



# IEI MSC NEWSLETTER

Monthly Newsletter of the Institution of Engineers (India), Maharashtra State Centre

Chairman : Shri. H. O. Thakare, FIE

Hon. Secretary : Shri. M. B. Dagaonkar, FIE

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*God doesn't require us to succeed : he only requires that you try - Mother Teresa*

## Forthcoming Events

### 26th Indian Engineering Congress

December 15-18, 2011, Bangalore

Theme :

**Towards Prosperous India : Challenges for Engineers**

#### About The Theme

The theme of this year's Indian Engineering Congress will be "Towards Prosperous India – Challenges for Engineers". The great progress made by our country in almost all fields, owes in no small measure to the contributions made by our engineering community. Successive generations of engineers of our country can be truly proud of the contributions to make India a developed Nation in the shortest possible time frame. Soon, India will emerge as an economic super power on its own right.

In the light of trends for the future such as the fact that India's youthful working age population will be 64% of the population by 2026, that the manufacturing sector is growing by 9 per cent and sectors like the Chemical Industry has outpaced global growth by close to 500% all seem to point to a promising future. However, we have the challenging task of doubling our food production, tripling our energy generation and to enhance the infrastructure commensurate with the 1.2 Billion plus population. At the same time, other fundamental issues such as wide spread poverty, increasing and deepening inequality, illiteracy and low school and college enrollment rates, ill health, very high malnutrition among small children are the impeding factors inhibiting the accelerated national development.

A prosperous India for all its people and for future generations requires that all professionals not only engineers execute their professional duties ethically and achieving high degrees of quality and excellence. More than any other profession, we Engineers have to become change agents and prime movers in transforming India to

a truly prosperous nation in the coming years.

The Twenty-sixth Indian Engineering Congress being held in Bangalore is a fitting occasion for the engineering community across the country to rededicate itself to the task of building a prosperous India based on equity, ethics and excellence. The deliberations at the Congress will highlight the development pathways for making our country attaining self-reliance and self-sufficiency in vital sectors like housing, energy, transportation, communication, education, health care, food production and employment generation. India should become the most sought-after destination for investment, preferred source for services and manufactured goods for the whole world. "Made in India" should become the hallmark of quality and cost competitiveness. India should make a mark as world leader in new knowledge creation and innovation. The theme and the sub-themes will address related issues and focus on solutions from engineering perspective.

#### Memorial Lectures

Following seven Memorial Lectures have been instituted by IEI in memory of the outstanding engineers. These lectures form an important part of the Congress.

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| The 54th | Sir Mokshagundam Visvesvaraya Memorial Lecture |
| The 46th | Nidhu Bhushan Memorial Lecture                 |
| The 37th | Bhaikaka Memorial Lecture                      |
| The 33rd | Sir Rajendra Nath Mookherjee Memorial Lecture  |
| The 24th | Dr. Ajudhia Nath Khosla Memorial Lecture       |
| The 20th | Dr. Amitabha Bhattacharyya Memorial Lecture    |
| The 1st  | Prof. C.S. Jha Memorial Lecture                |

#### Glimpses of Engineering Personalities

Congress offers great opportunity to young engineers to benefit from the experience of experts / veterans from industry, research institutions and institutions of higher academic excellence. The Indian Engineering Congress is an eagerly awaited event in the year 2011.

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## Engineering Roundtable

Limited opportunity to participate in engineering /specially designed roundtables for interactive exchange of ideas and practices from other Engineering Professionals.

### Venue

Bangalore Palace Grounds

Bangalore Palace is a Historical monument spread across 454 acres in the heart of Bangalore City. This venue has witnessed – India's most prestigious events like IT.Com, BioCon, Global Investors Meet, MS TechEd, etc.

32,000 sft of main Auditorium with Air conditioned stage  
25,000 sft of Exhibition Area  
20,000 sft of Dining Lounge  
20,000 sft of Reception, Utility & Office area  
5 Parallel Halls for Paper & Colloquium presentations, Food Courts, Recreational area, Museum, etc. Ample Parking facilities, Highly Secured area with VVIPs around vicinity

### Contact

For any information relating to 26th Indian Engineering Congress. Kindly contact the following.

### Congress Secretariat

The Institution of Engineers (India)  
Karnataka State Centre  
No. 3, Dr. B.R. Ambedkar Veedhi, Bangalore 560 001  
Ph : 080 – 22261144; Fax: 22261188;  
E-Mail : info@iec2011.in

### Bangalore Co-ordinators

1) Ms.R.Gayathi – 974073011  
2) Mr.P.Joshi – 9739389400  
E-Mail : info@iec2011.in

### Regional Co-ordinator

#### Mumbai :

Mr.S.P.Sathyanarayana  
Tel – (022) 2354 2943 / 2354 3650.  
Fax – (022) 2354 2942.  
E-mail- icimsc@gmail.com



**44<sup>th</sup> Engineers' Day, 2011**  
on the theme “**Engineering Preparedness for Disaster Mitigation**”.  
**On Thursday, 15<sup>th</sup> September, 2011 at 6.00 p.m. at Mumbai**

Our Centre will be celebrating 44<sup>th</sup> Engineers' Day on 15.09.2011 at 6.00 p.m. at its premises on the theme

## “Engineering Preparedness for Disaster Mitigation”.

September 15 is celebrated every year in the country as "Engineers' Day" to commemorate the birthday of the legendary engineer Sir Mokshagundam Visvesvaraya. Sir Visvesvaraya, an eminent Indian engineer and statesman was born in a remote village of Karnataka, the State that is incidentally now the Hi-tech State of the country. Due to his outstanding contribution to the society, Government of India conferred "Bharat Ratna" on this legend in the year 1955. He was also called the precursor of economic planning in India. His learned discourse on economic planning in India, Planned Economy for India and Reconstructing India, was the first available document on the planning effort of the country and it is still held as the parent source matter for economic planners. A theme of national importance is chosen every year by the National Council of the Institution and deliberated at its various State/Local Centres to educate the engineering fraternity in general and the society in particular. This year the National Council of the Institution has selected the theme as "Engineering Preparedness for Disaster Mitigation".

The world is facing an increasing frequency and intensity of natural disasters that has devastating impacts on the society. As per International Strategy for Disaster Reduction (ISDR), it has been observed that over 5 million people were killed or affected in the last 10 years and a huge amount of economic losses occurred due to the natural disaster.

The recent incident in Japan showed a tremendous technological effect to the society. More than 25000 lives have been lost, infrastructure in the North East devastated apart from acute shortage of availability of food and water. The damage to nuclear power stations has severely affected the nearby populace and marine life. The power of this natural disaster shook the foundation of a nation like Japan, which is technologically quite advanced and developed. It is anybody's guess as to what would have happened if a natural calamity of such magnitude strikes our nation. It is therefore a call before the engineering fraternity to plan for engineering and technical solutions in case such an eventuality takes place.

During such serious disaster situations, the major challenges are the protection of human beings, animal's lives, properties and the vital life-supporting infrastructure necessary for disaster mitigation. It has now come to realization that taking care of the natural resources and managing them wisely not only assures the survival of future generations, but also reduces the risks that natural and man-made hazards pose to people living today. Advanced disaster management technology could provide a critical support system to disaster management authorities during the situation of disaster related crises.

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Such technology also provides the important inputs for any disaster management plan of action in recent times. In the pre-disaster evaluation, fixed satellite communication terminals would typically be installed by a qualified technical team in cases where the equipment may be required for longer than a week, for environmental monitoring, communications redundancy etc so that post-disaster recovery operations may be carried out properly. Post-disaster assessments have clearly illustrated that, along with disaster preparedness, proper management of the environmental features like air, land, water, forests, wastes and many more may be set up in reducing the risks and hazards. The term mitigation means taking actions to reduce the effects of a hazard before it occurs and it applies to a wide range of activities and protection measures that might be instigated in all aspects of disasters. Traditionally, disaster management makes use of indigenous and locally developed appropriate technologies to a greater extent. People in disaster-prone areas have developed, over generations the traditional technologies as efficient solutions to many of their disaster - related problems. However, many of these technologies and methodologies have only restricted applicability and possess limited potential to reduce the impact of disasters. Hence, the need arises for the application of modern technologies in disaster management, wherever and whenever possible. Many frontier areas of technologies such as space technology, modern information and communication systems, renewable energy, advanced medical diagnostics, remotely operated robotic systems for rescue and relief operations may be utilized. A number of advanced technologies and equipments have entered into the marketplace in recent years, which can provide the vital support to disaster management programmes.

Early warning, information of temporary shelters, effects of incoming disaster, evacuation plans and implementation through the use of modern communication system and network coupled with the application of modern technologies in disaster preparedness, search & rescue of disaster survivors, energy & power supply, food supply, storage & safety, water supply, purification & treatment and many more, could act as important and timely disaster mitigation tools.

To conquer the abnormal disaster based situation, a lot of awareness programme need to be organized nationwide so that the engineers can equip themselves with the knowledge and source of disaster mitigation techniques & tools and educate the common masses in the society about the same.

**The lecture will be delivered by Shri.S.S.Shinde, Jt. Municipal Commissioner, BMC.**

All members are invited for the fellowship dinner at the end of the function and are requested to attend in large numbers with family and friends to make the function a grand success.

Registration is NECESSARY. Please register yourself on 23542943/23543650 to help us in making better arrangements.

**2**

*Lecture in MARATHI on*

**“Varsha Sanchayan Ani Viniyog” (Rain Water Harvesting)**

**On Friday, 30<sup>th</sup> September, 2011 at 6.00 p.m. at Mumbai**

As per the letter received from HQ regarding organising **technical activities under the aegis of National Languages Promotional Committee (NLPC) our centre is organising the above lecture in Marathi.**

The City of Mumbai is facing acute shortage of drinking water. Considering the ever increasing city population, the Brihanmumbai Municipal Corporation has made it compulsory to all developers to provide Rainwater Harvesting System. To understand the design procedure and implication of RWH, a lecture meeting on the subject is arranged.

The lecture will be delivered by **Ms.Suprabha Marathe, Executive Engineer (Rainwater Harvesting and Water Conservation Cell), BMC.**

HIGH TEA will be served at 05.45 p.m.

Registration is Free but Necessary.

*For registration details, please contact our Centre's office on 23543650, 23542943.*

**3**

*Lecture On “Green Building*

**Architecture and Solar Specific Buildings” on Saturday, 01.10.2011, from 10.00 a.m. to 01.00 p.m. at Mumbai**

The importance of Green Building Architecture and Solar Specific Buildings is growing day by day. The Technical Committee on high-rise buildings, appointed by Government of Maharashtra, has been insisting on several aspects related to Green Environment.

The lecture will be delivered by **Architect Ms.Roshani Udyawar, Head, Institute of Environmental Architecture, Rachana Sansad, Mumbai.**

Practicing Architects, Engineers, and Builders are requested to take advantage of this opportunity and attend

in large number.

The lecture meeting is sponsored by SFMC (SAVOIR-FAIRE Manufacturing Company Private Limited), a leading manufacturing Polypropylene Random Copolymer (PP-RC) pipes manufacturing company in India.

Lecture will be followed by LUNCH.

Registration is Free but Necessary and is restricted to first 50 delegates only.

For registration details, please contact our Centre's office on 23543650, 23542943.

**4**

**13th 1-day workshop on "Structural Audit and Upgrading, Fixing Leakage and Waterproofing of Existing RCC Buildings, Durable Construction for Re-Development and for New Buildings with practical of Flexible Membrane Waterproofing System" on 01.10.2011, from 9 a.m. to 5.30 p.m. at Mumbai**

The course is designed for owners/users, civil engineers, architects, builders, contractors, supervisors, Society office bearers from top management to grass root level staff.

**Registration Charges :**

Non-Members : Rs.1200 per head  
Members of IE(I), ICI,  
ISSE, ACI, IIBE, PEATA : Rs.1000 per head  
Students : Rs.700 per head

**Venue :**

The Institution of Engineers (India), Maharashtra State Centre, 15, Haji Ali Park, K.Khadye Marg, Mahalakshmi, Mumbai – 400 034.

A discount of Rs.100 will be given to those who register and pay on or before 24.09.2011.

Valued Sponsors/Co-Sponsors are welcome.

All Payments can be made in Cash, Cheque / DD drawn in favour of "The Institution of Engineers (India), Maharashtra State Centre".

For more details please contact :

Mr. Jayakumar J. Shah on 9819242649 or our Centre's office on 23543650, 23542943.

**OBITUARY**

Dr.B.N.Pandya, FIE, expired on 16.08.2011.  
He retired as HOD, Structural Engg. Dept.,  
Sardar Patel College of Engineering.

We pray the Almighty for resting his soul in peace and granting fortitude to his bereaved family to bear this irreparable loss.

If undelivered please return to :

**The Institution of Engineers (India)**

**MAHARASHTRA STATE CENTRE**

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