 2021.**

The Mechanical & Production Engineering Division of The Institution of Engineers (India), Tripura State Centre had organized a Webinar on 2nd May, 2021 at 05:00 P.M. through Google Meet as a part of it's bi-monthly technical programme.

Er. Sukanta Das, Assistant Professor, Mechanical Engineering Department, Tripura Institute of Technology, Narsingarh made power point presentation on the topic “Performance Study of an Inclined Bubbling Fluidized Bed Dryer during Cashew Nut Drying” and Er. Abhiman Debnath, PhD Scholar, Department of Production Engineering, NIT Agartala made power point presentation on the topic “Multi Criteria Decision Making - A case study.

Prof. (Dr.) Sekhar Datta, FIE, Chairman, Mechanical and Production Engineering Division, IEI, Tripura State Centre presided over the programme and Er. Sujoy Kar, MIE, Convener, Mechanical and Production Engineering Division of IEI, Tripura State Centre delivered the Welcome Address. Dr. Subhadeep Bhattacharjee, FIE, Honorary Secretary, IEI, Tripura State Centre and Er. C. Debnath, FIE, Chairman, IEI, Tripura State Centre also spoke on the occasion.

Er. Pushparenu Bhattacharjee, AMIE, Assistant Professor, Production Engineering Department, NIT Agartala co-ordinated the programme as moderator of the programme.

The programme was very much successful with the participation of Faculty, Students & practicing Engineers and interactive session.

- **Report of the Webinar of Electrical Engineering Division, IEI, Tripura State Centre on 15th May, 2021.**

The Electrical Engineering Division of The Institution of Engineers (India), Tripura State Centre had organized a Webinar on 15th May, 2021 at 05:00 P.M. through Google Meet as a part of it's bimonthly technical programme.

Dr. Debashish Bhowmik, Assistant Professor, Electrical Engineering Department, Tripura Institute of Technology, Narsingarh made power point presentation on the topic “Power System Economics including Power Market” and Er. Arnab Pal, PhD Scholar, Department of Electrical Engineering, NIT Agartala made power point presentation on the topic “Placement of Electric Vehicle Charging Station in Distribution Network”.

Prof. (Dr.) Priyanath Das, FIE, Chairman, Electrical Engineering Division, IEI, Tripura State Centre presided over the programme and Dr. Tirtharaj Sen, FIE, Convener, Electrical Engineering Division

of IEI, Tripura State Centre delivered the Welcome Address. Dr. Subhadeep Bhattacharjee, FIE, Honorary Secretary, IEI, Tripura State Centre and Er. C. Debnath, FIE, Chairman, IEI, Tripura State Centre also spoke on the occasion.

Er. Dhritiman Adhya, AMIE, Ph.D Scholar, Department of Electrical Engineering, NIT Agartala co-ordinated the programme as moderator of the programme.

The programme was very much successful with the participation of Faculty, Students & practicing Engineers and interactive session.

- **Report of the Webinar of Computer Science and Electronics & Telecommunication Engineering Division, IEI, Tripura State Centre on 6th June, 2021.**

The Computer Science and Electronics & Telecommunication Engineering Division of The Institution of Engineers (India), Tripura State Centre had organized a Webinar on 6th June, 2021 at 05:00 P.M. through Google Meet as a part of it's bi-monthly technical programme.

Dr. Subhrajyoti Deb, AMIE, Assistant Professor, Information Technology Department, Anurag University, Hyderabad made power point presentation on the topic "Research Paper Writing using Overleaf" and Er. Mahua Chakraborty, Student, M.Tech, Department of Electronics & Communication Engineering, Tripura University made power point presentation on the topic "Introduction of Machine Learning in Optical Fiber Communication system" as Special Speakers.

Dr. Bijoy Kumar Upadhyaya, FIE, Chairman, Computer Science and Electronics & Telecommunication Engineering Division, IEI, Tripura State Centre presided over the programme and Dr. Suman Deb, MIE, Convener, Computer Science and Electronics & Telecommunication Engineering Division of IEI, Tripura State Centre delivered the Welcome Address. Prof. (Dr.) T.S. Kamal, FIE, Chairman, Electronics & Telecommunication Engineering Division Board, IEI; Er. Tapas Bhattacharya, MIE, Advisor, Computer Science and Electronics & Telecommunication Engineering Division of IEI, Tripura State Centre; Dr. Subhadeep Bhattacharjee, FIE, Honorary Secretary, IEI, Tripura State Centre and Er. C. Debnath, FIE, Chairman, IEI, Tripura State Centre also spoke on the occasion.

Er. Suman Deb, MIE, Convener, Computer Science and Electronics & Telecommunication Engineering Division of IEI, Tripura State Centre and Dr. Mrinal Kanti Debbarma, MIE, Co-Chairman, Computer Science and Electronics & Telecommunication Engineering Division, IEI, Tripura State Centre co-ordinated the programme as moderator of the programme.

The programme was very much successful with the participation of Faculty, Students & practicing Engineers and interactive session

- **Report of the Webinar of Chemical Engineering Division (in/c Textile & Metallurgical & Material Science Engineering) of IEI, Tripura State Centre on 19th June, 2021.**

The Chemical Engineering Division (in/c Textile & Metallurgical & Material Science Engineering) of The Institution of Engineers (India), Tripura State Centre had organized a Webinar on 19th June, 2021 at 05:00 P.M. through Google Meet as a part of it's bi-monthly technical programme.

Er. Harjeet Nath, AMIE, Assistant Professor, Department of Chemical & Polymer Engineering, Tripura University made power point presentation on the topic "An overview of current air pollution scenario and current advancements in the field of renewable energy generation techniques" and Er. Joydeep Das, PhD Scholar, Department of Chemical Engineering, NIT Agartala made power point presentation on the topic "Depollution of rubber processing industry effluent using Moringa Oleifera and Pseudomonas sp. Bacteria: A comparison study" as Special Speakers.

Dr. Bibhab Kumar Lodh, MIE, Convener, Chemical Engineering Division (in/c Textile & Metallurgical & Material Science Engineering), IEI, Tripura State Centre presided over the programme and Dr. Srimanta Ray, MIE, Chairman, Chemical Engineering Division (in/c Textile & Metallurgical &

Material Science Engineering), IEI, Tripura State Centre delivered the Welcome Address. Er. R. Dasgupta, FIE, Advisor, Chemical Engineering Division (in/c Textile & Metallurgical & Material Science Engineering) of IEI, Tripura State Centre; Dr. Subhadeep Bhattacharjee, FIE, Honorary Secretary, IEI, Tripura State Centre and Er. C. Debnath, FIE, Chairman, IEI, Tripura State Centre also spoke on the occasion.

Dr. Mriganka Sekhar Manna, MIE, Member, Chemical Engineering Division (in/c Textile & Metallurgical & Material Science Engineering), IEI, Tripura State Centre co-ordinated the programme as moderator of the programme.

The programme was very much successful with the participation of Faculty, Students & practicing Engineers and interactive session

- **Report of the Webinar of Civil Engineering Division (in/c Environmental, Architectural & Agricultural Engineering), IEI, Tripura State Centre on 26th June, 2021.**

The Civil Engineering Division (in/c Environmental, Architectural & Agricultural Engineering) of The Institution of Engineers (India), Tripura State Centre had organized a Webinar on 26th June, 2021 at 05:00 P.M. through Google Meet as a part of its bi-monthly technical programme.

Dr. Rumi Sutradhar, Lecturer, Gomati District Polytechnic, Udaipur made power point presentation on the topic "Treatment of Pavement Shoulder using Coir Fiber"; Sri Rahul Choudhury, Student, Final year, Civil Engineering Department, Techno College of Engineering Agartala made power point presentation on the topic "Comparison Study of Computer Aided Structural Analysis Between Conventional Structural Modeling Approach & Modeling with Equivalent Diagonal Strut of URM (Unreinforced Masonry)" and Sri Jayanta Paul, Student, Final year, Civil Engineering Department, Techno College of Engineering Agartala made power point presentation on the topic "Comparison of structural response of a tall building with mivan wall conventional construction approach under seismic lateral loads" as Special Speakers.

Er. Subrata Banik, FIE, Chairman, Civil Engineering Division (in/c Environmental, Architectural & Agricultural Engineering), IEI, Tripura State Centre presided over the programme. Er. R.K. Majumder, FIE, Advisor, Civil Engineering Division (in/c Environmental, Architectural & Agricultural Engineering), IEI, Tripura State Centre; Dr. Subhadeep Bhattacharjee, FIE, Honorary Secretary, IEI, Tripura State Centre and Er. C. Debnath, FIE, Chairman, IEI, Tripura State Centre also spoke on the occasion.

Er. Susanta Dutta, MIE, Member – in – Charge (Finance) & also Member, Civil Engineering Division (in/c Environmental, Architectural & Agricultural Engineering) of IEI, Tripura State Centre co-ordinated the programme as moderator of the programme.

The programme was very much successful with the participation of Faculty, Students & practicing Engineers and interactive session.

The Institution of Engineers (India)

Tripura State Centre

SCHEDULED PROGRAMMES IN 2021

A. Statutory Programme Day	
1. 4th March, 2021: World Engineering Day	7. 18th April, 2021: World Heritage Day
2. 22nd March, 2021: World Water Day	8. 22nd April, 2021: World Earth Day
3. 17th May, 2021: World Telecommunication & Information Society Day	9. 3rd May, 2021: International Energy Day
4. 5th June, 2021: World Environment Day	10. 11th May, 2021: National Technology Day
5. 9th September, 2021: Royal Charter Day	11. 21st June, 2021: International Yoga Day
6. 15th September, 2021: 54th Engineers Day	12. 24th July, 2021: National Thermal Engineer Day
7. 4th October, 2021: World Habitat Day	13. 15th August, 2021: Independence Day
8. 14th October, 2021: World Standard Day	14. 18th August, 2021: 4th M.L. Dasgupta Memorial Lecture
9. 14th December, 2021: Energy Conservation Day	15. 24th August, 2021: 3rd N.K. Sinha Memorial Lecture
B. Other Scheduled Programme Day	
1. 25th January, 2021: National Tourism Day	16. 30th August, 2021: Small Industry Day
2. 26th January, 2021: Republic Day of India	17. 13th September, 2021: Foundation Day of IEI.
3. 28th February, 2021: National Science Day	18. 1st October, 2021: International Day for the Elderly (UN).
4. 8th March, 2021: International Women's Day	19. 31st October, 2021: Annual General Meeting of IEI, Tripura State Centre
5. 18th March, 2021: 1st C.R. Bhattacharya Memorial Lecture	20. 10th November, 2021: Transport Day
6. 1st April, 2021: 31st Foundation Day of IEI, Tripura State Centre	21. 5th December, 2021: National Soil Day

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MONTHLY MEETING CALENDAR of

The Institution of Engineers (India), Tripura State Centre

State Committee Meeting : Routine meeting on 2nd Saturday in every month at 05.00 P.M.
Discussion of State Committee Members : Routine Discussion on 4th Saturday in every month at 05.00 P.M.

Venue of Meeting : **IEI BUILDING, P.N. Complex, Gurkhabasti, Agartala**

Various Committee Meetings on the following dates of each month at 06.00 P.M.

(NOTE: In case it is not possible to arrange the meeting in schedule date, it is to be commenced as per suitable alternate date)

1.	2. [Civil Engineering Division in/c Environmental, Architectural & Agricultural Engineering] & [Finance Committee in/c Manpower]	3.	4. [Electrical Engineering Division] & [Computer Science and Electronics & Telecommunication Engg. Division]
5.	6. [Mechanical & Production Engineering Division] & [Chemical Engineering in/c Textile & Metallurgical & Material Science Engineering Division]	7.	8. [Membership Committee] & [District Co-Ordination Committee]
9.	10. [Technical Committee in/c Training Programme] & [Academic Committee in/c Examination]	11.	12. [State Centre Technician Committee] & [Students' Chapter State Committee]
13.	14. [R & D and Consultancy Committee] & [Senior Engineers Forum]	15.	16. [Women Engineers Forum] & [IEI, TSC Alumni Committee]
17.	18. [Cultural Committee] & [Sports Committee]	19.	20. [Finance Committee in/c Manpower]
21.	22. [Building Works Committee in/c Estate] & [Publication Committee]	23.	24. [IEI TSC Ladies Forum] & [Library Committee]
25.	26.	27.	28.
29.	30.	31.	

SEMINAR:

ODD MONTH :

Saturday-05.00 pm-Lec. Prog.: 1st – Mechanical, 3rd – Electrical, 4th – Technician Chapter

EVEN MONTH:

Saturday-05.00 pm-Lec. Prog.: 1st – Computer & Electronics, 3rd – Chemical & Textile, 4th – Civil

Cultural Prog. cum Get-together :

4th Saturday of Every Odd Month at 06.30 P.M.

NOTE: Technician Chapter Committee Meeting:

Routine meeting on 4th Saturday in every month at 05.00 P.M.

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If undelivered, Please return to:

The Honorary Secretary
The Institution of Engineers (India)
Tripura State Centre
Pandit Nehru Complex, Gurkhabasti,
Agartala, West Tripura, Pin - 799006

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