



IEAP NEWSLETTER

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From the Chairman's Desk

A P State Centre is continuously striving to enhance the activities and help the engineering community to get abreast with the latest developments in the field of engineering and technology. Several technical activities are being organized at the Centre in this direction. During the month of January, we have organized three important events in Water, Power and Transportation sectors, the details are given in the inside pages. Many stalwarts in the respective field have participated in these events. These programmes are oriented to address not only technical issues

but also social and economic aspects. The Seminars conducted during January on Floods, Urban Transportation and Green Power Revolution evoked a lot of interest from the economists, sociologists and other interest parts from the society apart from engineers. We are fortunate that our President, Er Madan Lal was present as Chief Guest for the Seminar on "Moving in Hyderabad - Redefining Public Transport" on 19th January, 2010 and was a Distinguished Guest during the All India Seminar on "Green Power Revolution" on 21st January, 2010.

The Centre has commenced the guidance classes for Sections A & B Examinations of Institution. We are planning to improve the infrastructure facilities in the Assembly Hall and Guest rooms.

We look forward to all our Corporate Members to participate in the activities of the Centre and make the activities successful.

Dr S Nagabhushana Rao
Chairman

Sir M V - Success at your feet

Give exercise to your eyes, turning your eyeballs right and left and 70 times, and up and down 40 times, and massage the eye-lids with fingertips for a few seconds thereafter. This will keep your eyes always fit and you will not need glasses. He added "Walk a few miles everyday to enable you to get good rest and sleep. Take only sufficient food and do not overload. This will give good appetite. Most important do not indulge in petty pleasures. If you adopt these things, success will be at your feet in all your efforts."

Chairman

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VENUE FOR PROGRAMMES :

"Visvesvaraya Bhavan" Khairatabad, Hyderabad - 500 004. Phone : 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

PAST EVENTS

Report on National Energy Conservation Week

December 14 – 20, 2009

The following events were jointly organized by Energy Conservation Mission (ECM) and Non Conventional Energy Development Corporation of Andhra Pradesh (NEDCAP) on the occasion of National Energy Conservation Week (NEC Week), December 14 – 20, 2009.

1. **Energy Walk:** As in the past, a 2-Kilometre Walk from People's Plaza, Necklace Road to Visvesvaraya Bhavan, Khairatabad was programmed at 07:30 AM on December 14, 2009 to mark the commencement of National Energy Conservation Week- 2009. But due to sudden imposition of prohibitory orders effective from December 12, 2009, the programme had to be postponed. Although the prohibitory orders still prevailed, the programme could be successfully conducted on December 20, 2009 (the last day of NEC Week) with the exceptional cooperation from Police Department.



A view in Energy Walk

The Energy Walk at 07:30 AM on December 20, 2009 was flagged off by Shri K V Ramesh, Project Director, NEDCAP.

A 300 strong procession comprising 200 students and teachers of various schools, besides elders, performed the march carrying banners and placards. NEDCAP officials, Members of ECM, Officials of APTRANSCO/APGENCO and other inspired public joined the Walk. Although the walk was intended to be silent, the students and Teachers, especially, couldn't resist uttering slogans exhorting energy conservation, renewable energy and climate change do's & don'ts. The Energy Walk happened to end up crossing the Khairatabad main road opposite Visvesvaraya Bhavan by the close-by foot over-bridge (to avoid inconvenience to the traffic). The garbage and filth on the bridge did not escape the attention of the Walkers who readily managed some broom sticks and swept it clean. This exemplary action, eventually received copious encomiums from public. The Energy Walk concluded with break fast liberally served at Visvesvaraya Bhavan. Before dispersal, the school children were exhorted on the significance of energy conservation, in general and National Energy Conservation Week, in particular.

2. **Prelude to Energy Winter Camp (December 20, 2009 / 1000-1300 Hrs):**

Close on heels of the Energy Walk, a Brain Storming Meet of 30 – 40 college students (most of them from Engineering Institutions) was held under the guidance of **Prof G Gopinath of G Narayanamma Institute of Technology and Science (GNITS) and Er A R Venkatraman, ECM Member.** Mr G Sripath of Vidya Jyothi College of Engineering presented ideas for a possible Energy Winter Camp in January / February, 2010 (analogous to The Energy Summer Camp of May, 2009). Extensive interaction among the students crystallized innovative ideas for the camp. Films on environment interspersed the programme to break the monotony. A quiz was also organized to refresh the memory of the students about facts of energy and environment. **Er K V Ramesh, Project Director, NEDCAP gave away prizes to winners of quiz programme.** The Meet concluded with Lunch.

3. **Interactive Meet of Professors/Principals/Lecturers (Dec 20, 2009 / 1300–1700Hrs) :** The lunch that marked the completion of the Students' Session also marked the commencement of the Interactive Session of the College Faculty. The Session titled "**Energy Audit of My Institution – Objectives of National Solar Mission**" was divided into two distinct parts, presided over by **Er R Gopalakrishna, CEO – Pasigoba Energy Consultants.**

The first part of the Interactive Session was initiated by **Prof G Gopinath of GNITS with a presentation on various aspects of energy and environment relevant to an educational institution.** **Er G K Anand of ECM outlined the Energy Smart Model for Organisations – 2008, evolved jointly by ECM and ESCI** and suggested that institutions could be fitted into the Model for reaping the several benefits envisaged by it. This exercise would help institutions to become smart, not only in energy use but also in the utilization of other resources. **Er Sree Kumar of Prayas Energy Group explained the salient features of a recent energy audit of IIT – Bombay conducted by its own students.**



The Chief Guest lighting the lamp other dignitaries are participated

In the second part of the Interactive Session **Er C V Rao, Director – Prakruthi Power, exhaustively covered the objectives of the National Solar Mission (NSM) launched on November 22, 2009 by Prime Minister of India.** The vast scope in solar energy proliferation opening up consequent to the launch of NSM needs extensive knowledge

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inputs and R & D efforts from engineering institutions. An exclusive presentation on **“Solar Initiatives in Germany” made by Dr Kai Rommel, visiting faculty of a German University, constituted the highlight of the Session.**

About 45 members of college faculty in and around Hyderabad participated in the programme. All of them were provided with knowledge kits in paper bags including a fancy LED lamp which represents the most energy efficient light of the future.

4. ECM Sixth Annual Day, NEC Week & State Awards Function (Dec 20, 09 / 1730 – 1900 Hours):

This is the flagship event of the NEC Week celebrations of 2009. ECM having taken birth during the NEC Week of 2003, the current celebrations mark the **6th Annual Day of ECM. On this occasion, Er C V Rao narrated the activities of ECM and its achievements.** As brought out by him, ECM's voluntary contribution in spreading the message of energy conservation in all walks of life of the society, for the past six years, have been highly significant and transparent.

Er Y Yerram Reddy, General Manager, NEDCAP described the week long programme organized by them through various agencies to create awareness about energy conservation and environmental protection in various sectors of life. Er Reddy also elaborated the efforts made by NEDCAP in organizing an essay competition for students all over the State. NEDCAP, further made strenuous efforts in identifying best energy performers in selected sectors of organizations. Best among Energy Auditors who motivate and catalyze implementation of energy saving measures were also identified for State recognition. The Chief Guest of the function, **Er N Bangaru Raju, Vice Chairman & Managing Director, NEDCAP** distributed prizes to winning school children of essay competition, district wise. The Chief Guest also presented State Awards for Energy Conservation to several energy-conscious industries. Er Bangaru Raju exhorted the audience about various aspects of energy conservation and renewable energy and the positive role being played by NEDCAP, as the Nodal Agency, to make energy conservation happen in the State. The ceremonial valedictory function of the NEC Week was attended by 150-200 audience comprising participants of week-long programme, students, parents, teachers, professors, members of ECM & IEI, representatives of Award receiving industries and their admirers besides officials of NEDCAP and Media persons. Notable among the audience was **Dr Mullapudi Harischandra Prasad, Chairman and Managing Director of Andhra Sugars, the famous industrialist of the State.** The octagenarian industrialist received the State Award on behalf of his company. In his reply to the award, he emotionally recounted the high degree of energy consciousness prevailing in his industrial group, although the same is now recognized by the Govt. of A P.

January 4, 2010: Mr Abel Immaraj, MIE, General Manager, State Water Department, New South Wales, Govt. Corporation, Australia delivering a Popular Lecture on “Australian Water Reform” said *Over the last few decades awareness has grown of the need to sustainably manage the whole water cycle and all of our water resources, including water in rivers, groundwater and other ecosystems such as wetlands and floodplains. Sustainable water management in Australia has therefore become a very complex issue and one that is constantly evolving. Australia is in the midst of implementing a series of major water reform initiatives, which is changing many of the fundamental ways in which water is managed and shared between extractive users and the environment. A key element of the change is the approach of providing an environmental flow share over the full range of flows in rivers. Generally the water reforms have three goals:*

- To better share the available water - by balancing the needs of consumptive water users with the need to maintain a sustainable ecosystem
- To enhance support to the rural sector and the metropolitan water sector - by recognizing that a secure water future is essential to maintaining a productive rural sector and sustainable cities.
- To reshape how water is managed and delivered - by providing avenues for direct community involvement in water management decisions and processes.

The water reform process accelerated in the 1980s, with increasing recognition of environmental needs and changes to institutional and pricing arrangements. This was followed in 1995 and 1997 with a comprehensive set of water policy reform initiatives and the most recent reforms of COAG's National Water Initiative in 2006. With finalization of its policy position on a number of water sharing issues, proposals were developed for updating and consolidating water management legislation and institutions.

The reforms include the following elements: • Federal role in water management • Separation of regulatory and operations roles • Corporate governance for operations utilities • Provision for ensuring ecologically sustainable development outcomes • Provision for community/government partnerships in water management • clearly defined rules and outcomes as well as security for entitlement holders • separation of water rights from land and tradability of water rights • Obligations of users and government.

One Day Seminar on “Recent Floods in Andhra Pradesh: Retrospect and Prospect”

January 12, 2010: During the one day Seminar on “Recent Floods in Andhra Pradesh: Retrospect and Prospect”,

Er G L Rao, FIE, Past President, IEI inaugurated the Seminar and addressed the gathering. In his address, he sought to identify the social and governmental breakdowns which crippled the response to the floods, and ways in which such catastrophes might be prevented in the future. The Seminar identified failures in communication and preparedness as the major culprits for the flood devastation. Though monitoring systems and other safety measures were properly in place, a history of laxity in reservoir maintenance and failure to heed early warning flood detection systems caused the reservoirs to over flow. Unlike some natural disasters like earthquake, floods can be predicted with fairly high accuracy. Er G L Rao suggested that more of these prediction systems are to be put in place, and used effectively. The Keynote Speaker, **Er G Prabhakar**, FIE, Past Chairman, IEI, APSC and Council Member explained that China has advanced well in flood prediction compared to India. Chinese hydrologists have devised their own empirical techniques for flood prediction. He added that these techniques have been around since the 1950's, and we must attempt to use them. He said that the engineers were not in a mood to take the blame on them and he also commented on the said lack of public awareness and poor education for the poor response to floods, and highlighted these as some of the factors in the disaster. **Dr S Nagabhushana Rao**, FIE, Chairman, IEI, APSC presided over the function. Earlier, **Er G Sudhakar**, MIE, Jt. Hon. Secretary welcomed the gathering. Two technical sessions were held following the inaugural session and total six papers were presented.



L-R : Er G Prabhakar, Er G L Rao,
Dr S Nagabhushana Rao and Er G Sudhakar

One Day Seminar on “Moving in Hyderabad – Redefining Public Transport”

January 19, 2010: During the one day Seminar on “Moving in Hyderabad – Redefining Public Transport”, Er Madan Lal, FIE, President, IEI inaugurated the Seminar and addressed the gathering. In his address, he has highlighted the importance of Urban Transport and has illustrated some of the difficulties being faced by people in cities like Delhi, Kolkata, Varanasi etc. He suggested for a sustainable Urban Transportation System to be evolved. The Keynote Speaker, Prof. S Raghava Chari, FIE Transportation Engineering Expert and Formerly Professor, Transportation Engineering, NIT, Warangal has brought out in detail the issues and problems in Urban Transportation and has dealt in detail some of the solutions to traffic problems like construction of bridges across Musi River, additional road links, parking places, truck terminals in addition to removal of obstructions. He also advised to install traffic signals and steps to be taken for sustainable working of them. Prof. Chari strongly advised to reinforce the Transport Systems Management (TSM) actions by instituting technical cells in all the concerned Departments and Corporations who should plan and monitor the traffic operations continuously. He also suggested to allocate appropriate budget to meet the requirements. The need for Unified Metropolitan Transport Authority (UMTA) with structured organization with working groups upto ground level, for effective implementation of the traffic operations is reiterated. He has elaborated the need of providing efficient Public Transportation System as per the need. Dr S Nagabhushana Rao, FIE, Chairman, IEI, APSC presided over and moderated the presentations. Initiating the discussion, Dr Rao highlighted the need to take up the Urban Transportation issues in a holistic manner encompassing all the activities by all concerned departments, duly assessing the travel demand and providing appropriate Public Transport modes with good co-ordination. Earlier, Prof. T Narayana, FIE, Hon. Secretary welcomed the gathering and Er G Sudhakar, MIE, Jt. Hon. Secretary, IEI APSC proposed vote of thanks. Presentations were made by Sri N V S Reddy, Managing Director, Hyderabad Metro Rail Limited, and Shri G Satyanarayana, Chief Manager, APSRTC and other Transport Experts on Public Transportation in Hyderabad during the two technical sessions.



The Chief Guest, Er Madanal lighting the lamp other dignitaries are also participated

FELICITATION

The President, IEI, **Er Madan Lal**, FIE visited A P State Centre for the first time on 19.01.2010 after assuming the charge as President of IEI. During the Seminar on “Moving in Hyderabad – Redefining Public Transport” wherein Er Madan Lal was the Chief Guest. **Er G L Rao**, FIE, Past President, IEI felicitated the President, IEI, **Er Madan Lal**, FIE on behalf of A P State Centre. The President addressed the gathering and conveyed his thanks to the Corporate Members of IEI, A P State Centre Committee Members and all other participants in the Seminar. He also appreciated that A P State Centre of IEI has been acknowledged over the years as an active and dynamic Centre with best performance in organizing various activities from time to time. He also reiterated his attachment to A P State Centre since a long time. All the participants have honoured the president profusely.



All India Seminar on “Green Power Revolution” January 21 & 22, 2010

The All India Seminar on **Green Power Revolution** organized by Energy Conservation Mission of IEI, APSC on January 21 & 22, 2010 at Katriya Hotel and Towers, Somajiguda, Hyderabad was a unique event. It was remarkable that the participant strength was far in excess of the 150 number.

Hon'ble Speaker of A P State Legislative Assembly **Shri N Kiran Kumar Reddy**, was the Chief Guest of the Inaugural Session on January 21, 2010. Inaugurating the seminar, the Chief Guest said that there is an urgent necessity to protect the environment by generating clean and green energy through renewable sources. In the backdrop of the recent launching of National Solar Mission by Shri Man Mohan Singh, the Hon'ble Prime Minister of India, this aspect has assumed great significance. The Chief Guest assured that the Government would consider the implementation of the recommendations of the Seminar. The Chief Guest pointed out that, today, there is no development possible without electricity and in daily life, there is no quality without electricity. If we go on using coal for the generation of electricity, the resource will soon get exhausted. By the use of non-conventional energy, however, we can conserve coal. There is therefore, the need to generate electricity through solar, wind and biomass routes. The Chief Guest said that A P has already installed several wind mills for power generation and the solar kitchen installation at Tirumala is among the biggest in the country. He is sanguine that the State would take a major share out of the 20, 000 MW solar power generation targeted for the country by 2022. He invited the industrialists to avail of the congenial conditions prevailing in the State to make their investments. He assured them that the slight disturbances in the State would soon vanish.



L-R : Shri Ravinder Raina, Shri T L Sankar, Er Madanlal, Dr S Nagabhushana Rao, Shri N Kiran Kumar Reddy, Shri N Uttam Kumar Reddy, and Wg dr VL Nanda Kumar

The Distinguished Guest, **Er Madan Lal**, FIE President, The Institution of Engineers (India), spoke about the multi-disciplinary professional body of Engineers of the country, the biggest in the world and narrated its activities and strengths. He expressed happiness over the initiative of Energy Conservation Mission to engender the Green Power Revolution in the country. He assured that the 97 centres of the Institution would render the necessary support.

Guest of Honour, **Shri N Uttam Kumar Reddy**, MLA, Chairman, Estimates Committee, A P Legislative Assembly and President, Solar Energy Society of India (SESI), A P Chapter gave an account of the applications of Solar Energy and its utilization in India and abroad and **Shri T L Sankar**, IAS (Retd.), Former Chairman, APSEB explained the limitations of solar power generation, as of now and the need for extensive R & D to improve its practical viability.

In his Keynote address, **Shri Ravindra Raina**, President, Astonfield Management Consultancy Pvt. Ltd, Mumbai stated the enormous potential of Solar Energy in India (available for at least 250 days in a year), professed the need for its exploitation as in Germany. At present, the share of solar energy in the total power generation in India is a meagre 1% and it has to undergo a sea change to ensure energy security for the Nation.

Earlier **Dr S Nagabhushana Rao**, Chairman, IEI-APSC gave his opening remarks and **Wg Cdr V L Nanda Kumar** (Retd), FIE Chairman, ECM welcomed the participants while rendering the bio-data of the Guests. **Dr E V R Sastry**, Former Advisor, Ministry of New and Renewable Energy (MNRE) and Chairman, Programme Committee spoke about the concept of the seminar and the efforts went into its realization. **Prof T Narayana**, FIE, Hon. Secretary, IEI, APSC proposed a fitting vote of thanks.

Altogether, twenty two speakers, mostly drawn from all over the country, outside Hyderabad, have presented papers on renewable energy technologies, case studies of grid connected, megawatt-scale solar power stations, policy matters, financial options and government incentives. The participants interacted extensively and exchanged views.

The Valedictory Session opened with the detailed account of ECM activities by **Wg Cdr V L Nanda Kumar** (Retd), FIE. Welcome address was delivered by **Er P Srirama Raju**, Convener of Programme Committee. **Dr E V R Sastry**, Chairman, Programme Committee presented the Seminar Recommendations. The Chief Guest, **Dr D N Reddy**, Vice Chancellor, JNTU-Hyderabad gave an illuminating talk on the development of various resources of renewable energy and complemented the organizers of the Seminar of the exclusive concept.

The programme concluded with a vote of Thanks all sponsors, co-sponsors, advertisers, delegates, press and all those behind the scenes by **Er P N Rao**, FIE Convener of the Organising Committee.



L-R : Dr EVR Sastry, Prof D N Reddy, Wg dr VL Nanda Kumar and Er P Srirama Raju

PROGRAMMES FEBRUARY - MARCH, 2010

Date & Time	Event	Chief Guest / Speaker
01.02.2010 Monday 1730 hrs.	One day Seminar on " Challenges and Opportunities in Aeronautics "	Shri B S Sastry Project Director (Retd.), Secondary Power System Hydraulic & Electric Power System, Light Combat Aircraft, MOD, GOI
01.03.2010 Monday 1730 hrs.	Dr J Purushottam Fifth Endowment Lecture	
03.03.2010 Wednesday 1730 hrs.	EIGHTH IRRIGATION DAY (on the eve of 84 th Birth day Celebrations of Dr K Sriramakrishnaiah)	
04.03.2010 Thursday 1730 hrs.	NATIONAL SAFETY DAY	
22.03.2010 Monday	WORLD WATER DAY	
25.03.2010 Thursday 1000 hrs.	One Day Seminar on " Power Trading "	

Dear Corporate Member,

We are bringing out Monthly Newsletter in Multi-colour since December, 2007 and several members while appreciating our effort, suggested to continue to publish monthly newsletter in multi-colour only. Responding to our appeal, **M/s LIC Housing Finance Ltd., M/s SEW Constructions Ltd., M/s KAB Educational Consultants; M/s PBEL Property Development (India) Pvt. Ltd.; M/s Sri Ujwala Infrastructures Pvt. Ltd.; M/s TUV SUD South Asia Pvt. Ltd. and M/s KVP Group of Companies** have come forward and advertised the profile of their firms/Organisation.

We solicit the kind support of all Corporate Members to prevail upon the reputed organizations with a request to sponsor our Monthly Newsletter through a nominal contribution of Rs.25,000/- for full page; Rs.12,500/- Half page and Rs.7,000/- for Quarter page. In reciprocation of this gesture, the profile of sponsoring organization will be included in that particular issue.

Hon. Secretary

GUIDELINES OF THE GUEST HOUSE OCCUPATION

- Accommodation will be reserved only on a requisition letter, fax or e-mail from members.
- Confirmation from the Hon. Secretary of the Centre is to be obtained before arriving at the Guest House.
- The tariff applicable to for members and non-members is strictly adhered to. The person occupying the Guest House will be entitled to concession, if he is a member. Otherwise non-member charges will be levied. The names of persons for whom reservation is sought shall be given in the requisition.
- In case, the members of IEI reserve the guest house but occupied by non-Members the tariff as applicable to non-members will be charged.
- The tariff for occupation of guest house per Room:

For Member	AC	Rs. 400/- per day
	Non-AC	Rs. 250/- per day
For Non-Member	AC	Rs. 600/- per day
	Non-AC	Rs. 400/- per day

+ Service Tax 10.30% extra on the above
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The Hon. Secretary
The Institution of Engineers (India)
A P State Centre, Khairatabad, Hyderabad- 500 004.
Fax No: 040-23314024, e.mail:ieiapsc@gmail.com

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