



IEAP NEWSLETTER

Vol. III

Number - 12

December, 2011

Price Rs. 0.25 Ps.



CONGRATULATIONS

Er G PRABHAKAR, FIE, President, IEI is awarded prestigious Distinguished ALUMNI AWARD during the Alumni meet in connection with the 26th Indian Engineering Congress held at Bangalore on 17th December, 2011 in recognition of his remarkable service to the Institution of Engineers (India) and fraternity and achieving the great status in his field. The A P State Centre of IEI congratulates Er G PRABHAKAR for this honour.

From the Chairman's Desk

BEST STATE CENTRE AWARD 2010-2011

The 26th Indian Engineering Congress, a mega event of The Institution of Engineers (India), was organized in a befitting manner at Palace Grounds, Bangalore during 15th-18th December, 2011 by the Karnataka State Centre. The A P State Centre puts on record the excellent arrangements made for conduct of 26th IEC at Palace Grounds, Bangalore where in, new programmes

such as women's meet, Alumni meet, colloquiums in all fifteen disciplines, sustainable platform, plenary session on R&D etc. were organized. I am happy to bring to the notice of all Corporate Members, Non Corporate Members and well-wishers that A P State Centre of IEI has been adjudged as the Best State Centre jointly with Jharkhand State Centre of IEI and Karnataka State Centre of IEI for the best all-round performance for the year 2010-2011. It is Seventh time A P State Centre could achieve the BEST STATE CENTRE AWARD out of 12 years i.e. from the commencement of award in 2000. Earlier we have received the best State Centre Awards for the years 1999-2000; 2004-2005; 2005-2006; 2006-2007; 2008-2009; 2009-2010 and Seventh time 2010-2011 also. Further I inform that Pune Local Centre of IEI was adjudged as the Best Local Centre for the year 2010-2011. The Best State Centre and Local Centre awards were announced at 667th adjourned Council Meeting held on 17th December at Palace grounds, Bangalore. The Chairman of the A P State Centre along with



two other Chairmen of Jharkhand and Karnataka State Centre received the best State Centre Award, a memento, a Certificate and Cash Prize of Rs.50,000/- from the hands of the President, IEI Er G PRABHAKAR, FIE on 18th December, 2011 during the 92nd Annual General Meeting held at Palace Grounds, Bangalore. This coveted achievement could not have been

possible with out the unflinching co-operation and support from all the Members of A P State Centre Committee, Past Chairmen, Past Hon. Secretaries, all Corporate and Non Corporate members, Organisers and Conveners of the various events and Office Staff of IEI, APSC. My special thanks goes to the Chairman and all the members of ECM for their untiring endeavors in organizing various activities at APSC. I thank the President, All Council Members, SDG, DDG, All Directors and Staff at Headquarters of IEI, Chairman of CATE, and Chairmen of Various Division Boards for extending their help and support and guiding the APSC in all its endeavors. Finally I thank all the well wishers who are magnanimous in contributing their mite for the successful conduct of various events at the A P State Centre.

WISH YOU HAPPY AND PROSPEROUS NEW YEAR 2012

T Narayana
Prof T Narayana, FIE
Chairman



T Narayana
Prof. T Narayana, FIE
Chairman

*Wish you a Happy
Prosperous New Year -2012*

&

Pongal

ANDHRA PRADESH STATE CENTRE
COMMITTEE & STAFF

G Sudhakar

Er G Sudhakar, FIE
Hon. Secretary



K Yella Reddy
Dr K Yella Reddy, FIE
Jt. Hon. Secretary

M Kamalakar

Prof. M Kamalakar, FIE
Jt. Hon. Secretary



Chairman
Prof T Narayana, FIE

Hon. Secretary
Er G Sudhakar, FIE

Joint Hon. Secretaries
Prof M Kamalakar, FIE
Dr K Yella Reddy, FIE

Prof. T Narayana, FIE
Prof. G Chandra Mohan Reddy, FIE
Wg.Cdr.V L Nanda Kumar, (Retd), FIE

EDITORIAL BOARD

Dr S Nagabhushana Rao, FIE
Er I S N Raju, FIE
Er G Sudhakar, FIE

VENUE FOR PROGRAMMES

"Visvesvaraya Bhavan" Khairatabad, Hyderabad - 500 004. Ph : 040-2331 4969
Fax : 040-2331 4024, E-mail : ieiapsc@gmail.com Website : www.ieiapsc.org.in

The Institution of Engineers (India)
ANDHRA PRADESH STATE CENTRE



Popular Lecture on "AIR AND WATER QUALITY AND HEALTH GIS" (on the eve of GIS DAY)

Speaker: **Dr I V MURALIKRISHNA, FIE**, Professor and Director (Retd.)
Institute of Science and Technology, JNTU, Hyderabad

21st November, 2011: The Speaker said that the Air and water and health are the basic parameters that need to be addressed for improving the quality of life. The talk addressed issues related to how geospatial technology can be integrated with remote sensing and environmental parameters as an efficient tool to manage and monitor the related issues. The use of spatial technology to air quality data has been brought out in the talk. A survey of the health effects of air pollution has been carried out in 43 critically polluted areas. Government departments have adopted control strategies (for example: air quality, emission, fuel quality standards, and the phasing out of older polluting vehicles, based on their health assessments for the main pollutants) and there are some industry-specific control strategies in place. The health effects of these pollutants have been studied, and predictably, the lungs are the most important route. Many epidemiological studies have already been done in India on particulates and carcinogens, lung function in children, health effects of smoke exposure, and so on. All the findings show that air pollution is associated with negative health impacts and significant health effects are already found at current levels of air pollution. A spatial distribution of the



health effects due to deteriorating air quality has been discussed in the talk. It also showcased how disease statistics and remote sensing can be used to forecast the incidence rates of diseases. A case study was presented on how spatial epidemiology approaches were used to study disease patterns, hotspots and diffusion. The details presented included how statistics and remote sensing can be used to forecast the incidence rate of diseases by applying the empirical Bayes method and illustrate values by diseases mapping. The presenter also showed maps to help in the analyses of the disease patterns in terms of seasonal, population and geographic distribution patterns. The study helped to detect the disease hotspots under different years by using the local spatial autocorrelation analysis. It also showed the use of remote sensing technologies to do the space-time analysis and GIS for investigating and visualizing the spatial diffusion of disease outbreaks. The presentation showed the scope for development of applications of GIS to the basic environmental parameters as well as health and disease mapping. Er I S N Raju, FIE, Former Chief Engineer, CDO & Member, IEI, APSC presided.

NATIONAL ENERGY CONSERVATION WEEK CELEBRATIONS- December 14-20, 2011

Every year, the above celebrations are organized throughout the Country during 14-20 December by various organizations to create and sustain awareness for energy conservation in their respective organizations. As in the past, Energy Conservation Mission (ECM) organized National Energy Conservation Week programmes during the above dates in association with New and Renewable Energy Development Corporation of A P (NREDCAP) the details of which are as follows: Training programme on Rewinding of Motors December-16-20, 2011: Workshop on "Best Practices of Electric Motor Rewinding for Enhanced Energy Efficiency" was inaugurated on Friday 16 Dec' 2011 by Chief Guest, Shri Chandan Mitra, IFS, Vice Chairman and Managing Director, NREDCAP. He emphasized on the need for further increasing the efficiency of re-wound motors more than what it is at present, by following the correct and laid down procedures which would be communicated and discussed with practicals, during the course of the workshop, by the experts in the field. Guest-of-Honour, Shri K Janardhan, GM (Corporate Engineering) Aurabindo Pharma shared his experiences in the industrial field, on wastage and saving of energy. Shri B Ramesh Singh, Proprietor, Balaji

Singh Electrical Works spoke with regard to conducting of theoretical classes, practicals to be carried out, getting feedback and concluding session, from 16-20 December, 2011 The function was well attended by eminent people, electrical re-winders, and others in this field, Wg. Cdr. V L Nanda Kumar (Retd.), Chairman, ECM presided over the function.

Energy Walk - 18 December, 2011: More than 300 students and in addition to persons from likeminded organizations, ECM, NREDCAP and elders participated in the Save Energy Walk at 0730 a.m. on Sunday 18th December, 2011 (being a holiday and convenient to all the participants). The walk was flagged off by Shri Chandan Mitra,





IFS, VC&MD, NREDCAP. Banners and placards with inscriptions of energy Slogans punctuated the procession which started from Peoples Plaza at Necklace Road and terminated at Institution of Engineers (India), A P State Centre premises at Khairatabad, after walking about 2 km distance in an orderly manner. The school children were addressed by Members of ECM and the ECM pledge was administered to all those present. Sumptuous breakfast was served to all the students and other participants of the walk. Students were advised to report back their future efforts at energy saving.

December 20, 2011: (2.00 P.M.): The concluding/summing up session of 4 day Workshop on Best Practices of Electric Motor Rewinding for Enhanced Efficiency" was presided over by Sri Gopala Rao, Chief Engineer (Retd) A P TRANSCO and the outcome of the programme was discussed. A re-wound Motor by one of the re-winders was tested and results analysed. The Lead faculty of the Workshop, Shri B RAMESH SINGH of Balaji Singh Electrical Works discussed with the winders about the findings of the practical winding session and enlightened them how to go about the efficiency calculations in a rewind motor.

On enquiry, the participating re-winders said that they have been highly benefited by the workshop and they appreciated it very much.

December 20, 2011: NEC Week Closing & State Awards Function: National Energy Conservation Week Programme of 2011 concluded with its Closing Ceremony and State Awards function. The function also signified the Eighth Anniversary of ECM, competitions held for students and distribution of State Awards for Energy Conservation to different organizations. The Chief Guest, Shri A Chandrasekhara Reddy, Member Secretary, Energy Coordination Cell, Government

of AP was the Chief Guest. The Chief Guest, in his speech, said that, if the consumers of different categories in the state adopt various energy conservation measures, a substantial amount of energy can be saved. He said that, Energy Conservation Committee (ECC) has estimated that 15105 million units can be saved in the State by practicing energy conservation measures viz. switching over to compact fluorescent lights (CFL) and installation of energy saving devices on agriculture pump sets. He said power availability in the State would go up once the transmission and distribution losses which stood at 17.05 per cent now, were reduced. The Distinguished Guest, Sri Chandan Mitra, IFS, Vice Chairman and MD, New and Renewable Energy Development Corporation of Andhra Pradesh (NREDCAP) stressed on the need for implementing the energy conservation measures. The session was chaired by Prof T Narayana, FIE, Chairman IEI, APSC. Wg. Cdr VL Nanda Kumar (Retd.), FIE chairman, ECM, IEI, APSC, in his welcome address, reiterated the practice of conserving energy in all activities. Er S Yerram Reddy, GM, NREDCAP, Hyderabad gave an overall pen picture about the weeklong National Energy Conservation Week Celebrations. Er. C V Rao, Member, Core Group explained in detail about the various energy conservation measures and activities being conducted by ECM. Chief Guest, Shri A Chandrasekhara



Reddy released the 'Save Energy 2012 Calendar' and gave away the State Energy Conservation Awards to various Industries, Colleges, Energy Managers and Energy Auditors. Cash Awards for the best three re-winders and certificates for other participant re-winders were also given away by him. The function wound up with the administering of ECM PLEDGE to all present and Vote of Thanks by Sri Er R Gopalakrishna, MIE, Principal coordinator, ECM.

Er Yarlagadda Sreeramulu Eighth Endowment Lecture on "INDIA'S TECHNOLOGY NEEDS: NUCLEAR TO RURAL"

Speaker: Padma Vibhushan Dr R CHIDAMBARAM

Principal Scientific Advisor to the Govt. of India & DAE - Home Babha Professor, New Delhi

December 23, 2011: The Speaker, Padma Vibhushan Dr R Chidambaram said that energy was the driver for growth and for India to become a developed country, the per capita electricity consumption must increase by six to eight times and there should be 100 percent literacy without any gender discrimination. He also said that India would become a developed country by 2050 if we put our act together. Energy Security was the foundation for other securities relating to water, food, nutrition, health and environment. The kind of increase in per capita electricity consumption that we are looking for, to improve substantially the human development index, cannot be achieved unless nuclear power plays a very important role in our electricity production. He further said that energy availability and security were essential components of sustainable development



and all sources of energy were important. But nuclear energy was an inevitable and very important option. Nuclear technology was not only for power generation but had applications in medical, agricultural and industrial sectors too. While referring to strategic technologies like nuclear and space and other knowledge based ones, equal importance needed to be given to technologies related to MSMEs (Micro, Small and Medium Enterprises) for accelerated rural development. Earlier, Er G Sudhakar, FIE, Hon. Secretary, IEI, APSC welcomed the gathering, Er T Sugunakara Rao, FIE, Former Member (Technical), APSEB briefed about Er Yarlagadda Sreeramulu Endowment Lecture, Prof. T Narayana, FIE, Chairman, IEI, APSC presided over the function and finally Er Y Harish Chandra Prasad, FIE, Chairman, Malaxmi Group gave vote of thanks.



PROGRAMMES JANUARY, 2012

Date & Time	Event	Chief Guest / Speaker
20.01.2012 Friday 1730 hrs.	Popular Lecture on "Solar Energy for Telecom Towers"	Er Nagendra Narem Circle Head, AP M/s. Viom Networks Ltd., Secunderabad

MEMBER IN THE NEWS

Shri Y NAGESH KUMAR, Principal, KDR Government Polytechnic, Wanaparthy, Mahabubnagar District has been appointed as Member-Secretary, APCOST, Hyderabad. Andhra Pradesh State Centre of The Institution of Engineers (India) extends heartiest congratulations on his appointment as Member-Secretary, APCOST, Hyderabad and for his achievements.



TWENTY FIFTH NATIONAL CONVENTION OF TEXTILE ENGINEERS

and

National Seminar on "THE EMERGING TRENDS IN TEXTILES AND HANDLOOMS"

February 24-25, 2012

Organized by

The Institution of Engineers (India), A P State Centre

For further details: Ph: 040-23314969/23314024 or Please Visit our Website: www.ieiapsc.org.in

ACKNOWLEDGEMENT

The A P State Centre of IEI acknowledges with thanks the following Senior Corporate Members for their spontaneous contributions to the proposed New Building Complex:



Er H V Vijay Kumar, FIE
Rs.10,000/-



Dr C Satyanarayana, FIE
Rs.10,000/-



Er K B V Sitarama Raju, FIE
Rs.5,000/-

Er B Jayarama Gupta, FIE
R.s 10,000/-

Er P Ramachandra Rao, FIE
Rs. 4,000/-

Er M Mallaiah, FIE
Rs.500/-

Printed by Er G Sudhakar, FIE, Hon. Secretary, O/o The Institution of Engineers (India), A P State Centre, Khairatabad, Hyderabad. Published by Er G Sudhakar, FIE, Hon. Secretary, O/o The Institution of Engineers (India), A P State Centre, Khairatabad, Hyderabad on behalf of The Institution of Engineers (India), A P State Centre, Khairatabad, Hyderabad and Printed at M/s Atlas Stationery and Printing Industries, Ashok Nagar, Hyderabad - 500 020 and Published at The Institution of Engineers (India), A P State Centre, Khairatabad, Hyderabad, A P. Editor Er G Sudhakar, FIE, Hon. Secretary, O/o The Institution of Engineers (India), A P State Centre, Khairatabad, Hyderabad - 500 004.

If undelivered please return to :
The Institution of Engineers (India)
A.P. State Centre, Khairatabad, Hyderabad - 4.

To

RNI.No. APBIL/2009/33477
Regd. No. HD/245/2009-11
for the years 2009-11