



**International Conference on Electronics and Advances in
Science & Technology
(IConEAST-24)
November 8 & 9, 2024**

Organized by
Electronic Scientists & Engineers Society (ESES)
in support with
Gauhati University

Schedule & Programme

AGENDA

IConEAST-24

Venue: GU-IST Conference Hall (3rd Floor)

08/11/2024 Opening Session Time in IST: (IST=UT+05:30hrs)

- 10:00 hr – 10:03 hr : Invocation Song.
- 10:03 hr – 10:05 hr : Invitation of the Dignitaries to the Dais.
- 10:05 hr – 10:07 hr : Lighting of Lamps.
- 10:07 hr – 10:10 hr : Felicitation of the Guests on the Dais.
- 10:10 hr – 10:15 hr : Formal Opening of the Conference.
- 10:15 hr – 10:20 hr : Welcome Address.
- 10:20 hr – 11:20 hr : Speech from the distinguished Guests.
- 11:20 hr – 11:25 hr : Speech from the President ESES.
- 11:25 hr – 11:30 hr : Vote of Thanks.

In details

- 10:10 hr – 10:25 hr : Formal Opening of the IConEAST-24 by Prof. Nani Gopal Mahanta, Honorable Vice Chancellor of Gauhati University.
- 10:25 hr – 10:30 hr : Welcome Address by the Convener IConEAST-24.
- 10:30 hr – 10:40 hr : Speech from Sri Jaideep Barua, Director Assam Science Technology and Environment Council (ASTECC) as a Chief Guest.
- 10:40 hr – 10:50 hr : Address by Dr. S O’Neil Shaw, Senior Scientist (F) & Meteorologist, Regional Meteorological Centre Guwahati as a Guest of Honour.
- 10:50 hr – 11:00 hr : Address by Mr. Gokul Bhuyan, Chief Environmental Engineer, Pollution Control Board (PCB), Assam, as a distinguished guest.
- 11:00 hr – 11:20 hr : Invited Speech (online) from Prof. R.P Singh, Renowned Scientist, Chapman University, California, USA, on the topic: *My journey from low to high frequencies in monitoring earth and space to understand dynamic nature of Indian plate.*
- 11:20 hr – 11:25 hr : Address of the President ESES
- 11:25 hr – 11:30 hr : Concluding remarks & Vote of Thanks.
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8.11.2024: TECHNICAL SESSIONS

Time in IST : (IST=UT+05:30hrs)

12:15 hr to 13:35 hr and 14:15 hr to 17:30 hr

<i>Session</i>	<i>Time</i>	<i>Speaker</i>	<i>Chair- persons</i>	<i>Mode</i>
Session II	12:15 hr to 12:55 hr	Dr. Utpal Chakrobarty AIA -IConEAST-001(K) Enterprise-scale generative ai implementation : A technical analysis of adoption patterns and deployment architectures	Prof T.C. Dutta/Prof. Dhrubajyoti Saharia	
Session III	12:55 hr to 13:35 hr	Prof. K.I. Oyama EMP-IConEAST-001(K) Common features of ionosphere and vertical ground motion before large earthquakes _ summary of our study	Prof T.C. Dutta /Prof. Dhrubajyoti Saharia	ON LINE
Lunch Break: 13:35 hr to 14:15 hr				
Session I	14:15hr to 14:55 hr	Prof. W. Chen RSSS-IConEAST-001 (K) Space borne aerosol and carbon dioxide detection lidar (acdl): Development and on- orbit performance	Prof. A.G. Barua /Dr. Ranjit Sarua	ON LINE
Session III	14:55 hr to 15:25 hr	Dr. Colonna Roberto EMP-IConEAST-001 (I) Continuous long-term analysis on earthquake-related total electron content (tec) signal across the mediterranean region	Prof. A.G. Barua /Dr Ranjit Sarua	
Session I	15:25 hr to 16:05 hr	Dr. Lagrosas Nofel RSSS-IConEAST-003(K) On current collaborative work on nighttime cloud detection	Prof. A.G. Barua /Dr Ranjit Sarua	ON LINE
Tea Break 16:05 hr to 16:15 hr				

Session III	16:15 hr to 16:55 hr	Prof. Farshed H. Karimov EMP-IConEAST-002(K) Aomalous variations of the PH parameter of the underground thermal mineral waters as an earthquake precursor	Prof. K. Kalita/ Dr. Colonna Roberto	ON LINE
Session II	16:55 hr to 17:25 hr	Prof. Dharmendra Singh AIA-IConEAST-001(I) Artificial intelligence approaches for sustainable land use planning and management using satellite images	Prof. K. Kalita/ Dr. Colonna Roberto	ON LINE
9.11.2024: TECHNICAL SESSIONS Time in IST : (IST=UT+05:30hrs) 09:30 hr to 13:35 hr & 14:15 hr to 17:30 hr				
Session III	09:30 hr to 10:00 hr	Dr. S. S. Kundu TPGHC-IConEAST-001 (I) Lightning nowcasting over the north Eastern region of india using the WRF-ELEC model	Dr. D. Chakrabarty	
Session I	10:00 hr to 10:40 hr	Prof. K.P. Ray RSSS-IConEAST-002 (K) State of art advancement in modern Wireless communication systems	Dr.D. Chakrabarty	ON LINE
Tea break 10:40 hr to 10:50 hr				
Session VI	10:50 hr to 11:20 hr	Prof. A. G. Barua ISARF-IConEAST-002(I) Information carried by the light of the firefly	Prof. K. K. Das/Dr. S. S. Kundu	
Session VI	11:20 hr to 11:50 hr	Prof. Hemanta K. Baruah ISARF-IConEAST-001(I) The four colour theorem in colour of a map: a proof by induction	Prof. K. K. Das/Dr.S. S. Kundu	

Session VI	11:50 hr to 12:20 hr	Prof. K Kalita IDSRF-IConEAST-001(I) Accelerator based nuclear physics experiments and instrumentation	Prof. K. K. Das/Dr. S.S. Kundu	
Session V	12:20 hr to 12:35 hr	Dr. D. Chakrabarty SMHP-IConEAST-001 An approach to measure the change Of climatic temperature	Prof. K. K. Das/Dr S. S. Kundu	
Session V	12:35 hr to 12:50 hr	Dr. N. J. Dutta IDSRF-iconeast-001 Fabrication of tungsten carbide thin film using plasma focus device	Prof. K. K. Das/Dr S. S. Kundu	
Session V	12:50 hr to 13:05 hr	Ms.T. Shaw RSSS-iconeast-002(St) Automatic weather station in weather monitoring	Prof. K. K. Das/Dr S. S. Kundu	
Session V	13:05 hr to 13:20 hr	Ms. Jyotismita Doley DSRF-IConEAST-002 Permanent magnetic ferrite based metamaterial absorber for x-band applications	Prof. K. K. Das/Dr S. S. Kundu	
Session V	13:20 hr to 13:35 hr	Mr. Gitanjal Deka IDSRF-IConEAST-003 Diatom as natural terahertz absorber	Prof. K. K. Das/Dr S. S. Kundu	
Lunch Break : 13:35 hr to 14:15 hr				
Session V	14:15hr to 14:30 hr	Ms. Ananya Dutta AIA-IConEAST-002 Artificial intelligence in radar technology and communication networks	Dr. M Barman/ Mr. Ramani Das	
Session V	14:30 hr to 14:45 hr	Mr. Dimpal Boro IDSRF-IConEAST-005 Improving cloaking efficiency of electrically large dielectric objects with two-layer mantle cloaks	Dr. M Barman/ Mr. Ramani Das	

Session V	14:45 hr to 15:00 hr	Mr. Achuyt Bharalee IDSRF-IConEAST-004 A compact dual polarized beam steering Phase gradient metasurface reflect Array antenna for x-band applications	Dr. M Barman/ Mr. Ramani Das	
Session V	15:00 hr to 15:15hr	Mr. Himangsu Das RSSS-IConEAST-001 Compact, low cost navic receiver For location-based services	Dr. M Barman/ Mr. Ramani Das	
Session V	15:15 hr to 15:30 hr	Mr. Shashank Nautiyal SMHP-ICONEAST-002 Deconvolution of clear-air echoes from rain-cluttered VHF ST radar doppler spectrum	Dr. M Barman/ Mr. Ramani Das	.
Session V	15:30 hr to 15:45 hr	Mr. Bijit Kumar Banerjee SMHP-IConEAST-003 Evaluation of atmospheric boundary layer characteristics over guwahati through vhf wind profiling radar	Dr. M Barman/ Mr. Ramani Das	
Tea break 15:45 hr to 16:00 hr				
Session VIIa	16:00 hr to 17:00 hr	Interactive session	Prof. B R Barua & Dr. Utpal Chakro-barty	
Parallel Session VIIb 16:00 hr to 17:00 hr				
Session VIIb	Combined LTIMC& H-IConEAST-001	Prof. Oyama et.al. EMP-IConEAST-002 Constellation of micro and mini satellite for earthquake predictiin : towards internatiinal collaoratiion.	.	

Session VIIb	Combined with EMP- IConEAS T-001(K)	Prof. K.I. Oyama EMP-IConEAST-001 Small satellite mission for earthquake prediction and candidate instruments.		
Session VIIb	16:00 hr- 16:15 hr	Mr.Partha Das AIA-IConEAST-001 Innovating with ai avatars: transforming education and operations at german uds		ON LINE
Session VIIb	16:15 hr- 16:30 hr	Dr. M. Bhuyan ISARF-iconeast-001 Measurement of neutron multiplicity on ^{35}Cl + ^{209}Bi and ^{31}P + ^{232}Th systems populating ^{244}Fm and ^{263}Db compound nucleus		
Session VIIb	16:30 hr- 16:45 hr	Mr.Tridib Sarma SIPMLNN-IConEAST-001 Design of a crawler-algorithm and web structure mining on information retrieval		
Session VIIb	16:45 hr to 1700 hr	Prof. Devi et. al. LTIMC&H-IConEAST-001 An integrated analysis in search of precursors of earthquakes and solar storms in complex geomagnetic and manmade ambiances		
Concluding Session and Resolutions 17:00 hr to 17:30 hr				