



The Indian Engineer

The most successful democratic politicians are those who succeed in abolishing democracy and become dictators – **B. Russell**
If you realize that all things change, there is nothing you will try to hold on to. If you are not afraid of dying, there is nothing you cannot achieve – **Lao Tzu**

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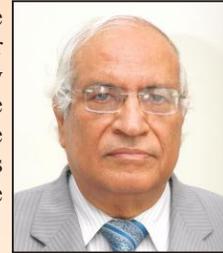
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Telecommunication Engineers**Shri Ashok K. Sehgal**
The Institute of Marine Engineers (India)**Shri P. N. Shali**
Director

Message from the Chairman

One of the main agenda of ECI is the Engineers Bill. I had said in the previous Newsletter that despite our best efforts, the earlier government was reluctant to take it to Parliament, presumably because a large number of their Bills were already pending before the Parliament and they did not want to add one more Bill. With the new government having taken over, we have renewed our efforts and hopefully the legislation will soon see light of the day. We have taken following actions:

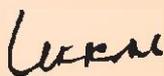
- Meetings held with Secretary, Department of Higher Education, Ministry of HRD
- Meeting sought with Hon'ble Minister of HRD- appointment expected shortly
- Letters to the Hon'ble Prime Minister by some of us.
- Posting of request on Hon'ble Prime Minister's web site
- Petition by a large no. of engineers



What we need now is a sustained campaign by all of us. I have requested all ECI member organisations to advise all their members to sign on the petition online. A portal has been developed by CEAI (a member association of ECI) where members of engineering associations can register their names. You will find the link to this portal at our website: www.ecindia.org.

This is in addition to another petition initiated by Mr Alok Bhowmick, which is also welcome, to get petition on www.change.org signed by as many engineers as possible. It is proposed that once the petitions are ready for submission to PMO and Ministry of HRD, this may be coordinated and submitted by ECI as the Apex body of professional engineering associations so that we have a coordinated approach. Members can also submit request on the portal of PMO. First step is registration on the website <http://pmindia.gov.in>. Click on the button "Interact with Hon'ble PM" and register with all your details. After registration, enter the user name and password and submit your message in 500 letters (including space). Following message has been given by Mr. Subhash Mehrotra, President of IAStructE to the Prime Minister, under Science and Technology head. "Sir, Engineers Bill is essential to give a legal recognition to the Profession of Engineering, enhance the performance and Level of Engineering in the country, ensure that engineering activities are performed by technically competent professionals with high level of integrity, honesty and commitment, make the profession accountable for its performance to Society and to the law of the land, ensure that Indian Engineers derive the same benefits as other countries engineers under WTO regime." This message directly gets submitted to PM. You can similarly send direct message to PMO in the manner explained above in different short messages to expedite the Engineers Bill.

ECI's 12th National Conference is being organized on the theme-'Accelerating Economic Growth Through Speedy Implementation of Projects-Challenge for Engineers & Technologists', on October 29, 2014 at India International Centre, New Delhi. Details are available on our website www.ecindia.org. I would request all member associations to promote the conference and help in getting maximum participation.


(Uddesh Kohli)

Engineering Council of India (ECI)

ECI is organizing 12th National Conference with the theme: Accelerating Economic Growth through Speedy Implementation of Projects-Challenge for Engineers & Technologists on October 29, 2014 at India International Centre, 40 Max Muller Marg, New Delhi-110003. For details send a mail to eci@ecindia.org, pnshali@gmail.com, director@ecindia.org

Construction Industry Development Council

Nominations have been called for Viskarma Awards -2015 by the CIDC. The last date for submission of the nominations is November 30, 2014. For details send a mail to cidc@cidc.in, cidcvka@gmail.com, or visit website: <http://www.cidc.in>

Indian Geotechnical Society (IGS), IGC-2014

IGS is organizing Indian geotechnical conference and exhibition on the theme: Geotechnics for inclusive development of India (GEOINDA) during December 18-20, 2014 at Jawaharlal Nehru Technological University, Kakinada, A.P.F. For details send a mail to kramujntu@gmail.com, baburd1108@hotmail.com, or, visit website: www.igc2014kakinada.org

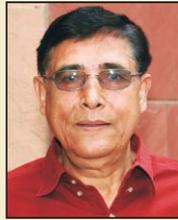
Indian Institute of Metals (IIM) - 52nd NMD and 68th ATM

52nd National Metallurgists' Day (NMD) and 68th Annual Technical Meeting (ATM) is slated to be held from 12-15 November, 2014 in the College of Engineering Pune. The theme of the NMD-ATM 2014 is 'Redefining the Horizons of Metallurgy/Materials: Focus on Automotive, Aerospace, Defense and Energy'. NMD-ATM is an excellent forum for the best professionals from the minerals, metals and materials industry and academia & research institutions from all over the world to meet and share their experiences and learning on various aspects of materials and metallurgical engineering. A special theme symposia on several topics of interest and value to the industry – for example, Integrated Computational Materials Engineering (ICME) for the Realization of Materials and Products, Additive Manufacturing (also known as 3D printing), Materials for the Automotive Industry and IT enabled Manufacturing is also being organised. For details visit website: www.nmdatm2014.org or send a mail to contact@nmdatm2014.org

Indian Society for Non Destructive Testing (ISNT)

ISNT, Pune Chapter is organizing NDE Seminar-2014 during December 4-6, 2014 at Pune. NDE is an important annual event of ISNT and provides highly stimulating and interactive platform for all NDE professionals right from students to experts, equipment manufacturers, third party inspection agencies and service providers to explore and exchange latest ideas and advancements in the field of NDE. Along with this, there will be pre-seminar workshop and exhibitions related to NDE. For details send a mail to or visit website: www.isnt.org.in.

From the Editor's Desk



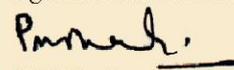
Engineers are looking forward to intervention and direction of the Prime Minister for getting the legislation for engineers enacted.

Technology is playing a key role in sustainable socio-economic development. Efficient use of resources – physical, financial and human – is a determining factor for accelerating growth of the economy. Engineers are expected to take decisions with due professional honesty and integrity. For this,

engineering activities should be performed by competent persons. It is necessary, therefore, to properly regulate the practice of engineering by an Act of Parliament in order to ensure continuing professional development of engineers, protect public interest and ensure safety and welfare of the people. Regulation of the engineering profession will legally recognize the profession similar to other professions such as Medical, Legal, Architecture, Chartered Accountancy, Company Secretary, etc. Without such a legal recognition, the engineering profession in India will not be able to prosper thereby adversely affecting the overall development of the country.

Secondly, regulation of engineering profession by an Act of Parliament has also become necessary because of coming up of WTO. Various countries have their own system of registration/licensing of engineers and Indian engineers have to follow that if they have to practice there. But, foreign engineers can practice in India as there is no such statutory regulatory body in position here. As a result, Indian engineers are at great disadvantage. Besides, trade in engineering services will require bilateral and multi lateral agreements with the sovereign governments. Legally speaking, statutory bodies created under an Act of Parliament can only enter into such agreements. A statutory body for engineers needs to be set up under an Act of Parliament which will undertake the registration of engineers, lay down specifications for competency in professional practice and shall have the mandate for recognition of this competency through a process of registration and renewal keeping in view the need for continuous professional development (CPD) of engineers. This will also provide a level playing field to our engineers vis – a vis foreign engineers. A draft Engineers Bill was submitted to the Ministry of HRD in Sept 2004, and later a consensus draft of Engineers Bill was submitted in May 2007. The Bill was circulated twice by the Ministry of HRD for comments to various concerned ministries and departments of the government of India. These comments came in and were incorporated in the Bill. An inter-ministerial meeting was also held in February 2011. The Bill was, however, not finalized and submitted for consideration and approval by the Cabinet before placing it in the Parliament.

Meanwhile, in view of the inordinate delay in the enactment of the central legislation for engineers, states like, Gujarat and Maharashtra have gone for their own legislation. Gujarat is the first state to have brought its own Engineers Act which is, however, confined to one specialization – civil engineers. Maharashtra is also contemplating to enact the law for structural engineers. This is a piece-meal approach and does not cover all engineering disciplines. The other states may follow and bring in their own legislation for engineers, as there is a genuine and imperative need for the regulation of the engineering profession in India. These are bound to be varying in coverage, regulatory measures, etc. It will not be desirable to have a fragmented approach. There is, therefore, a need for the central legislation for engineers covering all streams of engineering, which could be uniformly applicable throughout the country. This will also enable international mobility of engineers for making available their services abroad, which may result in engineering services emerging as a large export area after IT and BPO. Thus, legislation for the engineering profession will help in promoting faster development, good governance and job creation. The engineering fraternity is looking forward to intervention and direction of the Prime Minister for getting the legislation for engineers enacted at the earliest.


(P.N. Shali)

Distinguished Engineer : Prof. Sandeep Sancheti

Prof. Sandeep Sancheti, President (Vice Chancellor), Manipal University Jaipur, is known as an institution builder. Prior to joining as President, Manipal University Jaipur (still in its formative years), he has served as founder Director National Institute of Technology Delhi, Director National Institute of Technology Surathkal, Director in-charge of National Institute of Technology



Tiruchirappally, National Institute of Technology Calicut, School of Planning & Architecture (SPA) Delhi and also Mentor Director of the newly established National Institute of Technology Goa, National Institute of Technology Puducherry and National Institute of Technology Sikkim. Prof. Sandeep Sancheti has more than 30 years of teaching, research and administrative experience. His major area of research interest is High Frequency Electronics, R.F. Circuits and Systems, Microwave Antennas and Semiconductor Device Modeling. He has contributed significantly in the field of research through funded projects resulting in more than 75 research papers in national/international journals and conferences. He has also delivered several keynote addresses and invited talks. He has also undertaken several sponsored research activities, projects and consultancy from many reputed organizations from time to time. Thus, Prof. Sandeep Sancheti has contributed significantly to the field of engineering education and profession in India and abroad. He began his career at M.B.M. Engineering College, Jodhpur as Assistant Professor in the Department of ECE. Subsequently, he was an Associate Professor, Professor and Head of the Department of Electronics & Communication Engineering at the Malaviya Regional Engineering College, Jaipur and Dean (Academic) at the Malaviya National Institute of Technology, Jaipur.

Positions Held

He is on the panel of number of Academic Bodies, Planning & Governing Boards, Editorial Boards, Selection and Advisory Committees of MHRD, AICTE, UGC, NAAC, NBA, CMAT, Kakodkar Committee, National Advisory Committee for E-Resources and many other Professional Bodies at the National level. Prof. Sandeep Sancheti was a founder member of Indo-US Collaboration on Engineering Education (IUCEE), Member of Academic Advisory Board of Microsoft (India), Member of the Committee set up by the Government of India on up gradation of Government Engineering Colleges, Member of MHRD Working Group on Technical Education for 12th Five Year Plan and a Member of the National Steering Committee constituted to conceptualize the Technical Education Quality Improvement Programme-II (TEQIP II) – a World Bank Assisted programme. He was also Chairman Central Counselling Board (CCB), Director Admission of Students from Abroad (DASA) schemes of the Government of India and Member Distance Education Council (DEC). He was a member of the Government of India Science and Technology delegations to USA and Republic of Ireland. He was also the Principal Coordinator of QIP (Poly) programme of AICTE, Government of India and Chairman of NIMCET, an all India MCA entrance test. He was also a member of the Higher Education sub-committee of the Rajasthan State Planning Board.

Fellowships Awards and Honours

Prof. Sandeep Sancheti is a recipient of Fellowship under the Colombo Plan and Commonwealth Scholarship from 1992-1995. He has also been awarded SERC Fellowship from DST, Government of India in 1998. He received UKISTRF Award

(1999-2000) from the British Council. He has been honoured with the 'VDS Samman' by the Rajasthan Science Congress Association for his outstanding contribution towards the engineering education. He was also honoured by the Rajasthan State Centre of Institute of Engineers (India) and other professional agencies from time to time for his eminence and contribution to the profession of engineering.

Membership of Professional Bodies

Prof. Sandeep Sancheti is currently Vice-President, Institution of Electrical and Electronics Engineers (IEEE) MTT, India Chapter and a Member of IEEE, USA. He is a Life Fellow and currently a Council Member of the Institution of Electronics & Telecommunication Engineers (IETE), Life Fellow of The Institution of Engineers (India) and Broadcast Engineering Society (India), Life Member of the Indian Society for Technical Education. He has also served in the capacities of Honorary Secretary and Chairman, IETE, Rajasthan Centre.

Prof Sandeep Sancheti holds a Ph.D from the Queens University of Belfast, U.K. He obtained his B.Tech (ECE) from Regional Engineering College, Warangal (NIT Warangal) and M.Sc. (Engg) from Delhi College of Engineering (Delhi Technological University) in 1982 and 1985, respectively.

Appointments



Dr Baldev Raj has taken over as Director of National Institute of Advance Studies (NIAS) on September 1, 2014 at Bangalore. NIAS was founded by the visionary JRD Tata and steered by eminent scholars like Dr. Raja Ramanna, Prof. Rodam



Narasimha, Dr. K. Kasthurirangan and Dr. V. S. Ramamurthy. It has made the institute eminent



and uniquely worthy. Challenges now and in future shall demand consolidation, enhancement and chartering new pathways, keeping in mind the excellent traditions and eco systems which exist at NIAS. Shri Subba Rao has been elected President, Shri



Rajeev Nayyar as the vice President, and Shri V. K. Jain as the Hon. Gen. Secretary of IIPE-CC for the term 2014-16.

Our Congratulations

Awards & Honours



Shri A B Agrawal, Chairman, Bhakra Beas Management Board and former Chairman, Indian Institute of Plant Engineers - CC was honoured with Indira Gandhi Rajbhasha Award - 2012-13 by the Hon'ble President of India. Prof.

Sudhindra Nath Panda was awarded NAAS Fellow in the area of Agricultural Engineering and Technologies. Prof. (Dr.) Yogender Kumar Yadav, Director, Sardar Swaran Singh National Institute of Renewable Energy (SSS-NIRE), Kapurthala received the World Renewable Energy Pioneer Award on August 4, 2014.



Our Congratulations

News from the Member Associations

Association of Consulting Civil Engineers (India) - ACCE(I)

ACCE(I) organised a national conference on August 22, 2014 at Hyderabad. It was very well attended. The Bangalore Centre of ACCE(I) is organizing an international seminar and exhibition on Precast Concrete Technology- Recent Developments in Design & Construction during November 9-13, 2014 at Bangalore. The main topics of discussion include "Precast is the way for speedy construction and "Precast is the way forward". For details visit website: www.accehq.net, www.redecon.in, or, send a mail to admin@accehq.net.

Computer Society of India (CSI)

CSI Udaipur Chapter, SIG-WNs, Div-IV and Pacific Academy of Higher Education and Research (PAHER) organised a National Conference on Advancements in Engineering and Technology - Vision 2025 (NCAET-2014) during September 12-13, 2014 at Udaipur, Rajasthan. The GLA University in technical association with CSI Mathura, Div I & Region I organised ETIR-2014: National Workshop on "Emerging Trends in Information Retrieval on September 27, 2014 at Mathura, UP. These events were very well attended by the industry, academia and students. CSI, Kolkata Chapter will organize the 4th International Conference-2014 on Emerging Applications of Information Technology (EAIT 2014) during December 19-21, 2014 at Indian Statistical Institute, Kolkata. For details visit website: csi-india.org or send a mail to: hq@csi-india.org.

Consultancy Development Centre-CDC

Certificate Programme in Technical Consulting is being organised during December 10-12, 2014 at CDC, Core 4B 2nd Floor, India Habitat Centre, Lodhi Road, New Delhi - 110 003. For details send a mail to info@cdc.org.in or visit website: www.cdc.org.in

Consulting Engineers Association of India-CEAI



CEAI in association with CEAI-Western Region Centre, successfully conducted FIDIC Training Courses on "Practical Use, Management and Administration of FIDIC Conditions of Contract" at New Delhi on August 4-5, 2014 and on August 7-8,

2014 at Mumbai. Shri Bogdan Oprea-a FIDIC accredited trainer was the main faculty. He very lucidly explained the basic provisions and how to use the FIDIC conditions of contract, administer and manage them so that the risks are properly defined, addressed and monitored. The course dealt with practical issues on the FIDIC 1999 conditions of contract as per the new Red Book but also compared it with the Yellow Book, Silver Book and the Pink Book where-ever necessary. Shri Sudhir Dhawan, Vice President, CEAI inaugurated the training course at New Delhi and Shri A.P. Mull, President CEAI, inaugurated the training course at Mumbai. Dr. H Subbarao and Mr. Uttam Sengupta introduced the subject and stressed on the need in view of new terminologies being used in contracts. Around 70 delegates from around 30 different organisations comprising consulting firms/ individuals, government departments, public sector undertakings and manufacturers of plant & equipment attended the courses at each venue. Special issues and topics based on Indian case studies and also international contracts were aptly covered by Mr. O P Goel,

Dr. P V Amarnadha Prasad and Mr. Uttam Sengupta. All the sessions generated intense discussions. CEAI is organizing its annual seminar on "Role of Consulting Engineers, Contractors, Developers and Authorities in Infrastructure Development" on November 28-29, 2014 at the India International Centre, New Delhi. Safety, stability and speed for sustained growth of a country are dependent on its infrastructure. To spur its development a country needs good, high speed, reliable and secure connectivity - physically (roads, highways, airways, railways, inland waterways and seaways) and virtually (telephone and IT backbone), assured quality electrical power and lastly but not the least affordable habitats for all. For all these to fructify, the government policies and procedures must be shaped to promote participation from all the stake holders and make the development truly inclusive. The main discussion will be focused on the major sectors which are essential for development of the nation - Highways, Airports, Power, Real Estate & Buildings, Railways, Ports and Financing which is so essential for all of them to take off. For details send a mail at l: info@ceai.org.in, events@ceai.org.in

Construction Industry Development Council-CIDC

CIDC inaugurated vocational training program sponsored by Sulej Jal Vidyut Nigam Limited on September 2, 2014. It had the honour of receiving Mr. S. K. Mahajan Head of Projects, Mr.



Avadesh Prasad Sr. Manager, Dr. Basant Pandey Sr. Manager from Satluj Jal Vidyut Nigam Limited. From CIDC, Dr. Shuchita Kumar, Mr. Praveen Tiwari and Mr. B.R Chauhan welcomed the guests. Satluj Jal Vidyut Nigam officers appreciated

CIDC's efforts in training their youths from the northern hill region of the country to equip them with skills that would enable them to earn a living. CIDC celebrated independence day on August 15, 2014 at Vishwakarma Pratham (VKP), Faridabad with patriotism, pride and love for the country. Director General Dr. P. R. Swarup, Mrs. Kshamita Swarup, Shrimati Nitya Saxena and Directors and officers of CIDC graced the occasion. E.D.P Programme was conducted for engineers of Haryana State Warehousing



Corporation on August 2, 2014 at VKP. Experts delivered lectures on "Understanding & Handling of Contracts" and "How to avoid Arbitration by proper Contract Management" CIDC organized a "One - day Brainstorming Workshop on "Estimation of Cost of Accident and Safety Budget in Construction Projects" was organised jointly with IIT Delhi on August 13, 2014 at VKP, Faridabad. The course was targeted for industry professionals. The course gave a better understanding and enhanced knowledge of the underlying principles of estimation of cost of accident and safety budget as advance practice



promoted by Inter-national Labor Organization (ILO) and adopted by developed countries.

Indian Building Congress-IBC

IBC organised its foundation day on September 1, 2014 at New Delhi.

Indian Concrete Institute-ICI

ICI jointly with the PWD, Govt of Delhi organized a workshop on waterproofing technologies in construction industry during July 18-19, 2014 at Lalit Hotel, New Delhi. It was concluded in the workshop that water is one of the most important component in constructing a concrete structure. At the same time, it also acts as the most destructive weathering element, if its ingress into the structure is not prevented. Effective waterproofing is the key to better performance and durability of the structure. The objective of waterproofing is to prevent the penetration of water/moisture into the structure in order to increase its service life avoiding costly repairs, maintenance and inconvenience to the users. Waterproofing technologies include integral waterproofing, admixtures to reduce permeability, coatings, specialized membranes, sealants, and injection grouting. Material used for water proofing was also discussed during the workshop. The workshop was very well attended both by the industry and academia.

Indian Institute of Chemical Engineers-IChE

The Haldia Regional Centre of the IChE organised the 10th Students' Chemical Engineering Congress (SCHEMCON), an annual event for the Student Members of the IChE, on theme 'New Horizon in Chemical Engineering Applications' on September 19-20, 2014 at the Haldia Institute of Technology, Haldia, West Bengal. Plenary lectures were delivered by noted academics, scientists and technocrats from different parts of the country. Students presented papers in different topics, including the newer streams like Nanotechnology, Biotechnology and Biosensors, Green Technology, etc. Events also included poster presentations, quiz competition, essay writing competition, etc. IChE is gearing up for its annual mega event - the 67th Annual Session of Chemical Engineers (CHEMCON-2014) - to be held during December 27-30, 2014 at the Punjab University campus in Chandigarh. Details are available on the website : www.chemcon2014.com.

Indian Institute of Plant Engineers-IIPE

IIPE organized one-day Workshop on "Ensuring Safe Environment at Workplace Through Awareness, Attitude and Interpersonal Relations" on August 11, 2014 at Ashraya International Hotel, Infantry Road, Bangalore. The workshop was very well attended both by the industry and academia. Shri P Varshney, Joint Secretary, IIPE-CC & Sr Vice President, PTC India Ltd, was the co-chairman of the selection process amongst top public and private sector units at the "National Award for Innovative Training Practices", held on September 12, 2014 at the Scope convention centre, New Delhi.

Indian Geotechnical Society -IGS

IGS-Ludhiana Chapter is organizing a three - day conference on Geotechnical Engineering Practice and Sustainable Infrastructure Development during October 10-20, 2014 at Guru Nanak Dev Engineering College, Ludhiana. Details of the conference are available on website:www.igs.org.in. IGS, Bangalore Chapter, in association with the Department of Civil Engineering, Indian Institute of Science, is planning to conduct a national conference

on "Geo-Innovations" during October 30-31, 2014 to commemorate the Golden Jubilee Year (1964-2014) of the Chapter. Sub-themes of the conference include Innovations in geo-characterization, foundations and retaining structures, ground improvement, geo-environmental engineering, soil dynamics, earthquake engineering, and rock mechanics and tunneling. More details are available at <http://www.igsbangalore.com>.

Indian Institute of Industrial Engineering-IIIIE

IIIIE, Visakhapatnam Chapter organised 56th IIIIE National Convention on Productivity Foundation for Sustainability during September 11-12, 2014 at Visakhapatnam Steel Plant, The convention was very well attended both by the academia and the industry. Engineering students from neighbourhood colleges also attended the convention and contributed during discussions. IIIIE is organising 3rd international conference on Best Practices in Supply Chain Management (BPSCM- 2014) during November 28-30, 2014 at Hotel Valley View, Udaipur, Rajasthan. For details send a mail to: fom@valleyviewudaipur.com or phone:+912942490050.

Indian Society of Agricultural Engineers- ISAE

Dr. Manjeet Singh, research engineer at Punjab Agricultural University, Ludhiana attended 12th international conference on Precision Agriculture (ICPA) held at the Hyatt Regency in Sacramento, California, USA during July 20-23, 2014 and presented a paper on precision agriculture. About 400 delegates from the world including the U.S. attended the conference. Oral and poster presentations were related with precision agriculture like Precision Crop Protection, Precision Dairy Management, Precision Livestock Management, Precision Conservation, Precision Horticulture, Precision Nutrient Management, Precision Carbon Management, Precision Engineering Technologies, Precision Data and Information Management, Women in Precision Agriculture, Proximal Sensing in Precision Agriculture, etc. Field tour was also conducted by the organizers to precision irrigation systems using wireless sensors and controller network and some new technologies to measure canopy light absorption, plant water stress measurement for irrigation management, drones for orchard crops, etc. Grape Berry counting system was demonstrated at the University of California. Demonstrations were also conducted on RTK-GPS based plant mapping and cultivation equipment and an agricultural drone copter used for commercial spraying. Delegates were also taken to see the wine grape production site to observe grape berry imaging system and grape yield monitor.



Indian Society for Non Destructive Testing (ISNT)

ISNT, Pune Chapter is organizing NDE seminar -2014 during December 4-6, 2014 at Pune. NDE is an important annual event of ISNT and provides highly stimulating and interactive platform for all NDE professionals right from students to experts, equipment manufacturers, third party inspection agencies and service providers to explore and exchange latest ideas and advancements in the field of NDE. Along with this, there will be pre-seminar workshop and exhibitions related to NDE. For details send a mail to isnttheadoffice@gmail.com or visit website: <http://www.isnt.org.in>.

Indian Society for Technical Education-ISTE

The 13th Annual Students Convention of ISTE Kerala Section QUERENCIA 2014 : Arise & Awaken Your Ideas was organised by Mar Baselios College of Engineering and Technology, Trivandrum during August 29-30, 2014. 'Querencia' is a Spanish word for the space within a bull ring, where after a fight the tired or wounded bull retreats to recharge before fighting again. The expression was chosen by the students to highlight the provision of a safe haven for participants to renew themselves and realize their true potential and genius. The convention was inaugurated by Her Excellency Smt. Sheila Dikshit, Governor of Kerala State. His Beatitude Moran More Baselios Cardinal Cleemis Catholicos and the Patron of MBCET delivered the presidential address. Dr. S. Basil Gnanappa, Executive Secretary, ISTE delivered the address and highlighted the major goals of ISTE at the national level. Dr. B. Anil, Chairman, ISTE Kerala Section delivered the keynote address. The various Awards were distributed during the inaugural function. Seven best students from each chapter were awarded during the function. Various paper presentations and workshops on Animation and Android Programmes were also organised during the convention. The 44th ISTE National Annual Convention is slated to be held on the theme: Shaping Technical Education to Meet the Challenges Beyond 2020 during November 27- 29, 2014 at College of Engineering, Trivandrum (Kerala). For details send a mail to ushalal2002@gmail.com, istedhq@vsnl.net, executivesecretary2012@gmail.com or visit website: www.isteonline.in

Institute of Urban Transport (India)-IUTI

IUTI is organizing two-day national workshop on Dissemination of Toolkit on Comprehensive Mobility Plan (Revised) and parking measures on October 9-10, 2014 at Delhi. The objective of the workshop is to enlighten professionals and city officials about the updated features of CMP (comprehensive mobility plan) toolkit for sustainable urban transport and to deliberate on the policies, best practices and applications of innovative technologies for parking management in urban areas. This workshop would help them to understand the nuances of CMP, parking measures and plan accordingly to resolve mobility and transport related issues in the cities. For details send a mail to; events@iutindia.org, clkaul@iutindia.org, info@iutindia.org, or visit website: www.iutindia.org

The Aeronautical Society of India-ASI

ASI organised the 65th Annual General Meeting of the Society on September 16, 2014 at Hyderabad along with a conference on "Strategy for Indigenous Development of Futuristic Civil and Fighter Aircraft". The conference was very well attended by the industry, academia and the students. Essay competition awards, student prizes and certificates were also presented on the occasion. The society received generous help and support from the corporate members and Dr. Biren Roy Trust, Kolkata and Aeronautical Research & Development Board (MOD) for furthering its objective.

The Institution of Civil Engineers (India)- ICE(I)

ICE(I) celebrated Engineers Day on 15th September, 2014 at New Delhi. It also organized a National Seminar on "Sustainable Green



Innovations In Construction". The tone for the programme was set by Dr. S.L. Swamy Chairman ICE (I) wherein he made certain remarkable points. The seminar was inaugurated by Shri Nihal Chand, Minister of State for

Chemicals & Fertilizers, Government of India. The Hon'ble Minister applauded the role of Indian civil engineers across the globe. He appreciated the efforts made by ICE (I) for overall development of the profession. He especially called upon the civil engineering fraternity to follow the Mantra of the Hon'ble Prime Minister of India "Zero Defect, No Effect" by following "Zero Defect in Construction and No Effect to the Environment". ICE(I) also organised exhibition "ICE (I) Expo-2014" in which leading builders and government agencies participated. The ICE (I) organized its 4th convocation on which Dr. Swarna Subba Rao, Surveyor General of India was the Chief Guest. In his convocation address to the recipients of the Degree and Diploma certificates, he advised them to shape up their skills with the use of modern technology in tune with the needs of the Industry so that the employability ratio becomes better.



The Institution of Engineering & Technology (India)-IET India

IET India is organizing the IET Advantage Job Fair 2014 during October 10-11, 2014 at SRM University, Chennai. The Job Fair will be open to IET members (engineering students, fresh graduates and young professionals with 1- 6 years' experience) who are studying or working in India. On line application for the final year engineering students and fresh engineering graduates of 2014 has been called for the event. For details send a mail to Ietindia2011@gmail.com or visit website: www.ietindia.org

The Mining Engineers' Association of India (MEAI)

MEAI, Nagpur Chapter is organizing a two-day international conference with the theme: Mining at Crossroads- the Multifaceted Challenges (MCRMFC, 2014) during November 20-22, 2014 at Nagpur. The conference is supported by the Indian Bureau of Mines. For details contact: Shri Y.G. Kale, Regional Controller of Mines & Technical Secretary to Controller General, IBM. Mob: 09423628290 and Shri Kalihari, Secretary, Mob: 09373593865, or send a mail to: rkalihari@rediffmail.com. MEAI, with the objective to develop the requisite knowledge and managerial competence of all professionals working in mining and mineral- based industry as a part of 'competence building mission' with focus on sustainable mining, organized its first 'All India Exploration Geologists Meet (AIEGM) during August 21-22, 2014 at Hyderabad. The lead speakers from the international and Indian organizations attended and shared their experiences and expertise. The special focus was on the emerging technologies.

The Indian Institute of Metals (IIM)

The prestigious MMMM, 2014 - Exhibition & Conference was organised successfully by the Delhi Chapter of IIM during September 4-7, 2014 at the Pragati Maidan, New Delhi. The event was co-sponsored by the Ministries of Mines, Steel, Commerce, External Affairs, Earth Sciences, Planning Commission, etc. The theme of the international conference, organised as a part of the event, was : Emerging Trends in Metals & Minerals. It was very well attended. Many eminent metallurgist from both the academia and industry presented keynote papers which were discussed.

Institute of Electronics and Electrical Engineers -IEEEs

IEEE Madras Section sponsored IEEE-RI0, region 10-Asia Pacific-HTC-2014, which was a conference held during August 6-9, 2014 at ITC Grand Chola Hotel, No. 63, Mount Road Guindy, Chennai. Papers were invited in all IEEE designated areas that address scientific, engineering and technological issues related to humanitarian problems. The event was very well attended.

News Kiosk

Delegation from China

A High level delegation from the Yunnan Province of China visited New Delhi on 24th September, 2014. The delegation was led by Mr. He Lianghui, Director General, Department of Commerce of Yunnan Province and included Ms. Han Yi, Deputy Director, Foreign Affairs and International Trade and Economic Affairs Division, Department of Commerce of Yunnan Province, Mr. Yang Zhengwei, Deputy Director, Information Division, Department of Commerce of Yunnan Province, Mr. Yin Dong, Director, Secretariat of China-South Asia Business Forum, CCPIT Yunnan Sub-Council, Ms. Gao Yufen, Deputy General Manager, China Mobile Communications Corporation, Yunnan Co. Ltd, Mr. Liu Jian, General Manager, Network Management Center, China Mobile Communications Corporation, Yunnan Co. Ltd., Mr. Yang Xiaojiang, General Manager, Yunnan Landian Digital Technology Co., and Ltd. Mr. Yi Hong, Chairman of Board, Kunming Dongxun Technology Co. Ltd. The Indian Chamber of Commerce organised a lunch on meeting with the delegation on September 24, 2014 at Hotel Taj Man Singh, New Delhi.

Bids Invited

Cairns Castle Construction Ltd, UK has invited bids from engineering, landscaping, cooling and refrigeration, building and

construction firms to bid for various contracts that are available. Contract and employment offer in Cairns Castle Construction Ltd, Qatar, services of construction professionals to work with the company in their ongoing infrastructural development in Qatar is also solicited by the company. They need the services of Engineers, Architects, Surveyors, Foremen, Laborers, Pharmacists, Dentists, Masons, Plumbers, Drivers, Electricians, Masons, carpenters, Landscape, Nurse, Doctors, HSE Engineers, Crane Operators, Plumbers, Heavy Equipment Operators (drivers), HVAC Technicians and Engineers, Foremen, Supervisors etc. Attractive salary and accommodation in Qatar is assured. For details send a mail to David Bond, Human Resources Manager, Cairns Castle Construction Ltd, UK at career.cairnscastle@yandex.com.

Superannuation

Dr Pitam Chandra superannuated today after a very meaningful service to Indian Council of Agricultural Research. His very distinct services as a researcher and teacher at IARI and also very successful tenures as ADG (Processing) and Director CIAE will be remembered by all of us. ISAE family and Agricultural Engineering fraternity and Engineering Council of India (ECI) wish Dr Chandra a very peaceful and meaningful retired life.

Letters to the Editor

Dear Sir,

I am really thankful to you for being pursuing the challenges with the respective governing authority. It has always been in my mind since I passed out from IIT-KGP in 1984 that why engineers are not given legal recognition like other profession mainly legal & medical. Also it has been observed that gradually the quality of engineering education has gone down over the last 10 years in particular. Many a time we debate among ourselves what could be the reasons or root cause, is it that the profession is not taken in its right spirits at the institute levels or students are not oriented to love the profession. Like this many questions comes to our mind.

With warm regards

Sushanta K Roy
Chief Manager
(TS & Speciality Business)

Dear Mr. Shali

Your recent news letter is in my hands. I appreciate the attempt made by you to bring engineering fraternity on a common platform. ECI has effective aims and objectives, to which all member

Institutions can contribute more, if ECI develops its campus providing office space to its members. There may be multiple halls in the campus for its members to hire to conduct their programmes, thus saving lot of cost being paid to hotels. We may initiate the move at IPE to participate, if the said proposal materializes.

With my warm regards

R C Gupta
Secretary General, IPE Corporate Centre
Vice President, Desein-Indure Group

Dear Shri Shali ji

Many thanks for the Indian Engineer, June 2014. I find it full of latest information. I compliment you for being the torch bearer and making an excellent coverage especially about achievements of women engineers.

With best regards

Dr. (Mrs) Malti Goel
Former Adviser, DST
CSIR Emeritus Scientist, JNU
Adjunct Professor, Jamia Hamdard

Letter to the Chairman, ECI

Dear Dr. Kohli,

I am thankful to your congratulatory message on India becoming a Permanent member of the Washington Accord. Your best wishes and your support to NBA will enhance our efforts to achieve excellence in Engineering Education.

Looking for your support and with kind regards,

Yours sincerely
Dr. A. K. Nassa
Member Secretary, NBA

Obituary

It is with deep sorrow we came to know the sad demise of **Shri S Najmi**, Director, IAStructE on August 2, 2014 due to lung infection. During his tenure of Director, IAStructE and also with CEAI, his contribution was enormous and he was very actively associated with all the programmes of both the associations. He rendered the services to IAStructE till the last day. It is a great loss to IAStructE. His passing away has created a gap, which cannot be filled up. He had many outstanding qualities which nobody could match. ECI is shocked to know about the sad demise of Shri S. Najmi and ECI conveys its condolence to IAStructE and his bereaved family and prays to God to give peace to the departed soul and give strength to the bereaved family to bear the irreparable loss.



Engineering Council of India organised the 1st Students Conclave on September 3, 2014 at Jadavpur University Campus, Kolkata

Engineering Council of India (ECI) organised seven (7) national conventions from 2006 to 2013 at different locations in the country, a national workshop at Madurai, Tamil Nadu, and a round-table conference at New Delhi on the theme : Reform of engineering education for better employability of engineers. ECI, realizing that the main stake holders of engineering education and training are the students, decided to organize the students' conclaves on this theme. Engineering students, who will be invited from IITs, NITs, and other engineering colleges from the private sector, would be the main speakers in these conclaves and engineers from the industry and academia, who will also be invited to attend these conclaves, will only be the interventionist. Intention is to solicit their views and also those of engineers from the industry, other institutions and the academia on the reform of engineering education for better employability of engineers.



Student addressing the Conclave

recommendations and also made other suggestions on the subject which in their opinion would be very useful in bringing the engineering education and training to the level of international standards. Prof. Ajoy Kumar Ray, Director, IEST, Shibpur (formerly BESU), Kolkata was the Chief Guest and he inaugurated the conclave. Shri R.N.Parbat, Management Consultant, former



Prof. Ajoy K Ray addressing the Conclave



Shri R N Parbat addressing the Conclave

whole time Director & Chief Operating Officer of Indian Aluminium Co. Ltd., a subsidiary of Alcan Aluminium Ltd. of Canada, Managing Director of Indal-Norsk Hydro JV Co. in India, Chairman of Hirakud Power Co. Ltd. and Chairman of Utkal Alumina



Student addressing the Conclave

The 1st students' conclave was organised on September 3, 2014 at Jadavpur University campus, Kolkata. The objective of the conclave, as cited above, was to involve the main stake holders- the students- and seek their views on the reform of engineering education for better employability of engineers. The background discussion note on the subject, which also covered the gist of recommendations of the previous seven national conventions and the round-table conference, was circulated before the conclave to the participating students. The students expressed their views on these

International Ltd and an international authority in Aluminium technology and Aluminium industry, and the Past President, the Indian Institute of Metals, presided over the function and addressed the conclave. About 250 delegates attended the conclave which included engineering students from all most all engineering institutions located in and around West Bengal and Orissa, members of the faculty and engineers and technologists from the industry. Proceedings of the 1st students' conclave will be published and circulated to all the participants and others in due course.



A view of the Audience

India's stagnating manufacturing sector - Indian Council for Research on International Economic Relations (ICRIER) Working Paper No. 285

Abstract

India's stagnating manufacturing sector has become a serious cause of concern for Indian policy makers. Several reasons have been identified for this slowdown, including lack of policy focus, unsupportive external environment, etc. Given the importance of the manufacturing sector and its potential to contribute to growth and employment, corrective measures must be implemented almost immediately to salvage the sector. In this context, the paper analyzes the potential for India to develop its high value manufacturing sector and provides recommendations on measures to achieve this objective. In the absence of extensive literature in this area, the paper begins by conceptualizing a

definition of high value manufacturing using two different approaches. Secondary data analysis tells us that high value manufacturing in India exists only in islands. Cross country comparisons with other East Asian economies such as Korea, Japan and China reveal that India has an opportunity to develop a comparative advantage in other sectors including electronics and computer hardware. Using Hausmann's product space analysis, the opportunity set for India is identified. Consequently, using the "density" measure sectors and industries have been ranked on the basis of ease in achieving comparative advantage. The policy recommendations based on the secondary data analysis and case study interviews help us arrive at recommendations on mapping the future of high value manufacturing in India.

ENGINEERING COUNCIL OF INDIA

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