

## The Institution of Engineers (India)

The Institution of Engineers (India), or IE (I), is a unique professional body encompassing 15 engineering disciplines and representing the interests of engineers on the global platform. Established in 1920 with its headquarters in Kolkata, IE(I) was incorporated by Royal Charter in 1935. It is the only professional body in India to have been bestowed with this honour.

IE(I) functions amongst professional engineers, academicians and research workers and provides a vast array of technical, professional and supporting services to government, industry, academic as well as to the engineering fraternity. It does so through over 100 Centres spread across the country and overseas. Currently, IE (I) has over 5 lakh members.

Since 1928, IE (I) offers a non-formal engineering education programme, successful completion of which is officially recognised as being equivalent to a degree in engineering and also post-graduate diploma leading to a Master's degree. Over 60,000 candidates appear in these examinations conducted biannually at a large number of examination centres all over the country and abroad.

### Maharashtra State Centre :

The Maharashtra State Centre of the Institution was founded in 1921. It covers whole of Maharashtra & Goa State. It is the largest centre of the Institution having around 27,000 members and 9 Local centres.

The centre has a vast industrial base around and acts as catalysts to bring into their fold, large number of technical persons. The centre has been very active in promoting and diffusing the knowledge, information and technology for engineering application through programmes like Lectures, Seminars, Symposia, Conferences, Workshops, Training Courses, Technical Journal and Paper Meetings, Site Visits, Film shows, Presentations, Competitions and Exhibitions etc.

### Library:

The Maharashtra State Centre of the Institution of Engineers (I) has been already engaged in offering educational and training facilities at different levels for engineers and managers organizing seminars, conferences, workshops and regular classes for students' appearing for AMIE examinations.. The Institution boasts to have updated library with latest collection of books, literature on various engineering aspects.

### ◆ Maintenance, Repairs, Rehabilitation and Water Proofing.

A RCC building deteriorates (falls sick) mainly due to leakage - seepage and dampness. These set in structural distress (corrosion of reinforcement bars) in RCC frame members e.g. columns, beams, slabs which are actually the back - bone of the building. Thus rehabilitation - restoration - upgrading of a buildings amounts to attending scientifically to above problems with latest scientific methodologies and specifications. Mr. Shah has perfected methodologies and specifications in detail for all problems in a RCC buildings. He will acquaint the participants with these with Do's and Don'ts. It is absolutely necessary to understand the methodologies and specifications to attend to various problems rather than taking guarantees and making contractors solely responsible. It is reported that guarantees have not been of much use. Mr. Shah unfolds the subject with photographs, sketches and develops confidence to plan the restoration work with latest scientific techniques. House - keeping, Regular Maintenance and Renovations are other very important aspects, in buildings which need proper attention by users' / society members. Mr Shah acquaints the participants in detail on these aspects.

### ◆ Durability

We hardly find a Building / Bungalow / Tower without leakage, seepage and dampness. Is it difficult to build buildings free of leakage, seepage & dampness ? Not at all. Mr. Shah gives all the tips to construct a building without leakage, seepage and dampness. Durability is the need of the hour. We must include Durability Parameters in our tender specifications and build durable structures only. This will delay deterioration of buildings with regular maintenance and huge sums now required to be spent on Repair / Waterproofing right at early age of the building, will be saved.

### ◆ Structural Audit

This is now compulsory and mandatory. What is Structural Audit ? This is nothing but comprehensive medical examination of the building. Faculty will acquaint participants with this hot subject.

### Reactions on First Work-shop held on 31-03-2007

Officer from CIDCO, Navi Mumbai

Mr. M. Mahadeo : 9833408553

◆ Your Seminar was highly informative and needs to be held at frequent intervals and at various locations - especially Navi Mumbai.

### Reactions on Second Work-shop held on 16-06-2007

1. Officer from Tarapur Atomic Power Station.

Mr. H. D. Singh CE (02525 - 282010)

◆ The programme has been very useful, interms of application of the same to Indian conditions and very informative to mitigate our problems.

2. Officer from Reserve Bank of India

Shri Manish Madhukar Gaikwad : 9970407921

◆ This one day work-shop was very helpful being a civil engineer. Nowadays old buildings / structures require restoration, So this was very valuable guidance and information to us.

3. Officer from National Institute of Industrial Engineering

Shri Uday Chandrakant Kadilkar : 9881408372.

Senior Superintendent (Estate)

◆ Very good, very useful for Civil Engineers, for day to day, maintenance work and future construction work. Mr. J. J. Shah takes pains for these work-shops. He is highly devoted. Thanks.

### Reactions on Third Work-shop held on 27-10-2007

Reader in Structure

Mr. K C. Rami

◆ Very informative, covers all aspects properly. Congratulations to Mr. Shah for exploring the problem faced by masses very effectively.

### Reactions on Fourth two full days Work-shop held on

12-01-2008 & 13-10-2008

1. Deputy Engineer (Design), BEST

◆ It is a very good work-shop. Every civil engineer must attend this and act upon it while working.

2. Mr. N. Mani, Chief Maintenance Dept. - Indian Oil

◆ The work -shop was informative and topics were backed with practical wisdom. The dedication, enthusiasm exhibited by faculty is highly appreciated.

### Reactions on Fifth two full days Work-shop held on

19-04-2007 & 20-04-2007

Architect and Structural Engineer

Mr. Kishore N. Bhoir

◆ We found this work-shop very useful for our professional practice as a Repair & Rehabilitation Specialist.

### Reactions on Sixth two full days Work-shop held on

04-10-2008 & 05-10-2008

Retired civil contractor, now advisor

Mr. Prashant S. Badheka

◆ An innovative and absorbing work-shop which is based on knowledge backed by your years of 'actual' field experience.

### Reactions on Seventh two full days Work-shop held on

17-01-2009 & 18-01-2009

1. NDT Dept. EPICON Consultants Pvt. Ltd.

Ms. Siddhika Kulkarni - 9220972508

◆ This was the first training programme attended by me. There were many new views, I got to think about.

The Repairs, Rehabilitation, Restoration, Durability-

every title has its unique meaning & which was properly made to understand.

The proper description and very small i.e. minute observations should be taken care off, brought a new view & site in mind.

Manish Shah, Bhattacharya Sir & J. J. Shah Sir thought many new aspects of working & which I feel will help me in my carrer in future.

2. Pantaloon Retail India Ltd.

Mr. Suryaprasad S. Rao - 09320564136

Feed back :

1. Good Information shared
2. Innovative
3. Well organized
4. Excellent hospitality
5. It should be more interactive & problem solving
6. Can be utilised more time by Mr. J. J. Shah insted of introducing marketing people.

#### Lodging :

Participants have to make their own arrangements for lodging. However, limited accommodation for outstation participants may be arranged in Institution's guest rooms on payment, as per institution rate.

#### Sponsors :

Valued sponsors are welcome to support this workshop as detailed below. The sponsors will have privilege of complimentary delegates, display their products, place banners and or distribute gift articles to the participants.

Sponsors : Rs. 15,000/-  
Co-sponsors : Rs. 10,000/-  
Table Space : Rs. 5,000/-

#### Who should Attend :

**Owners / Users**, Civil Engineers, Architects, Builders, Contractors, Supervisors / **Society Office Bearers** from Top Management Executives to grass root level staff.

**Apply** on plain paper / letter head with necessary details  
**Registration Charges :**

Rs.1000/- for Housing Society Office Bearers / for members of Engineering and architectural Institutes  
Rs. 1200/- for non members  
Rs. 700/- for Students

**A discount of Rs.100/- will be given to all those who register on or before 18.04.09. The fee is payable in advance by cash / crossed cheque / draft in favour of 'The Institution of Engineers (India), Maharashtra State Centre'.**

#### Brief bio-data of :

##### Nirmal K. Bhattacharyya :

Graduate Engineer BHU, Postgraduate (Structures) Pune. Retired Additional CE, Defense Ministry, 22 years

experience in major structural design, 7 years in teaching in College of Military Engineering, 12 years in various types of construction. Design with structural Rehabilitation of high rise structures, maintenance of large housing schemes since 1980.

Fellow / Memberships : 12 Professional Institutes, 46 technical papers, Counsellor, Arbitration, construction / design problems. Trains professionals : Concrete, construction / rehabilitation technology, personality development, basic managements.

#### Brief bio-data of :

##### Jayakumar Jivraj Shah

Expert : Durability, Repair, Waterproofing

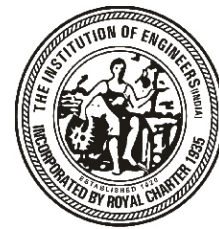
- Awarded Gibbs Prize in - 1952 - - for ranking First in Physics in Inter Science from Bombay University - from Ruia College.
- Bachelor of Engineering in Civil Engineering in 1957 from then Bombay University - from then Victoria Judilee Technical Institute.
- 33 years with Hindustan Construction mainly on projects as Project Manager in India & Abroad.
- Later, two years United Nations Specialist to Government of Jamaica.
- Author of following two books on Repair & Durability  
A Handy Guide for Repairs, Rehabilitation and Water proffing to RCC Buildings (Structures)  
A Handy Guide for Constructing RCC Buildings (Structures) Durable and Eco - Friendly for owners, users, Architects, Civil Engineers and Contractors.
- Co-opted member in the committee Instituted by Maharashtra Government to investigate sub-standard buildings built by CIDCO (2004)
- Dialogue with Shri Raju Parulekar on e-TV marathi in programme 'Samvad' on 27 & 28th of June 2006 on the subject 'Leakage & Cracks'
- Biography included in various directories of 'Marquls Who's Who USA'
- Since 2000 conducted innumerable training programmes in three subjects of his expertise and are continuing.

**Registration Charges are inclusive of Study Material. For more details please contact centre's office on 23543650 / 2354 2943**

or

*Jayakumar J. Shah*

203, Wing - B, Lakshmi Apartments, Corporation Bank Building, Behind Anand Nagar, Dahisar (East),  
Mumbai 400 068. - 28483541 / 9819242649  
jjshah123123@rediffmail.com or  
Shri N. K. Bhattacharyya - 25411771



## The Institution of Engineers (India) Maharashtra State Centre

### **Eighth One FULLDAY Workshop on**

- **Maintenance, Repairs, Structural Audit of Existing RCC Buildings**
- **Fixing Leakage and Water-proofing of Existing RCC Buildings**
- **Durable Construction for re-development and New Construction with practical of acrylic polymer-based flexible member water-proofing system.**

**on Saturday 25-04-2009  
From 9am to 10 am - Registration  
10 am to 5.30 pm Work - Shop**

#### Venue

The Institution of Engineers (India)  
15, Haji Ali Park, K. Khadye Marg,  
Mahalaxmi, Mumbai – 400 034.  
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Website : www.ieimaharashtra.org