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- Prof.Simant, SITM, Barabaki
- Dr. Suresh C.Bajpai, Futuris Energy (P). Ltd.
- Prof. UshaBajpai, LucknowUniversity, Lucknow

Important Dates

Last Date for Paper Submission	20.08.2016
Notification of Acceptance	20.09.2016
Camera ready copy	30.09.2016
Last Date for registration	05.10.2016

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INTEGRAL UNIVERSITY

A National Conference

on

“Emerging Trends in Non Conventional Energy Resources (ETNCER-16)”

Date:22nd October, 2016

Organized by: Department of Electronics & Communication Engineering, Physics & Electrical Engineering

Technically / Financially sponsored by



Integral University

Dasauli, Kursi Road

Lucknow-226026 (U.P), India

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Website: www.iul.ac.in

Objective

Sustained reliable power generation is the key to nation's growth. In the backdrop of increasing energy demand, researchers, industries and policymakers are focusing on new and renewable energy sources as a viable solution.

Main objective of ETNCER-16 is to present the latest research, technology, innovation and commercial aspects related to renewable energy sources. This conference will bring researchers, entrepreneurs, industry and consumers on a platform for knowledge dissemination, awareness, and motivation to use renewable Energy sources with special thrust on solar PV system.

Scope

Original research contributions, technical papers and review papers on the following topics are invited for peer review and possible inclusion in the Conference Proceedings/ journals.

- Renewable Energy, Systems, Integration
- Energy Management, Policy & Economics
- Materials for non-conventional energy applications
- Nano materials for energy production
- Materials for energy storage
- Liquid Crystal Solar cell
- Energy Efficiency and Conservation
- Any other topic in the scope of conference

Keynote Speaker

- Prof.(Dr.) T. Usmani, Pro Vice Chancellor, Integral University, Lucknow, India (Former General Manager & Executive, Director-ITI Ltd.)
 - Mr. S. N Dwivedi, Chairman & Managing Director Elcomponics Group of companies, India.
 - Prof.(Dr.) J. N Roy, Professor, Advanced Technology Development Center, IIT Kharagpur.
 - Prof.(Dr.) C. K. Dwivedi, Professor & Head, Deptt. of ECE, J. K Institute of Applied Physics & Technology, University of Allahabad
 - Dr. S.P. GonChaudhuri, President, NBIRT, Kolkata (Former Prof., Green Energy Center, IEST, Shibpur, WB)
- & other eminent speakers from the field.

About Integral University



Integral University is a NAAC accredited state private university established in 2004 and approved by UGC under section 2(f) and 12(B) of UGC act 1956.

It has established its own credentials and singular reputation within a very short span of time. It has marvelous ambience and academically, lively and vibrant environment, highly conducive to higher and dedicated academic pursuits.

The university is committed to generating, disseminating, and preserving knowledge. Our academic programs like engineering, medicine, science, arts, architecture and management equip students with the academic rigour and intellectual capacity to meet the corporate business challenges.

About Lucknow

Lucknow has been known as the city of Tehzeeb, Culture, Art, Literature and Food. In past few decades, city is also being known as science and education hub.

Some of the major attractions of Lucknow include Bara Imambara, British Residency, ChattarManzil, Rumi Darwaza, Clock Tower, MotiMahal, Hussainabad Imambara and many others. Lucknow is connected with major cities through flights, trains and buses.

Chaudhary Charan Singh International Airport at Amausi operates regular flight services and is situated 20 km from the city center. Lucknow Railway Station at Charbagh is the main railway station and is the most convenient way to reach the city.

Paper Submission

Research articles should comprise of upto four (4) pages, and comply with the IEEE layout of the template provided for the purpose. Soft copy of the full manuscript, in PDF form, should be submitted using **Easy Chair** by following the link provided in the Paper Submission page on the conference website. The paper may also be submitted through Email: etncer16@iul.ac.in

All submitted papers shall be subjected to a blind review process to ascertain their quality before inclusion in the conference proceedings/ journals.

Each accepted paper will be published in conference proceedings and best paper will be published in reputed Journal. Authors with more than one paper shall get 50% waiver in registration fee for each subsequent paper.

Registration

Interested candidates should register either through online or offline mode. For online mode, registration fee may be deposited through NEFT. Details of the bank is:

Name of A/C Holder: Treasurer, Integral University

Account No. 1854010100004840

Indian Authors	Rs1500/-
Student Authors	Rs 1200/-
Industry delegates & Foreign Authors	Rs2500/-
Conference participation	Rs500/-

Accommodation charges are not included in registration fee

Name of A/C Holder: Treasurer, Integral University

IFSC Code: PUNB0478600

Punjab National Bank, IIT Dasauli, Kursi Road, Lucknow

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Dr. M. Alam, M: +919935702489, Email: malam@iul.ac.in

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INTEGRAL UNIVERSITY, LUCKNOW

**Department of Electronics & Communication Engineering,
Physics & Electrical Engineering**

Presents

“Emerging Trends in Non-Conventional Energy Resources”

ETNCER-16

Date: October 22, 2016

PROGRAMME SCHEDULE

Venue: Central Auditorium, Integral University, Lucknow

08:30 to 09:30 am Registration

Inaugural Session (09:30 to 10:45 am)

Minute to Minute Program

09:30 to 09:35 am	Bouquet Presentation
09:35 to 09:40 am	Welcome address by Convener ETNCER-16 & Head ECE, Integral University
09:40 to 09:45 am	Address by Dean (Engineering), Integral University
09:45 to 09:50 am	Address by Address by Pro-Vice Chancellor, Integral University
09:50 to 10:00 am	Address by Guest of Honor Dr. M.J.K. Siddiqui, Chairman UPCST, Lucknow
10:00 to 10:10 am	Address by Chief Guest Hon'ble Vice-Chancellor Prof. S.W.Akhtar
10:10 to 10:15 am	Release of ETNCER 2016 Souvenir
10:15 to 10:20 am	Memento Presentation to Chief Guest & Guest of Honor
10:20 to 10:25 am	Vote of Thanks by Organizing Seceratry ETNCER-16 & Head EE, Integral University
10:25 to 10:30 am	National Anthem
10:30 to 10:45 am	High Tea

Plenary Session-I (11:45 to 02:00 pm)
Venue: Integral University Auditorium
Technical Session-I (12:45 to 02:00 pm)

Venue: IU Auditorium (Hall-1)		Venue: IU Auditorium (Hall-2)	
Session 1A(12:45 to 02:00 pm)		Session 1B (12:45 to 02:00 pm)	
11:45 to 12:15 pm Invited Talk-1 by Dr. Isht Vibhu		11:45 to 12:15 pm Invited Talk-3 by Dr. B.R.Singh	
12:15 to 12:45 pm Invited Talk-2 by Dr. Imran Aziz, Sibli College, Azamgarh		12:15 to 12:45 pm Invited Talk-4 by Dr.P.K.Bahrti, HoD, ME, IU LKO	
Session Chair : Dr. Suresh Bajpai, University of Lucknow, Lucknow Co-Chair : Prof. N.R.Kidwai, Dean(Engg.) JIT, Barabanki Rapporteur : Dr. S. Ahmad Khan, St. Andrew's College GKP		Session Chair : Prof. Rajiv Manohar, Lucknow University, Lucknow Co-Chair : Dr. Khwaja M. Rafi, Director, JIT , Barabanki Rapporteur : Dr. Mohd. Tariq, MBP Govt. College Lucknow	
<p style="text-align: center;">Oral Presentation by delegates</p> <p>PAPER ID</p> <p>ETNCER-001 : Renewable Energy Technologies, Sustainable Development and Environment <i>By Abdeen Omer</i></p> <p>ETNCER-002 : Comparative Study of Solar and Conventional Energy Resources <i>By Benjeer Usmani, Aiman Khan, Ila Gaur</i></p> <p>ETNCER-003 : Review on Renewable Energy for Rural Development and Impact of Solar Energy in Rural Development in India <i>By Sameer Srivastava, Imran Ullah Khan, S.H.Saeed, M.Alam</i></p> <p>ETNCER-004 : Goggle Mouse <i>By Afjal Ahmad, Anas Ahmad Khan, Qazi Ahmad Saeed</i></p> <p>ETNCER-005 : Voice Over Wi-Fi Employing SIP (Session Initiation Protocol) <i>By Shubham Chowdhry, Ravi Jaitly, Shrish Bajpai</i></p> <p>ETNCER-006 : A Review Paper on Renewable Energy Power Generation <i>By Piyush Mishra, S. Abbasi, Md. Shaif, Md. Hassan, I. U. Khan</i></p> <p>ETNCER-007 : A Novel Design for Highway Windmill Through Reengg. <i>By Sushant Khare, Abhishek Chatterjee, V. Maurya, S. Bajpai</i></p> <p>ETNCER-008 : GPS and GSM Based VTS Using Web Based Mapping Application <i>By Md. F. Khan, Md. Ahmed, Md. Asif, Md. Kaleem, Md. Arshad</i></p> <p>ETNCER-009 : Fuzzy Logic Based Control of Indirect Field Oriented AC Motor Drives <i>By Akhilesh K. Mishra, V. Kr. Tiwari, C. Banerjee, S. Srivastava</i></p> <p>ETNCER-010 : An Arduino UNO Based Control System for Efficient Power Saving <i>By C. Srivastav, L. Rahman, A. Masood, A. Haleem, S. Srivastava</i></p> <p>ETNCER-011 : Conveyer for Paralytic/Disabled People <i>By Shoib Akhtar, D. Ahmad, W. A. Ansari, T. Ahmad , S. Maurya</i></p> <p>ETNCER-012 : GSM Based Alarm System for Temperature, LPG leakage & Spark Detection in Industrial Applications <i>By Ruban Sageer, R. Shukla, Irfan Ullah, Md. S. Akhtar, S.H. Saeed</i></p>		<p style="text-align: center;">Oral Presentation by delegates</p> <p>PAPER ID</p> <p>ETNCER-013 : Solar Energy, the Energy Source for the Future <i>By Saman</i></p> <p>ETNCER-014 : Study of Cooperative Spectrum Sensing Techniques in Cognitive Radio N/W <i>By Mamta Bhatt, Vartika Srivastava, Shipra Nigam</i></p> <p>ETNCER-015 : Performance Comparison of SVC and STATCOM Controlled Wind Farm Energy System <i>By Satyadharma Bharti, Sanjay Dewangan, Vipin Pratap</i></p> <p>ETNCER-016 : Performance Improvement of Wind Farms Equipped with Six SCIG Generators Using STATCOM <i>By Satyadharma Bharti, Sanjay Dewangan</i></p> <p>ETNCER-017 : Nano-Engineered Materials for Solar PV Panels <i>By Amro Sadul Quddus, Archana Yadav</i></p> <p>ETNCER-018 : Economical Feasibility of a Small Grid Connected Solar Rooftop system Design and Implementation in India- A Case study <i>By Md. Shakibul Haque, Mohammad Yasir</i></p> <p>ETNCER-019 : Solar Cell and Its Maximum Power Point Tracking <i>By Afroz Mokarim, R. Nazim, Syed S. Imam ,Md. Asim</i></p> <p>ETNCER-020 : Performance Comparison of MANET Routing Protocols in Battle field Disaster Management Using QualNet 6.1 Simulator <i>By A. K Yadav, A. Xavier Das, Er. M. Kumar, Prof. A. KJaiswal</i></p> <p>ETNCER-021 : Performance Comparison of Routing Protocol Under Random waypoint Mobility Model for Long Distance MANET <i>By Aishna Dutt , A. Xavier Das, Rohini Saxena, A.K. Jaiswal</i></p> <p>ETNCER-022 : Implementation of MANET Routing Protocols Hostile battlefield Networks. <i>By Richika Singh, A Xavier Das, Rohini Saxena, A. K. Jaiswal</i></p> <p>ETNCER-023 : Analyzing the Significance of Various Routing Protocols in Changing No. of Nodes over Different Mobility Models in MANETs Using QualNet Simulator 6.1 <i>By Stuti Pant, A. Xavier Das, Navendu Nitin, A.KJaiswal</i></p> <p>ETNCER-024 : Performance Analysis of SOA-MZI Based All-Optical & XOR Gate <i>By Utkarsh Gupta, Prof. A.K. Jaiswal</i></p>	

Technical Session-I(12:45 to 02:00 pm)		Plenary Session-II (02:30 to 04:45 pm) Venue: Integral University Auditorium Technical Session-II (03:30 to 04:45 pm)	
Venue: IU Auditorium (Hall-3)	Session 1C (12:45 to 02:00 pm)	Venue: IU Auditorium (Hall-1)	Session 1D (03:30 to 04:45 pm)
11:45 to 12:15 pm 12:15 to 12:45 pm	Invited Talk-5 Invited Talk-6	02:30 to 03:00 pm 03:00 to 03:30 pm	Invited Talk-7 Invited Talk-8
Session Chair : Dr. Alok Mishra AITM, Lucknow Co-Chair : Dr. Isht Vibhu, HoD, Physics, YDPG College, Lakhimpur Rapporteur : Dr. N. K. Sharma, BBAEET, Etawah		Session Chair : Dr. Atiqur Rahman, Principal Scientist, Physics ICAR Patna, Bihar Co-Chair : Dr. Seemant Mishra, SITM, Barabanki Rapporteur : Dr. Y. Yasin, Integral University, Lucknow	
Oral Presentation by delegates Paper ID ETNCER-025 : E-SDEEC: Enhanced Sonic Distributed Energy Efficient Clustering Scheme for Heterogeneous WSN <i>By Anubha, Rajeev Paulus, A.K. Jaiswal</i> ETNCER-026 : Failure & Reliability Analysis of DSP-210D Mono Crystalline SPV System with Comparative Study <i>By Mohammad Yasir, Md. Shakibul haque, Faraz Khan</i> ETNCER-027 : Factors Affecting the Pace of Development of Source of Nuclear Fusion Energy <i>By Mohammad Imran Aziz</i> ETNCER-028 : Infrared Polymer Solar Cell <i>By Hasan Iftikhar, Mohd.A. Sarwar, Shadab Khan, T. A. Chandel</i> ETNCER-029 : Railway Track Security System Using GSM Modem <i>By Haroon Khan, Aeraz Afsar, J. A. Khan, Z. H. Khan</i> ETNCER-030 : Analysis and Testing Methods for Solar Thermal Evacuated Tube Collector – A Review <i>By Avritti Srivastava, Sachin Gupta, Usha Bajpai</i> ETNCER-031 : GSM Based Parents Tracking of the Student Attendance in College <i>By Neha Maurya, Nitin Verma, Reyazul Haque, Sameerah Shamim</i> ETNCER-032 : The Study of Solar Energy as Futuristic Energy Source <i>By T. A. Chandel, Faheem H Wani, Akhlak A Khan</i> ETNCER-033 : Challenges And Opportunities In Non-Conventional Energy Resources <i>By Ekta Maurya</i> ETNCER-034 : Materials for Fabrication of Solar Cells: a Review <i>By Vishwadeep Chakraborty, Usha Bajpai</i> ETNCER-035 : RFID Based Challan System with SMS Notification Using Solar Energy <i>By Eram Kayanat, Fouzia, Kakul Khan, K. A. Fatema⁴, Z. H. Khan</i> ETNCER-036 : Piezoelectric Flooring: Harvesting The Power of Footsteps <i>By Palash Jain</i>		Oral Presentation by delegates Paper ID ETNCER-037 : Analysis of Image Coders <i>By Shefa Hasnain, Sadiya Bakhshi, Shazia Asif, M. Alam</i> ETNCER-038 : Economic Viability of Solar Energy Systems in the Indian Context <i>By F. Mehmood, Ali Anas, K. A. Iraqi, F. Ahmad, M.M. Siddiqui</i> ETNCER-039 : Home Appliances Control Using DTMF <i>By G. W. Ansari, I. Sddiqui, K. K. Chaurasiya, J. Haque, S. Ahmad</i> ETNCER-040 : Estimation of Parameters for Grid Connected Photo-Voltaic System Using PV system : A Case Study <i>By Chandragiri Radha Charan</i> ETNCER-041 : Control of Home Appliances Using Cell Phone <i>By Md. Y. Ansari, N. Ahmad, S. Ahmad, N. Kumari, Md. T. Alam</i> ETNCER-043 : Image Steganography - Using LSB Technique <i>By A. Srivastava, C. Verma, A. Raha, H. Khan, S. Ahmad</i> ETNCER-044 : Technical Report on Renewable Energy <i>By J. K. Verma¹, B. S. Bisht, M. D. Sharma, Shailesh Verma</i> ETNCER-046 : To Study the Distortion in a Bent Multimode Optical Fiber at Low Frequency Signals <i>By Nitika, S.Gaurav, S.P Singh</i> ETNCER-047 : Hybrid Solar PV- Wind Energy System: A Performance Study <i>By Rajneesh K. Mishra, S. Gupta, Usha Bajpai</i> ETNCER-048 : Insulation Test (Leakage Current Test) on 1kwp PV Array at Real Time Condition <i>By Anurag Tiwari, S. C. Bajpai, Usha Bajpai</i> ETNCER-049 : Energy Yield from Biomass: A Case Study of a Village in U. P. <i>By Palak Agarwal, Anil Kumar, Usha Bajpai</i> ETNCER-050 : Cocktail Natural Dye Based Solar Cell for Enhancement in Solar Efficiency <i>By Mridula Tripathi¹, Priyanka Chawla</i>	
		Valedictory Function (04:45 to 05:00 pm) & Certificate Distribution	

Report

National Conference “Emerging Trends in Non-Conventional Energy Resources”

(ETNCER-16)

Organized on October 22, 2016 at Integral University, Lucknow

The First National Conference titled “**Emerging Trends in Non-Conventional Energy Resources ETNCER-16**” was organized by the Department of Electronics and Communication, Physics & Electrical Engineering on **October 22, 2016** at Integral University, Lucknow. This was a one day National Conference and was technically/financially supported by **IEEE UP Section, WIE IEEE Affinity Group, UP-NEDA , SEEM , ISTE and UPCST**. The Conference was well attended by eminent academicians, faculty members & students from various Universities and educational institutions from different parts of the country & representatives of government bodies and industries. The conference started with the welcome address by **Prof. S. Hasan Saeed**, Convener ETNCER-16, and HoD ECE, wherein he briefed about Integral University and achievements of Integral University in the fields of research & technology.

Chief Guest, Pro Vice-Chancellor Prof. T. Usmani addressed the audience by providing an insight to the fact that in future Non-conventional energy resources are going to be very vital.

The Conference Souvenir was released by Hon’ble Pro Vice Chancellor and all the dignitaries on the dais.

The Technical Session started with the keynote addresses by eminent speakers **Dr. Usha Bajpai, Professor at Center of Excellence in Renewable Energy Education and Research, University of Lucknow, Lucknow & Dr. Syed Naseem Ahmad, Professor, Department of ECE, Faculty of Engineering and Technology, Jamia Millia Islamia, New Delhi.**

Dr. Usha Bajpai discussed in her key note address about the sustained reliable power generation as key to nation’s growth. She also discussed about solar energy and its physical significance.

Dr. Syed Naseem Ahmad delivered the concept and idea on the latest research, technology, innovation and commercial aspects related to renewable energy sources.

The Conference theme played around the following research areas: Renewable energy systems, Integration energy management, Policy & Economics, Materials for non-conventional energy applications and Nano materials for energy production.

Four parallel tracks were held in which a total of 60 papers were presented. The presentation were reviewed by panel of session chairs **Dr. Suresh Bajpai, Director FIETE, Lucknow, Dr. N.R.Kidwai, Dean JIT, Barabanki, Dr. Mohd. Tariq MBP Govt. College, Gorakhpur, Dr. Isht Vibhu, HoD, Physics YDPG College, Lakhimpur, Dr. Puneet Mishra, Deptt. Of Computer Science, Lucknow University, Lucknow, Dr. Mahendra Agnihotri, Deptt. of Physics, Lucknow University, Lucknow, Dr. Mohd. Tariq, MBP Govt. college, Lucknow, Dr. P. K. Bharti, HoD, ME, Integral University, Lucknow.** The authors were queried both by the experts as well as the audience. Sessions best papers were selected by the session chairs. During the **Valedictory Program** conducted in the evening, the **Chief Guest Prof. M. Abdel Wahab, Department of Engineering Science, Suez University, Egypt**, congratulated the University and the Management on organizing a national conference on a contemporarily relevant theme and offered his respective organizations help and support in organizing such programs in the future too. **Dr. Imitiyaz Ashraf, Prof. AMU, Aligarh** was also a **Guest of Honor** on the occasion.

A few participants who gave their feedback on the conference praised the department for hosting its first ever conference in such an impeccable manner and said that they were overwhelmed by the hospitality offered by the organizers.

On behalf of the departments of ECE, EE & Physics, **Dr. Mounawer Alam, HoD EE**, delivered Vote of thanks. He thanked all the sponsors, advertisers, delegates, representatives from the media and the faculty and student for their magnanimous support and assured that university will organize more such activities in the future. That concludes a remarkable, memorable, knowledgeable conference ETNCER-16. The Conference Souvenir CD was released by the Chief Guest on the occasion and the certificates to the participants too were given away.

After the valedictory program, high tea was served and the conference came to an end, leaving fond memories in the minds of the guests and delegates and great sense of satisfaction and accomplishment in all members of the faculty and staff and student volunteers who were associated with its preparation and organization over a period of three months.

SAMPLE COPY



Departments of
Electronics & Communication Engineering
Electrical Engineering and Physics

Certificate of Participation
ETNCER-16



This is to certify that Mr./Ms. _____
has attended National Conference on “Emerging Trends in Non-Conventional
Energy Resources (ETNCER-16)”, held on October 22, 2016 at Integral
University, Lucknow, India.

Prof. S. Hasan Saeed
(Convener)

Dr. Monauwer Alam
(Organizing Secretary)

Prof. V. S. Chandel
(Convener)