

# The Institution of Engineers (India)

U.P. State Centre, Lucknow

"94 Years of Relentless Journey Towards Engineering Advancement for Nation Building"

• e-mail: upsc@ieindia.org

• website : www.ieiup.org.in

• Phone : 0522-2625322

Vol. XXIII

ISSUE: 9-10

September–October, 2014

## From Chairman's Desk



### Bidding Adieu !

Dear Fellow Engineer,

This is my last letter to you as Chairman, IEI, UP State Centre as I will be demitting the charge in the coming AGM scheduled on Nov. 30, 2014. The present team tried best at it's level for the betterment of the Centre. During the period, the Centre organized a number of Seminars, Workshops, National Days, Social gatherings, Lecture Meetings etc. The Centre has privilege to host **30<sup>th</sup> National Convention of Mechanical Engineers**. This is the first ever National Convention of any branch organized by the Centre in it's history. The guidance classes for AMIE were also started during this period. The Auditorium has been completely renovated by providing new false ceiling, new wall panelling, vitrified tile flooring & air-conditioning. The Committee Room has also been completely renovated. A new D.G. Set of 10 KW has been installed for uninterrupted power supply. However you are the best judge to evaluate our performance. At this juncture, I can only say-

माना कि इस जमीं को न गुलजार कर सके हम

कुछ ख़ार तो किए कम गुजरे जिधर से हम

Back to regular for this column regarding technical activities, the period under reference started with **Engineers' Day** on **Sept. 15, 2014**. A record gathering was seen on the occasion making the function highly successful. **30<sup>th</sup> National Convention of Mechanical Engineers** was successfully organized on **Sept 27-28, 2014** at Gorakhpur. I am extremely thankful to Convener **Prof. (Dr.) Onkar Singh**, Vice Chancellor, MMM University of Technology, Gorakhpur and **Dr SK Srivastava**, Organising Secretary who burnt mid night oil to make it most successful. This was followed by **World Habitat Day** celebration on **Oct. 06, 2014**. This activity was again a successful one. Thanks to Convener **Er MK Goel**, SCC Member. A Lecture Meeting on '**Stress Management for Engineers**' was also organized on **Oct. 06, 2014**. The speaker was **Dr Latashree Srivastava**, an expert on Alternative Medicine from Indore. Members took keen interest in the activity and found it very useful. **World Standard Day** was successfully celebrated on **Oct. 14, 2014**. '**Deepawali Milan**' was organized for members & their families on **Oct. 26, 2014** which was attended in large number. A Seminar on '**Sources of Planet Energy, Environmental Disaster Science: Challenges and Strategies-2014**' was successfully organized on **Nov. 1-2, 2014** in association with School of Management Science, Lucknow. Thanks to Convener **Dr BR Singh**. Finally Seminar on '**Fire & Disaster Management**' was successfully organized on **Nov. 07, 2014** which was again very well attended.

I take this opportunity to thank you all from core of my heart for your unstinted support, encouragement & blessings. I am also grateful to SCC members for their cooperation, valuable suggestions & guidance. I extend my good wishes to the incoming Chairman Er AK Gupta & Hony. Secretary Er Praveen Malhotra for their successful & splendid tenure of coming two years. Thank you once again.

With best wishes & regards.

**V. B. Singh**, FIE  
Chairman

## Er. A K Gupta, FIE : Our new Chairman of IE(I), UP State Centre for the Session 2014-16



Er. Arvind Kumar Gupta, BE(Civil), ME (Highways & Traffic Engg.) both from Roorkee University (now IIT), started his career as Engineer (Civil) at Narora Atomic Power Project. After serving one year in U.P. Jal Nigam joined Public Works Department in 1979 as Assistant Engineer. He has worked as Executive Engineer in National Highways Division and remained on deputation with National Highway Authority of India for 4 years. He got constructed the first Four laning in Uttar Pradesh i.e. from Mathura to Agra. He has got the three years experience of Hill roads and bridges thereon. He has been associated as Executive Engineer, Superintending Engineer and Chief Engineer, with all type of roads and bridges throughout his carrier. He has worked as Chief Engineer, National Highways in Uttar Pradesh. He has worked as Managing Director, U.P. Rajkiya Nirman Nigam Ltd and Managing Director, U. P. State Bridge Corporation Ltd. During his tenure U.P. State Bridge Corporation has completed 100 bridges in one year and has got two International Awards. He got completed one ROB in record time of nine months. He has got the Abhiyanta Gaurav Award in 2013. At present he is working as Engineer-in-Chief (Development) & Head of Department of U.P. Public Works Department.

## Er. Praveen Malhotra, FIE : Our new Honorary Secretary of IE(I), UP State Centre for the Session 2014-16



Er. Praveen Malhotra completed B. Tech (Electronics) in 1975 from IT-BHU. In 1976, on the basis of merit achieved in BHU, he was appointed by UPSEB as AE and was posted as SDO (Distribution) at Bahraich. After a year, he was transferred to a newly created Microwave & Telecom Circle as SDO (Microwave) at Lucknow. He worked in Microwave for 11 years at Lucknow and 4 years at Meerut. During this tenure, he got appreciation letters, from various levels including the Chairman. In 1986, British Council chose him for '*Power System Communication*' training in United Kingdom. A month in Cambridge College of Arts & Technology, Cambridge & 2 months in Eastern Electricity Board of UK. For one & a half year, he was AE in Communication & Computerisation Design Circle. For 5 years, from 1994, he was on deputation with U.P. Jal Vidyut Nigam as EE and worked for small hydro projects. In 1999, he was called back by UPSEB for U.P. part of 'Unified Scheme'. He was sent to Japan for one month for '*Fibre-optic Communication*' training at Fujitsu, NTT Japan & Furukawa Electric Company, Japan. In 2006, he was posted as SE, Microwave & Telecom Circle. In 2010, he took-over charge of the Chief Engineer (Communication & Control). After retirement in July 2011, he was reappointed as Advisor for Communication & SCADA of UPPTCL for 8 months.

## Forthcoming Events at IEI, U.P. State Centre

Sl.No.	Date	Event
01.	Nov 19, 2014 (05.15pm)	Lecture on 'Implementing Service Excellence in Technology & other Sectors'
02.	Nov 29, 2014 (03.00 pm)	Annual Technical Session
03.	<b>Nov 30, 2014 (10.00 am)</b>	<b>94th Annual General Meeting</b>
04.	Dec 14, 2014 (05.30 pm)	Energy Conservation Day

## Report on Engineers' Day Celebration 2014

The Institution of Engineers (India), UP State Centre celebrated Engineers' Day on Sept. 15, 2014 to commemorate the birthday of great Engineer of the country Bharat Ratna Sir M Visvesvaraya. The Chief Guest Mr N C Bajpei, Dy. Chairman, State Planning Commission & Former Chief Secretary, UP Govt. inaugurated the function & said that the development of any country depends on it's engineers. If we want rapid development & industrialization, then engineers will have to be given their due place in the society. He also urged the engineers to always update their technical knowledge & keep abreast with latest techniques. He further exhorted engineers to develop indigenous techniques best suited to our conditions as the World-class Engineering may differ from nation to nation. Chief Guest Mr NC Bajpei also released the Souvenir brought out on the occasion. Er AK Gupta, SCC Member presented the life sketch & achievements of Sir M Visvesvaraya.



*(L-R) Er JS Mishra, Mr Sul Khan Singh, Mr NC Bajpei, Er VB Singh & Er Pramod Kumar*

The Keynote Speaker Mr Pramod Kumar, Addl. Director General, RDSO, Ministry of Railways said that the theme of the day- 'Making Indian Engineering World-class' is very apt as there is an all-round general impression that the engineers, are not delivering the desired quality - leave aside the world class quality. Such occasions like Engineers' Day give us an opportunity to see our weaknesses with a critical eye so that we can take corrective action so as to achieve excellence in our profession. Engineering is very wide term and encompasses so many trades other than civil engineering, such as mechanical, automobile, avionics, space, IT & Computer technologies etc. etc. whereas India has made very significant stride in the field of space engineering, IT & computers, we lag behind in the field of civil engineering. Not that, we don't have the world class engineers. We have. Our engineers can compete with the best if they are given proper environment and free hand in their work. But, somehow our overall reputation is not that encouraging. It is the civil engineering which is most visible from outside and makes most impact on the eyes of visitors. Therefore, if we can improve in this field, it will go a long way to make an attitudinal change of the world towards India. Whereas, we can equal the best in the field of planning, designing & execution of a standalone project; however, when it comes to integrated development of any infrastructure project, we are found wanting. It is our mega cities/ towns that are totally mismanaged and project the poor picture of the country. Therefore, my major emphasis today is in reference to development of new towns & related infrastructure. When we talk of any World Class standard, we certainly imagine of the best practices/ standard generally followed in developed countries & in emerging economics. So when we talk about world class engineering, we have in mind the best cities having efficient planning, efficient sewerage & drainage



*A section of audience*

system, buildings which are not only appealing to our eyes but are also environment friendly and energy efficient. Today we have concept of green buildings. We also think of good roads and good transportation system where the commuters & visitors have least hassles in performing their journey and reaching their destination. We also think that the city is users' friendly that can be used even by the physically challenged or differently abled people without any problem and most importantly we want to see the cities as clean cities. These are the parameters by which we can judge our towns/ cities/ individual settlements and thus Indian Engineering of present era & these are the challenges too in front of engineering fraternity if we have to put the Indian Engineering on the pedestal of best.

It is not that India has not produced world class buildings/ structures. We had beautiful Taj, Buland Darwaja at Sikri, Hawa Mahal In Jaipur, Gol Gumbad of Bijapur, Gardens of Srinagar & Pinjore, Brindavan garden of Mysore, planned cities of New Delhi, Chandigarh & Bhubaneshwar so on so forth. All are beautiful example of excellent engineering of our country. But, all these engineering marvels are creation of pre independence era. If we go further down in the history, then we can feel proud of one of the most ancient planned city of Mohenjo-Daro & Harappa of Indus Valley civilization. Then, thereafter we can think of our great Hindu Temples, each one is a master craft which stand till today as the testimony to our great skill of Architecture and engineering. However, we as engineers, feel sorry when we talk of modern post independence era. We have very few examples of engineering marvel which can stand to the scrutiny of world standard like Delhi Metro, Akshardham Temple, cable stayed bridge of Bandra-Worli section, Link Project, Mumbai etc.

However, majority of our cities/ towns, give a sense of desperation, as hardly there is any one which comes true on these parameters as described above, be it drainage, sewerage, conditions of roads, system of transportation or cleanliness. So we can adopt following suggestions to put the things right :-

- 1) Each city has to have its master plan with a vision of next 50/100 years. 50 for small to medium towns (say upto population of 1 million and 100 for cities having population more than 1 million).
- 2) We have to have an integrated approach in our town development which would have consideration to all major factors like : drainage, sewerage, disposal of solid plastic hazardous waste, water supply including water harvesting, green building, laying of electrical/telecom and other utility wires/pipe lines, road planning & traffic management plan to name a few.
- 3) Complete stop to illegal settlements, of course it depends a lot

- on political will & socio-economic factors.
- 4) Major expansion on practical engineering education rather than theoretical approach. It would require major overhaul in our technical education system.
  - 5) More student exchange programmes with advanced engineering institutes abroad.
  - 6) Changing bye-laws of construction of any building or development of any residential/ commercial complex. In Malaysia, I noticed that nobody could construct any building without first appointing a government approved architect who shall make all submission to local authorities.

He concluded by saying that the things are changing quite fast in our country also. Now, we are talking of smart cities and high speed bullet trains. We have already constructed substantial express ways, more are coming up. Almost all big cities have started metro rail projects which could address the problems of intra city travel to a great extent. Similarly manufacturing sector in Defense is opening up. 100% FDI has been permitted by the government in high speed sector of railways. So all these activities would expose our engineers to latest technology in the field and thus would further their vision and capability. I have hope that India would certainly have sound infrastructure in place in coming 15-20 years and would have new modern/smart towns which would be matching with the best in the world in every parameter.

Mr. Sulkhan Singh, IPS, Director General Police(Training) who was Guest of Honour on the occasion, expressed need to entrust the Institution of Engineers(India) the responsibility of fixing & enforcing the norms for various engineering works and also accreditation of engineering education in India.

Earlier Mr V B Singh, Chairman, The Institution of Engineers (India), UP State Centre while welcoming the guests said that the Indian Engineers are in no way less in comparison to the engineers of advance countries. Our Engineers have established their worth overseas in the field of information technology. Our Indian companies have become multi-national companies. Tata Motors has acquired Dawoo in Korea and Jaguar in England which were running in losses and after acquisition they are in profit. This all may be attributed to our Indian Engineers. However there is some scope for betterment. So this is time for introspection and deliberations to make our Indian Engineering superb. In the end Mr J S Mishra, Hony. Secretary proposed vote of thanks.

### Report on 'World Standard Day-2014'

The World Standards Day was celebrated on Oct. 14, 2014. Dr RK Bajaj, Director & Head, Bureau of Indian Standard was the Chief Guest on the occasion who said that we are living in a world that is undergoing profound transformations at all levels. Economies have never been more interdependent. Today, products that are consumed in one market are no longer made in one country; they are



(L-R) Mr SC Jain, Mr JS Mishra & Chief Guest Dr RK Bajaj

Cond. on page 4 colmn 1

### Report on 30<sup>th</sup> National Convention of Mechanical Engineers (Sept 27-28, 2014)

The UP State Centre of the Institution of Engineers (India) organized the 30<sup>th</sup> National Convention of Mechanical Engineers during September 27-28, 2014 on the theme 'Green Technology in Power Sector' at Gorakhpur. Shri Mata Prasad Pandey, Hon'ble Speaker, Legislative Assembly, Uttar Pradesh graced the occasion as



(L-R) Mr JS Mishra, Prof. Onkar Singh, Mr VB Singh, Dr Wooday P Krishna & Chief Guest Shri MP Pandey

Chief Guest. In his inaugural address, Shri Pandey focused on the limited conventional resources and different aspects, needs and significance of non-conventional energy. He further emphasized upon importance of bio-mass fuel, generation of electricity through solar power, wind power and other non-conventional resources. He also mentioned the gap between demand and supply of electricity and opined that to meet the demand, application of non-conventional energy resources be enhanced in a cost effective manner. Chief Guest also released the proceedings of the National Seminar & Souvenir brought out on the occasion. Dr Wooday P Krishna, Chairman, MCDB presided over the function. Dr Krishna explained that the electrical power is the most crucial infrastructural input with a significant influence on the economic growth and prosperity of the country. He mentioned that renewable energy is receiving the importance it deserves in terms of capacity addition to meet the ever-increasing energy demand in near future. He explained different aspects of National Solar Mission Programme, unveiled by Government of India and represented green technology as a transition from fossil fuels to new and renewable energy. He further emphasized on adopting sustainability by improving energy efficiency and by applying less energy-intensive raw materials.

Five eminent Mechanical Engineering personalities were felicitated on this occasion-

- Mr Sharad Anand, Regional Executive Director (Northern Region), NTPC Lucknow
- Prof (Dr) Nalinaksh S Vyas, Vice Chancellor, Rajasthan Technical University, Kota
- Prof (Dr) Pradeep Kumar, Vice Chancellor, Delhi Technological University, New Delhi
- Mr Sunil Kumar Sood, Senior Manager, Environment Engineering Department, MECON Ltd, Ranchi
- Mr R A Sharma, Managing Director, Master Consultancy & Productivity Pvt Ltd, Secunderabad

The Young Engineer Award in Mechanical Engineering Division for 2014-15 were presented to-

- Dr Arvind Kumar, Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology Kanpur
- Dr Vivek Devidas Kalyankar, Assistant Professor, Mechanical Engineering Department, Sardar Vallabhbhai National Institute of Technology, Surat
- Dr Rajneesh Bhardwaj, Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology Bombay, Mumbai

The Dr S C Bhattacharyya Memorial Lecture was delivered by Dr V Ganesan, Professor Emeritus, IIT, Chennai on the theme 'From Horse Power to Horsepower'. He explained the revolution of automotive transportation and different aspects of automobile energy sector. He further explained the emerging trend, automotive telematics and its' practical applications. He also explained recent trends in the development of engines including Stratified Charged Engine, Wankel Engine, Lean Burn Engines, Stirling Engines and so on. He further emphasized upon ongoing research of Hydrogen technology.

The Dr S P Luthra Memorial Lecture was delivered by Prof (Dr) Souvik Bhattacharyya, FNAE, Deputy Director, IIT Kharagpur on the theme 'Respite, Prospice Mechanical Engineering'. Prof Bhattacharyya explained the theme as look behind, look ahead and examine the past and future. He explained different aspects of better Mechanical Engineering Education, that include drivers for change, importance of different technical and non-technical skills, enhancement of group projects, faculty expertise on professional practices with enhanced curricular flexibility and enriched design-build test. He further emphasized upon convergence of policies, enhancement of professional skills, inverted situations etc to obtain the best result in mechanical engineering education. He also explained the need of Data Analytics skills, academic discipline with more flexibility, employment of novel pedagogic techniques, concept of flipped classrooms and 3D additive bio printing with microfluidics.

Earlier, Mr VB Singh, Chairman, Uttar Pradesh State Centre delivered the welcome address & said that it is a matter of pride for IEI, UP State Centre as it is the first ever National Convention of any branch being hosted by it. Prof (Dr) Onkar Singh, Vice Chancellor, MMM University of Technology & Convenor gave overview of the theme of the Convention. Mr JS Mishra, Hony. Secretary spoke about the activities of IEI. Dr SK Srivastava, Organising Secretary, proposed the vote of thanks.

A National Seminar on the theme 'Green Technology in Power Sector' was also organized on this occasion wherein twenty two papers were presented & deliberated over two days in four technical sessions including three special lectures.

*Contd. from page 3 column 1*

made in the world. Before they get to the end-consumer, they transit through many countries where manpower or parts add value to the final product. Small and medium enterprises that use international standards will find it easier to get their products certified and are better able to compete and sell anywhere in the world. In a multi-polar world, where the influence and economic weight of emerging economies is shifting the balance of power, international standards stimulate trade, overcome artificial trade barriers and help level the playing field. This makes companies, industries and economies more competitive, making it easier for them to export, and stimulates diversification nationally and internationally. Earlier Mr JS Mishra, Hony. Secretary, The Institution of Engineers (India), UP State Centre welcomed the guests. The programme ended with vote of thanks by him.

## Report on World Habitat Day

The Institution of Engineers (India), UP State Centre celebrated World Habitat Day on the theme 'Voices from Slums' on Oct. 06, 2014. On this occasion well known Architect & Town Planner Prof. Subodh Shankar from Amity University was the Chief Guest. On this occasion Chief Guest Mr Subodh Shankar said that the rapid urbanization and government apathy towards poor people are mainly responsible for emerging the slums as major challenge in entire world. According the United Nations Organization 10 million people will be forced to stay in slums by the year 2022. As we know that in these colonies people have to live the most miserable life, there is scarcity of pure water and toilet facility with the result that most of the residents are infected with diseases. The slums have emerged in huge number in various parts of India. In Asia the biggest slum is located in Dharavi of Mumbai. According the available figures, slum is situated in about 600 acre area and about 0.10 million people are residing. Also recently a film 'Slum Dog Millioner' was released on this slum. Whereas slums are like a blot, on the



*(L to R) Mr JS Mishra, Prof. Subodh Shankar & Mr VB Singh*

other side there is also a positive aspect. It is that place where garbage collecting workers, labours, rickshawpullar and helpers working at home are residing. In Mumbai, Dharavi is known as an important industrial area in whole world. Here business of about 3000 crores annually is done. Leather articles made in this slums are exported overseas. Their houses/hutments are also made from old unserviceable & obsolete items. In slums recycling of waste material like empty plastic bottles etc is also done. Hence the slums may be called eco-friendly. As there living cost is minimal hence worker and labours from these area are available at cheap rates reducing thereby the manufacturing cost. Helpers working at homes are also available from slums. It has also been observed that there is no cast discrimination among them so it is also helping in social equity and unity. On this occasion in the message released by U N Habitat Executive Director Dr John Closs said that attention will be paid this year on poor condition of slums. According to him slum dwellers are most affected by climate change. So he called for infrastructure development in slums on one hand and necessary modification in town planning process so that new slums are not created.

The event was presided by Mr V B Singh, Chairman, The Institution of Engineers (India), UP State Centre who said that out of 240 million families of our county 30 percent families are not having proper housing facility because of their poverty. Even 400 million citizens are not having toilet facility in our country. At the beginning of 12<sup>th</sup> five year plan in the year 2012 there was shortage of 18.8

million houses in our country. Out of it 96 percent belonged to economically weaker section people. We have no sufficient funds to meet out this gap of dwelling units. So in such situation we need to utilize the available resources prudently for constructing maximum houses for poor people. But we will have to do so without compromising with the quality. Finally Mr JS Mishra, Hony. Secretary moved vote of thanks.

## Report on Seminar on 'Fire & Disaster Management'

The Institution of Engineers (India), UP State Centre & Institution of Fire Engineers, UP Branch jointly organized one-day Seminar on 'Fire & Disaster Management' on Nov. 07, 2014. The Chief Guest Prof(Dr) Abhishek Mishra, Minister for Vocational Education & Skill Development, UP Govt. inaugurated the Seminar and said that the fire is an important source of energy. But it can be utilized for the benefit of humenbeings only when we are able to control it. If we will not control it will cause havoc. In western countries forests often



(L-R) Er JS Mishra, Mr Praveen Singh, Prof(Dr) Abhishek Mishra & Er VB Singh

catch fire and it is impossible to extinguish it. We are lucky that we do not face this disaster in our country. He stressed on use of latest technology & equipments for fire fighting. He laid emphasis on training of fire personnels for fire fighting in tall buildings. He also suggested that fire fighting subject should be included in the syllabus of schools for students. He assured all possible help in this regard from the government side. Chief Guest Prof (Dr) Abhishek Mishra also released Souvenir brought out on the occasion. Guest of Honour Mr Praveen Singh, IPS, Director General (Fire Services), UP Govt. said that we have Hydraulic Platforms of 42 Meter height for fire fighting in multi-storied buildings. We are also considering the use of helicopters for controlling fire in 90 meter & above high rise buildings. Mr P K Rao, Joint Director ( Fire Services), UP Govt. said that while planning cities the arrangement of fire-safety must be made. Mr VB Singh, Chairman, The Institution of Engineers (India), UP State Centre welcomed the guests and said that the provision of



Chief Guest Prof (Dr) Abishek Mishra releasing the Souvenir

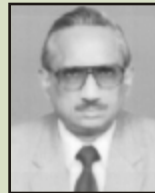
Cond. on page 6 colmn 2

## Long live our Platinum Jubilee Members

### Bio-Data of Platinum Jubilee Members



**Er Amrit Lal Kalra-** Born on 04.08.1935, AMIE in Civil Engg. Joined Railways in 1959 and worked in various projects. Joined RDSO, Lucknow In 1964 and worked on several posts and retired as Joint Director Research (Geo-Tech. Engg.) in 1993. Also worked in RITES for 2 Years and UP Bhumi Sudhar Nigam for 1 year . Since 1993, working as a Valuer of Immovable Property and is on the panel of various banks and also working for Income Tax Deptt. as a Registered Valuer.



**Er Brij Mohan Lal-** He Joined UP PWD (Building and Roads) on 14.12.1962, served the organization for about 35 years as Assistant Engineer, Executive Engineer and Superintending Engineer in various districts of U.P., retired on 31.07.1997 as Director of World Bank Projects, namely, widening, strengthening and restructuring of Faizabad-Allahabad road and Varanasi-Shaktinagar highway, after retirement joined Indian Railways Welfare Organization (I.R.W.O.) as General Manager at Chandigarh, and constructed multi-storied residential project meant for railway staff.



**Er CP Mahalwala-** Passed B.E. (Telecommunication) from Roorkee University in 1960 after B.Sc. from Allahabad University in 1957. Joined Research Deptt. of AIR in 1961 and served at various centres of AIR & Doordarshan including its' Staff Training School at Lucknow. After retirement, served as Prof & Head of Computer Engg at Northern India Engg. College & Prof. & Head of Electronic Engg. at SRSM College of Engg. & Management Lucknow and as visiting Professor at Sagar Institute of Engg & Management, Barabanki.



**Er DRA Tahilyani-** Born on 04.12.38, B.Tech(1960) & M. Tech(1961) in Civil Engg. from IIT Kharagpur. Joined UP Irrigation Deptt. in Sept. 1961 as AE & Retired in Dec. 1996 as Chief Engineer. Also worked with CWPC & Mandi Parishad as Joint Director. Worked abroad in Nigeria & Germany also. Providing technical services to various organizations after retirement. Member of various technical organizations.

**Prof. GS Bhargava-** Retired Principal, Government Central Textile Institute, Kanpur, PG in Maths from Agra University. Later did Graduation & Post Graduation in Textiles with Honours from Technological Institute of Textiles, Bhiwani (Punjab University). To his credit he has 27 reviewed and research papers & publications. Has supervised five research Scholars for Ph.D. under CSJM University, Kanpur. He is awardee of "Life Time Achievement Award" for promoting Textile Education by Textile Association (India), Delhi Unit. Worked as Advisor/Member of the Selection Committees for UPSC, UPPSC, BIC, & NTC. Presently Advisor cum Administrator of Advance Group of Colleges, Kanpur.



**Er Krishna Behari Shukla-** Born on 12.03.1939, B.Sc., B.E. from Roorkee University in 1962. Joined U.P. State Training Service in Deptt. of Labour and retired as Additional Director, Training & Employment. Also served on deputation as (a) Chief Administrative cum Liaison Officer, IFFCO, Phulpur, Allahabad (b) Director of Technical Education UP (c) Member Secretary, UP Pollution Control Board (d) Managing Director, UP Agro Industrial

**Corporation;** Retired on 31.03.1997. Advisor- Narang Industries / Breweries Ltd., New Delhi/Nawabganj (1998-2004), Indian Hotel & Health Resorts, New Delhi (2000-01), National Industrial Corporation (1998-2006), DLF Ltd. (2006-07), OMAXE Ltd. (2006-08), Chairman IEM, Lucknow (2 years), Member, Board of UP Handloom Corporation (2 years), President, Gyan Yog Parmarth Trust, Hardoi (6 years), Chief Patron, IGM Group of Institutions, Ghaziabad/Noida (5 year), Advisor, Vidhya Group of Institutions, Meerut (2002 till date). Widely travelled abroad including Italy, West Germany, Sweden, England, Belgium, Singapur, USA & Canada etc.



**Er Kripa Shanker Misra-** Born on 18.12.1934, Graduate in Chem. Engg. (BHU) 1959, P.G. Diploma and Training in U.K. under Colombo Plan (1960-62) specialising in Energy Management, Short term Management Course at British Steel Staff College Statford-upon-Avon (U.K.) and Administrative Staff College, Hyderabad. Worked at MECON(PSU) Ranchi from 1962 to 1993 and ret'd. as General Manager in 1993. Also worked as Consultant

World Bank Washington D.C. (1984) and as Director & Consultant, Industrial Gases, Lucknow since 1993 – 1999. Consultant at Ecomen, Lucknow from 2000 to 2005. CORE STRENGTH- Project Management & Development. Building and Motivating a Compact and Effective team of Engineers and Professionals. Create a Winning Employee Value propositions. SPECIAL INTEREST- Practising and Lecturing on Ethics of Management. Motivating young managers & students of Management & Engg. Actively participates as member of LMA & IEI to develop and implement programmes for members of their interest.



**Er M K Agarwal-** Born on 20.11.1939, BE (Civil) in 1962 from Rajasthan University. Served in UP Irrigation Deptt. in different capacities and retired in 1997. Member of IEI since 1972 and was upgraded as FIE in 1992. Had been executive member of local committees at Roorkee, Aligarh and Varanasi as also UP State Centre. Was Chairman of Ghaziabad Local Centre and Council

Member of IEI. During this period was member of various committees such as Regional Coordination Committee, Equivalence Committee and National Language Promotional Committee etc. Played a very active role in all the meetings of the council and committees. Also organized Seminars and Workshops and other technical activities in association with various Engineering and Management Colleges during his tenure as Chairman of IEI. Presently he is President, Age Care Ghaziabad which is Govt. registered body. Has incorporated a company "Tanaashi Technologies (P) Ltd." at Noida which is engaged in customized Web application development and ERP Implementation and Support of various kind of industries.



**Er RD Verma-** Born on 13-08-1938, Joined UP PWD then moved to Nepal & worked in Development Department, Also worked in Kiribura Iron Project, Orrissa, J & K Minerals Ltd. and finally joined CIMAP (CSIR) & retired as Superintending Engineer, Was also actively involved in setting Antarctic Study Centre at Goa.



**Er R K Bansal-** Born on 2.7.1934, BE(1957) from Roorkee University, retired as Chief Engineer UP PWD. Had been Addl. Director, State Engineers' Academy, Kalagarh. Fellow and LM of IEI since 1984. Has been Exe. Member of Ghaziabad Local Centre since 1995. Served as Chairman GLC & Council member 2008-10. Member UPECC (2008-10) & 2012-14) In Council was member of Civil

Engg. Division, Regional coordinator Com, NLPC, Bye-Laws

Committee & others. Has been consistently pursuing interpretation/ implementation of Bye-Laws/Regulations with the aim of ways and means of improving the working of Centres/Institution with involvement of young and working engineers.



**Major Sunit Chandra Mathur-** Born 20 Dec 1938, B.Tech (Hons) from IIT Kharagpur and M.E. from Pune University. Was commissioned into the Corps of Engineers Indian Army in July 1962. Has taken active part in 1965 war against Pakistan. As Senior Executive in his Regiment, he has constructed roads and huttet accommodation at altitudes over 13,000 ft under hostile climatic

conditions in Sikkim. Also worked as Superintending Engineer in IIT Kanpur during 1978-80. Took premature retirement from Indian Army in 1983 & was appointed as Joint Director, CST, UP from 1983 till he superannuated in Dec 1996. Was responsible for organising and supporting various technical R&D projects in the state.

**Er Swami Dayal Tewari-** Born on 1-1-1938. Worked in Northern Railway and RDSO in drawing and design cadre and retired on 31-12-1995 on superannuation as Senior Engineer. Now leading retired life at home devoting most of the time in gardening and reading literature on health & reading.

*Contd. from page 5 column 1*

Fire Security arrangements in 15 meter high buildings is to be made as per National Building Code. But only few builders are abiding by it. If the fire safety equipments are even installed, there is no maintenance and on emergency they do not work properly. This is high time that the Fire Services Department should be given more powers to take stringent action against the builders who are not following the rules. Mr JS Mishra, Hony. Secretary informed about the various activities of the Institution of Engineers (India). The Technical Sessions were addressed by Mr R C Sharma, Former Director, Delhi Fire Services, Mr Shaurabh Jain, Sr Scientist, Central Building Research Institute, Roorkee, Mr H R Mishra, Mr S M Tiwari etc. The Valedictory Session was presided by Mr VM Tiwari, Director, Kochi Metro Rail Ltd who presented his views on the subject. Mr SM Tiwari, Secretary, Institution of Fire Engineers, UP Branch proposed vote of thanks.

## Notice for 94<sup>th</sup> AGM of IEI, UP State Centre

All Corporate Members  
IEI, UP State Centre

In pursuance of Reg. 6, it is hereby notified that 94<sup>th</sup> Annual General Meeting of IEI, UP State Centre, Lucknow will be held on November 30, 2014 at Engineers' Bhawan, River Bank Colony, Lucknow as per following programme:-

**Nov. 30<sup>th</sup> 2014 (Sunday)**

### Inaugural Session

- 10.00am Registration
- 10.30am - Welcome Address
- Dr Ghananand Pande Memorial Lecture
- Address by Chief Guest
- Felicitation of Platinum Jubilee Members
- Distribution of Awards & Prizes
- Vote of Thanks

01.30pm - Lunch

02.15pm - **Business Session** (Only for Corporate Members)

### Agenda for Business Session:-

1. To confirm Minutes of Meeting of 93<sup>rd</sup> AGM held on 27<sup>th</sup> Oct. 2013 at IEI, UPSC.
2. To receive the Audited Accounts & Annual Report for the year 2013-14.
3. To appoint Auditors for the Session 2014-15 & and fix their remuneration.
4. To report on composition of the Committee of IEI, UPSC for the Sessions 2014-15 & 2015-16

**J S Mishra, MIE**  
Hony. Secretary

## ANNUAL REPORT 2014-15

### A. Membership on Roll

Grade of Members	As on 31.03.2013	As on 31.03.2014
Corporate	11097	11587
Non Corporate	52914	55954

### B. Technical & other activities held during the period

5nos. Two Day All India Seminar/Workshop, 3nos. One Day Seminar/Workshop, 9nos. National Days, 9nos. Lecture Meeting, Engineers Day, Annual Technical Session, AGM, Holi & Deepawali Milan were organized during the year under reference as per following details-

1.	27.04.2013	: Lecture Meeting on 'Renewable Energy: Status & Challenges'
2.	07.05.2013	: Electricity Safety Week Celebration
3.	12/13.05.2013	: Two Day All India Workshop on 'National Building Code'
4.	17.05.2013	: World Telecom & Information Society Day
5.	05.06.2013	: World Environment Day
6.	21.06.2013	: Lecture Meeting on 'Affordable Housing'
7.	13/14.07.2013	: Two Day All India Seminar on 'Bio-energy-2013'
8.	21.07.2013	: Workshop on 'Valuation of Commercial & Residential Properties'
9.	27/28.07.2013	: Two Day All India Seminar on 'Prefabrication Technology in Civil Engineering'
10.	26.08.2013	: Lecture Meeting on 'Energy Conservation – A Value Addition'
11.	07/08.09.2013	: All India Seminar on 'Sources of Planet Energy, Environmental & Disaster Science: Challenges and Strategies' (SPEEDS-2013)
12.	15.09.2013	: 46 <sup>th</sup> Engineers' Day Celebration
13.	05/06.10.2013	: Two Day All India Seminar on 'Sustainable Management of Water and Sanitation Facilities in Urban Areas'
14.	07.10.2013	: World Habitat Day Celebration
15.	15.10.2013	: Independence Day Celebration
16.	14.10.2013	: World Standards Day Celebration
17.	26.10.2013	: Annual Technical Session
18.	27.10.2013	: 93 <sup>rd</sup> Annual General Meeting
19.	08.11.2013	: Deepawali Milan
20.	22.11.2013	: Lecture Meeting on 'Force Lift Hand Pump and its Innovation'
21.	11.12.2013	: Lecture Meeting on 'Satellite Communication'
22.	14.12.2013	: Energy Conservation Day Celebration
23.	11.01.2014	: Lecture Meeting on 'Urban Water Supply: Issues and Management'
24.	18.01.2014	: Workshop on 'Water and Food Security'
25.	26.01.2014	: Republic Day Celebration
26.	13.02.2014	: Lecture Meeting on 'Ancient Science of Professional Excellence'
27.	22.02.2014	: Lecture Meeting on 'Water Conservation – Future of Tomorrow'
28.	08.03.2014	: Workshop on 'Disaster Management – Towards Building a National Response System'
29.	22.03.2014	: World Water Day Celebration
30.	23.03.2014	: Lecture Meeting on 'Future of Canal Irrigation in India'
31.	29.03.2014	: Holi Milan

### C. Examination

The Summer -2013 and Winter-2013, Section A & B exams were held successfully as per schedule.

### D. Publication :

Newsletter was published and sent to all members of U.P. State Centre on alternate months regularly.

### E. Library

Total no. of books as on 31.03.2013	:	11838
No. of Books added during the year	:	276
Total no. of books as on 31.03.2014	:	12114

Periodicals/Magazines: A total no. of 03 periodicals/Magazines and Newspapers were subscribed per month regularly during the year.

### F. Accounts

Statement of Income & Expenditure and Balance-Sheet of the State Centre for the year ending 31<sup>st</sup> March 2014 were prepared & audited by Chartered Accountant as per schedule.

### G. Building of U.P. State Centre & Facilities available

The U.P. State Centre is having its own spacious building which was constructed during the year 1954 to 1958. U.P. State Centre building presently having a multipurpose Auditorium with seating capacity of 400 persons, Technical Library, Air-conditioned Conference Room and Guest House with 3nos. Air-conditioned and 3nos. Air Cooled double bedded suites. All these facilities are available on nominal maintenance charges. The facilities are available for Technical Activities and Examination purposes or any activity related to these and of professional nature. Renovation Work of Committee Room including false ceiling, wall decoration and split air conditioning were completed during the year. Renovation Work of Auditorium including false ceiling, wall paneling and air conditioning was started during the year.

**J. S. Mishra, MIE**  
Hony. Secretary

**THE INSTITUTION OF ENGINEERS (INDIA)**  
**UTTAR PRADESH STATE CENTRE, LUCKNOW**

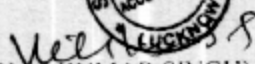
**BALANCE SHEET AS ON 31ST MARCH 2014**

Figures as on 31.03.2013	LIABILITIES	Sch		Figures as on 31.03.2014
1099429.97	<b>CAPITAL ACCOUNT</b> RESERVE & SURPLUS	A		1593707.22
3164738.49	<b>GRANT/FUND ACCOUNT</b> BUILDING FUND	B	3634738.49	
144235.50	FURNITURE FUND		144235.50	
157232.63	PRIZE & AWARD FUND	C	<u>157232.63</u>	3936206.62
187680.00	<b>OTHER LIABILITIES</b> LIBRARY DEPOSITS	D	198480.00	
1088925.03	HEAD QUARTER ACCOUNT	E	<u>959048.03</u>	1157528.03
<b>5842241.62</b>				<b>6687441.87</b>


ASSETS		SCH		
1543661.35	<b>FIXED ASSETS</b>	F		1629211.35
2359569.00	<b>INVESTMENTS</b>	G		2376555.00
	<b>CURRENT ASSETS LOANS AND ADVANCES</b>			
8474.00	LOCAL CENTRE (AGRA)		8474.00	
127125.21	LOAN & ADVANCES	H	1202125.21	
2670.00	SECURITY DEPOSITS	I	<u>2670.00</u>	1213269.21
	<b>CASH &amp; BANK BALANCES</b>	J		
1014.12	CASH IN HAND		609.37	
1799727.94	CASH AT BANK		1467796.94	
0.00	STAMPS IN HAND		<u>0.00</u>	1468406.31
<b>5842241.62</b>				<b>6687441.87</b>

The schedule referred to here in form an integral part of the balance sheet & this is the balance sheet referred to in our report of even date.

For SINGH & MAGAVELU  
 Chartered Accountants

  
 (VIKAS KUMAR SINGH)  
 Partner, M.No.403503  
 Date: 31.05.2014  
 Place: Lucknow

For THE INSTITUTION OF ENGINEERS (INDIA)  
 U.P STATE CENTRE, LUCKNOW

  
 (J.S. MISHRA)  
 HONORARY SECRETARY



**INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2014**

R & D	EDN	FIGURES FOR 2012-13	EXPENDITURE	SCH	BASIS OF ALLOCATION	RESEARCH & DEVELOPMENT	EDUCATION	TOTAL AMOUNT	FIGURES FOR 2013-2014
99921.24	487850.76	587772.00	<b>TO ESTABLISHMENT EXPS.</b>			-40240.44	183317.56	223558.00	
-15191.88	-74172.12	-89364.00	Pay in Pay band			7020.00	31980.00	39000.00	
13809.10	67420.90	81230.00	Grade pay			37715.94	171817.06	209533.00	
4520.64	22071.36	26592.00	Dearness Allowance			3175.20	14464.80	17640.00	
2260.32	11035.68	13296.00	house rent allowance			2239.56	10202.44	12442.00	
11152.00	54448.00	65600.00	Special Allowance			9671.04	44056.96	53728.00	
1174.36	5733.64	6908.00	Transport Allowance			1243.44	5664.56	6908.00	
69700.00	340300.00	410000.00	Ad-hoc Bonus for staff			86722.20	395067.80	481790.00	
1903.66	9294.34	11198.00	Salary for casual/temporary staff			2122.20	9667.80	11790.00	
13766.09	67210.91	80977.00	leave encashment:			16343.64	74454.36	90798.00	
559.64	2732.36	3292.00	books & periodicals			561.06	2555.94	3117.00	1150304.00
			News paper & magazines						
2821.15	13773.85	16595.00	<b>To Staff welfare Expenses</b>			1777.68	8098.32	9876.00	
2268.82	11077.18	13346.00	Reimbursement of Medical claim			2005.20	9134.80	11140.00	21016.00
			Children Education Allowances						
16520.80	4130.20	20651.00	<b>To Office Expenses</b>			14663.20	3665.80	18329.00	
42202.40	10550.60	52753.00	postage & telegram			27308.00	6827.00	34135.00	
13234.40	3308.60	16543.00	telephone & telex			7883.80	1970.95	9854.75	
77548.00	19387.00	96935.00	Printing & stationery			112586.40	28146.60	140733.00	
48.00	12.00	60.00	Electricity Charges			9318.40	2329.60	11648.00	
28994.40	7248.60	36243.00	Rates & taxes			32190.40	8047.60	40238.00	254937.75
			Misc. Exps.						
96329.60	24082.40	120412.00	<b>To Repair &amp; Maintenance</b>			12816.80	3204.20	16021.00	
3790.40	947.60	4738.00	Building			1280.00	320.00	1600.00	
6888.00	1722.00	8610.00	Electrical installation & furniture			11028.00	2757.00	13785.00	
6400.00	1600.00	8000.00	Office Equipments			2720.00	680.00	3400.00	34806.00
			Software Installation						
83991.20	20997.80	104989.00	<b>To Travelling &amp; Conveyance</b>			79519.20	19879.80	99399.00	
3808.00	952.00	4760.00	Travelling			22909.60	5727.40	28637.00	128030.00
			Conveyance						
281552.00	0.00	281552.00	<b>To Expenses for Technical Activities</b>			244507.00	0.00	244507.00	
50345.00	0.00	50345.00	Engineers Day & other National Days Celebrations			76546.00	0.00	76546.00	
			Other Technical Activities						





**UTTAR PRADESH STATE CENTRE, LUCKNOW**

**INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2014**

R & D	EDN	FIGURES FOR 2013-13	INCOME	SCH	BASIS OF ALLOCATION	RESEARCH & DEVELOPMENT	EDUCATION	TOTAL AMOUNT	FIGURES FOR 2013-14
618116.00	154529.00	772545.00	<b>By Grant received from head quarter</b>	K	80% RD 20% EDN	756654.00	189163.00	945817.00	951817.00
4800.00	1200.00	6000.00	Recurring Grant Incentive Grant			4800.00	1200.00	6000.00	
0.00	55235.00	55235.00	<b>By Grant for examination</b>	L	100%EDN	0.00	58011.00	58011.00	
0.00	51804.00	51804.00	Summer Winter Coaching Classes			0.00	79345.00	79345.00	
0.00	0.00	0.00	<b>By amount received from Headquarter as Reimbursement</b>	M	80%RD 20%EDN	417081.60	30000.00	30000.00	167356.00
366972.80	96743.20	463716.00	Pay & Allowances to Senior & junior staff pay of temp staff & manpower Grant			0.00	104270.40	521352.00	
54288.00	13572.00	67860.00	Election Receipts			41332.00	10833.00	54165.00	
10626.80	2669.20	13296.00	Children Education Allowance			8912.00	2228.00	11140.00	
13276.00	3319.00	16595.00	Medical Insurance Claim			7900.80	1975.20	9876.00	
8958.40	2239.60	11198.00	Leave Encashment			5432.00	2358.00	11790.00	608323.00
362100.00	0.00	362100.00	<b>By Receipts of Technical Activities</b>	N	100%RD	240300.00	0.00	240300.00	
299000.00	0.00	299000.00	Engineers & other National Days Seminars & symposia All India			918803.00	0.00	918803.00	1159103.00
339325.00	0.00	339325.00	<b>By Other receipts</b>		100%RD	402700.00	0.00	402700.00	
16750.00	0.00	16750.00	Service Charges for Refraining Rooms, Hall Donation for building fund			0.00	0.00	0.00	
13120.00	0.00	13120.00	Miscellaneous Receipts including old wadded receipts			36500.00	0.00	36500.00	
1280.00	320.00	1600.00	<b>By Library Receipts</b>		80%RD 20%EDN	30254.00	0.00	30254.00	469454.00
160.00	40.00	200.00	Subscription for Library			2720.00	680.00	3400.00	
0.00	0.00	0.00	Fine			250.40	62.60	313.00	3713.00
0.00	0.00	0.00	Advertisement of News Letters			0.00	0.00	0.00	
0.00	0.00	0.00	Sale of Old Magazines News Paper			0.00	0.00	0.00	
483320.00	120830.00	604150.00	<b>By Interest &amp; Dividends</b>		80% RD 20%EDN	16300.80	4075.20	20376.00	
90094.40	22523.60	112618.00	Interest on fixed deposits & short term Interest on Saving Bank accounts			104583.20	26145.80	130729.00	151105.00
0.00	697474.26	697474.26	<b>By Excess of Expenditure over Income</b>			0.00	690860.95	690860.95	690860.95
2702237.40	1224498.86	3226736.26	<b>TOTAL</b>			3000523.80	1701208.15	4201731.95	4201731.95

For SECRETARY, U.P. STATE CENTRE, LUCKNOW

For CHIEF ACCOUNTANTS  
U.P. STATE CENTRE, LUCKNOW  
(V. SINGH)

Date: 31.05.2014  
Place: Lucknow

For THE INSTITUTION OF ENGINEERS (INDIA)  
U.P. STATE CENTRE, LUCKNOW

(S. SINGH)  
HONORARY SECRETARY

## Report on Deepawali Milan

The Institution of Engineers (India), UP State Centre organised Deepawali Milan for it's members and their families in the evening of October 26, 2014. The function was started by lighting of lamp by



(L-R) Dr RP Dubey, Er VB Singh & Er JS Mishra

Er VB Singh, Chairman who welcomed the members on the occasion and extended goodwishes for Deepawali. The members exchanged pleasantries. A lively and entertaining cultural show was also



Artists presenting the show

presented which was enjoyed by all. Main artists who performed were Mrs Padma Gidwani, Er Rajesh Arora 'Shalabh', Mr Rajjan Lal, Mrs Neelima Dutt and Mr Dinesh Srivastava. Our members Er GR Jaisinghani and Er DK Srivastava also joined the show. Er JS Mishra, Hony Secretary thanked all the members for coming in large number. The function ended with dinner. Over 200 persons attended the programme.

### EDITORIAL BOARD

**Chairman :**

Er. V.B. Singh, FIE

Ph.: (M) 8004288301

**Hony. Secretary :**

Er. J.S. Mishra, MIE

(M): 9415901284

**Editor :**

Er. (Prof.) Jamal Nusrat, FIE

Ph.: (R): 0522-2780679

(M) 9415029050

## Report on two day Seminar on 'Sources of Planet Energy, Environmental Disaster Science: Challenges and Strategies-2014' (SPEEDS-2014)

A two day Seminar on 'Sources of Planet Energy, Environmental Disaster Science: Challenges and Strategies-2014' (SPEEDS-2014) was organized by School of Management Science, Lucknow in association with The Institution of Engineers (I) U.P. State Centre, Council of Science & Technology, U.P. and U.P. Technical University, Lucknow at SMS Lucknow campus on November 1-2, 2014. In the



(L-R) Er VB Singh, Dr RK Khandal, Mr Sharad Singh & Chief Guest Dr HS Das

Inaugural Session, Chief Guest Dr. Harsharan Das, Principal Secretary, DST, U.P. Govt. put emphasis on importance of cleanliness and purity of edible items. The Guest of Honour Prof. (Dr.) R.K. Khandal, Vice Chancellor, U.P. Technical University signified the traditional values that may help to protect the environment. Prof. (Dr.) B.R. Singh, Convener of Seminar & Director of School of Management Sciences- IET made the audience aware of melting of Glaciers and it's consequences. Mr. Sharad Singh, CEO and Secretary of SMS Lucknow, in his address focused on need of such Seminars to make the people vigilant about environmental issues. Er. V.B. Singh, Chairman of The Institution of Engineers, UP State Centre in his address threw light on how the global warming increases the temperature of earth surface due to effect of green house gases. He expressed his concern to solve this serious issue for the benefit of generations to come. A Souvenir was also released by the Chief Guest on the occasion.

To

If undelivered please return to:

The Institution of Engineers (India)

U.P. State Centre, Engineers Bhawan

River Bank Colony, Lucknow-226018