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NEWSLETTER

The Institution of Engineers (India)

97 YEARS OF RELENTLESS JOURNEY TOWARDS ENGINEERING ADVANCEMENTS FOR NATION BUILDING

Dr. Girish Mundada, FIE, Chairman

Er. Avinash Nighojkar, MIE, Hon. Secretary

PUNE LOCAL CENTRE

Editor -Er. Rajendra V Saraf, MIE

FROM THE CHAIRMAN'S DESK



Dear Engineers,

Season Greetings to you from Institution of Engineers (India), Pune Local Centre !!

With blessings of elders and best wishes of colleagues, it's indeed a great privilege to Chair the session 2016-2018 of IE (I), PLC. I welcome all the corporate and non corporate members

of Pune Local Centre to visit our Institution, involve in conducting and participating in activities of engineering relevance and social transformation. I request all our members to enroll every engineer into IE (I) and advise engineering institutions to become "Institutional Member" to avail the benefits of "R & D grant in aid" and the sponsorship for Conventions/ Seminars/Research/ Projects/ Workshops. With the active cooperation and involvement of the members and institutions, the focus would be on,

- ★ Organizing National Conventions, All India Seminars, Workshops and Interdisciplinary Programs that shall integrate and network the engineering fraternity.
- ★ The Industry-Institute Interaction that shall bring placement opportunities to young engineers
- ★ Students' Chapters and Technicians' Chapter that helps grooming/skilling of budding engineers
- ★ Membership Drive to bring engineers on the interactive platform to enrich engineering experience
- ★ Digital Library and Guest house facility for the convenience of IE(I) members
- ★ GATE/ IES/ BEE/ AMIE refresher courses for young engineering aspirants

"Alone one can fly but together we all can soar"

Dr. Girish Mundada
Chairman
IEI PLC

FROM THE EDITOR'S DESK



Gudi Padava is the beginning of New Year. It is also celebrated as Ugadi in Andhra. On behalf of the Committee members of Pune local centre I wish you a very happy and fruitful new year. As Editor It is my great pleasure to put before you the News Letter for April 2017. This news letter will be stepping ahead to become information & knowledge

spreader amongst the engineers. The followings will be new features of New Letter.

- A. Engineers in News – For the engineers whose achievements are recognized
- B. Innovative ideas – Engineers can make their contribution with their innovative ideas.
- C. Students' Chapter – Activities of Student Chapter will be reported under this heading.
- D. Readers Comments - Your comments and suggestion will be added.

Few more will be added with your ideas, support and active involvement.

Engineers in news will be a feature for those engineers that have made some landmarks in the field of engineering. Engineer's contribution will be another feature that gives opportunity to put his/ her ideas and concepts among all the members for further discussion and development.

Last four Decades; the traditional transfer of knowledge from grandfather to father to son and to grandson is almost discontinued. The passed out young engineers directly go to the field without sharing the knowledge from senior most engineers. Most of the senior citizen engineer must be remembering that they were groomed under the guidance of their senior engineers. The experienced senior engineers must take the challenge to share their experience with the newly tagged engineers.

I am thankful to committee members for bestowing me with opportunity to serve as editor.

Er. Rajendra Saraf
Editor
IEI PLC

Celebration of "World Women's Day"
Theme - Will you #Be Bold For Change?

World Women Day was celebrated in Firodiya Hall of The Institution of Engineers (India), Pune Local Center on 10th March. Director ARAI, Er. Rashmi Urdhwareshe was invited to deliver address.

Er. Veena Gore welcomed the guests & informed about role of Women Engineers' Cell and various programs organized by the Cell. Chairman Dr. G. S. Mundada gave an account of IEI PLC activities. Er Er. Shubhangi Chiplonkar introduced the speaker Er Rashmi Urdhwareshe as the first woman Director of the well National Institution Automobile Research Association of India (ARAI) & her contribution to Automobile sector. Er. Rashmi Urdhwareshe, explained functions of ARAI and spoke about Future Trends in Automobiles. She emphasized the importance of networking and communication in the vehicles. She touched upon modes of transport like Hybrid, Electric and Fuel cell powered vehicles for near future and capsules and tunnels for distant future. She presented infrastructure available at ARAI in Pune region for Homologation testing as well as Research and Development activities for Industry. She highlighted role of ARAI in formulation of emission standards and implementation plan for Bharat Stage VI norms for harmonization with global standards. This was followed by an interactive Question & Answer session with Er. Rashmi Urdhwareshe conducted by Er. Rujuta Desai. Some of the important answers given by her are as below.

- When asked about importance of interdisciplinary fields, Er. Rashmi opined that it is extremely important for an Engineer to learn interdisciplinary subjects and even go for noncredit courses as it is the need of hour.
- While answering question on job opportunities in Auto Sector, she said that there is lot of scope in this sector for students of all the branches.
- On a question about hurdles in her own career, she narrated which challenges she has overcome as a woman engineer. She also mentioned about the support she got while completing master's degree program.
- About the career development: She talked about three phases in one's career, considering converging skills and disruptive growth, these are learning skills, applying them for earning, mentoring others.

Audience highly appreciated the program. Er. Veena Gore proposed vote of thanks. Convener Er Veena Gore, Co-Convener Er Rujuta Desai and Er. Shubhangi Chiplonkar together made the Celebration the grand success. Hats off to Women Engineers.



Gate Refresher Courses 2018

The refresher course will start soon at PLC. To begin with the kick off meeting was arranged on 14th March in Kale Hall at 6.30 PM. Prof. N. V. Sahstrabudhhe, Dr. S. B. Somani, Dr. P. G. Shete, Prof. Mrs. A. K. Bhatawadekar, Prof. K. K. Ghosh, Prof. S. P.K Kavishwar, Prof. Ms. A. A. Deshmukh & Chairman PLC Dr. G. S. Mundada attended the meeting. It is decided to start GATE course for Electronics, Mechanical, and Computer Engineering. Soon Civil and Electrical Engineering will be added. The Courses will start on 15th June. The details will be soon uploaded on the PLC web site. Prof. Ms. A. A. Deshmukh proposed Vote of Thanks.

AMIE Students - Career Development in Mechanical, Civil and Electrical Engineering

It was organized on 18th March 2017 in Firodiya Auditorium, exclusively for AMIE students. Fifty students attended the program. Mr. Ashok Kumar, Director, EduCADD Aundh was the speaker. Er. Harshawardhan K. Devkate conveners of the program welcomed and introduced Mr. Ashok Kumar. He said the speaker of today is most appropriate as he is AMIE passed out in 1997. Mr. Ashok Kumar spoke about the opportunities for AMIE students. He explained the demand of engineers in the industry. He said that at present most of the works happened on soft ware. AMIE students have to develop their strength in soft ware handling. He said that if AMIE students eliminate these lacunas they can compete with full time BE/B tech Students. The participating students were fully inspired by the speaker.





National Safety Day

The world water day was celebrated on 22 March in association with Indian Water Works Association, Pune Centre, Maharashtra Jeevan Pradhikaran, Pune Region, Marathi Vidnyan Parishad, Pune SEERAM, and Pune. Since theme is Why Waste Water, the visit to STP at College of Engineering, Pune was arranged to begin with. The plant is designed by NaWaTech. The visitors have seen working of plant along with re of Sewage water for WC flush. The celebration of World Water Day began at 6.30 P.M. at Firodiya hall on IEI PLC. Kalash poojan was performed by dignitaries on Dias. Dr. Girish Mundada chairman of PLC welcomed the delegates and spoke about the role of IEI for bringing the engineers together. Er. B.D. Yamgar SE MJP and chairman of IWWA welcomed the audience and highlighted the role of IWWA in Water Sector. Dr. Mangesh Kashyap from SEERAM presented role of SEERAM in environment management. He said there is urgent need to come together to reduce wastage. Er. R.V. Saraf Convener presented the theme of World Water day – Why Waste Water? He said that 663 Billion people of world still deprived from potable water. All water resources getting contaminated due to indiscriminate, discharges of agriculture run off, sewage and effluent. He concluded with the 4 following questions:-

1. Why waste potable water?
2. Why waste water?
3. Why water is waste?
4. Why waste water is not value added Product?

The panel discussion begins after celebration. Dr. A.D. Patwardhan spoke about Advanced Water and Waste Water technology. He highlighted various advanced treatment technology with the advantages and disadvantages. Prof. Ravindra Thanedar presented the work of COEP on floating islands for polluted river water treatment. He has given the details of experiments and finding and conclusions. Er. S.V. Tandle explained the issues on operation and maintenance on STP. Mr. D. B. Panse presented the summary of Work done by NaWaTech. Mr. Jagdish Khanore Superintended engineer of Pune Municipal Corporation (PMC) presented landmarks STP of PMC. He said PMC is in forefront to tackle the issues of waste water treatment. He presented the summary of work done by PMC. The panel discussion was open for interaction with audience. A very interactive session took place for suggestion for reduction of water consumption and waste generation. The program was concluded with vote of thanks by K.M. Pate, Treasurer IWWA Pune Centre.

The Institution of Engineers Pune local center has celebrated National Safety Day on 4th March-2017. Mr. Ajay Paste, Chief Safety Officer GKN Drive Line India Ltd. Pune , Mr. Rajan Lakhe, Joint Director Industrial Health & Safety, Govt. of Maharashtra & Mr. Mahadeo Mhaske, DGM. IVRCL have graced the celebration. Dr. G. S. Mundada Chairman welcomed & felicitated the dignitaries. Er. Dhone D.B. spoke about the day & also introduced dignitaries. Mr. Mhaske highlighted the importance of safety in construction Industries. Mr. Rajan Lakhe has elaborated safety by singing poems & Mr. Ajay Paste has given presentation on the safety practices implemented in GKN Drive Line India Ltd. Mr. H. K. Devekate Co-convenor of the Program given Safety pledge to audience. Er. Dhone Past Honorary Secretary and Convenor proposed vote of thanks. The celebration created awareness for Safety.

Reach Out – to Principals of Polytechnic

A meeting of principals of Polytechnic Colleges from Pune & Satara was organized on 16th March in Kale Hall at 3 PM. It was arranged to develop the relations between The Institution of Engineers (India) (IEI) and the Polytechnic Colleges for better involvement in IEI activities. Principals & representative from 27 Polytechnic Colleges participated in the Meet. Prof. D.B. Dhone welcomed the audience. He gave brief information of the various activities of IEI. He informed the delegates about the procedure of forming student chapter for students in Polytechnic Colleges. Principal W.G. Kharche informed the delegates about major activities of Pune Local Centre. He appealed the deluges to form student chapter in their respective college. He also explained the importance of membership IEI for the teaching faculty and requested all to become member of IEI. Er. K. K. Ghosh gave presentation on IEI activities & the examination scheme of AMIE. He also briefed about various days celebrated by PLC. Dr. G. S. Mundada Chairman PLC spoke about the importance of Charter Engineer and various benefits of membership. He said that IEI can be a forum for academic and industry to come together for better development of students and colleges.

Popular Lecture Series in Association Marathi Vidnyan Parishad

Since last 15 years a popular lecture series on Science and Technology is being organized by Pune Local Centre in association with Marathi Vidnyan Parishad. The program is on 3rd Tuesday of every month at 6.30 P.M. in Firodiya hall. The program is conducted in Marathi.

On 21st March 2017 Mr. Shriniwas Sharangpani who was the Head of R & D of TATA Motor has delivered talk on Development of Automobiles. He said that the development of car requires making of different types of models and carrying out various tests. Minimum time required for the development of car is never less than 3 years. Hundreds of models are prepared and different tests are carried out at the costs of Crores of Rupees. Then the car comes on the road. He further said that, considering the demands of customer the modern amenities & facilities are added into the car. For goods car the test are carried out on the roads and in different climatic conditions to make the model robust for Indian conditions... There is continuous up gradation and development in automobile industry. The Indian automobile industry is giving the importance to Research and Development. This is making Indian made car better than imported cars. He has pointed out that though Nano car is excellent, it could not get a response because of lack in proper planning and policy. The program was followed by Question and Answer session. Dr. Girish Mundada has welcomed the audience and felicitated the speaker. The Executive President Er. Yashwant Gharpur in his concluding remark said that we engineers & scientists have to take challenges of modern car demand in India.

Engineers in News

Er. Rajendra Mahulkar Fellow member of Environmental Engineering division is always in news for his contribution on Metro in Pune, Leakages of Dam and many other issues. Recently the Sewerage scheme designed for Phaltan with estimated cost of Rs. 75 Crore is sanctioned by Government. Heartiest congratulations to Er. Mahulkar.

A K Sinha, Fellow, IEI & former Senior Scientist, ISRO

Delivered an expert lecture entitled "Strategic Technologies - A Briefing on Defense, Nuclear and Space - ISRO from Laboratory to Orbit" on February 23, 2017 at AISSMS Institute of Information Technology, Pune under their ISTE program. He has introduced a broad Technology Management topic depicting Evolution and Milestones Accomplishments in Strategic sectors of Defense, Nuclear and Space Programs in India with emphasis on Indigenous Strength and Self Reliance, enhancing the Nation's Image as a Technology hub.

Words of Appreciation

A K Sinha

Former Senior Scientist, ISRO and Fellow, IEI.

Quite informative. I am delighted to see the Highlights coverage of ISRO.

Neelkanth Patwardhan , Past Chairman PLC

Nice that Pune centre of IEI has emailed the march issue Newsletter. Now I am 83+.

This is more so for senior past chairman like me.

Moreshwar Kashikar

Advancing age and thickening traffic make it difficult to visit IEP as frequently as required. The effective and efficient arrangements for utilization of services and experience of the retired engineers in nation building activities still await materialization.

D.R.Parkale

Local centre monthly news letter is attractive, useful & creating awareness through News Letter. Also very good efforts observed for making attractive news letter. Further I would like to request you to add half page on energy conservation initiative taken by industry in Maharashtra for once in 3 months in news letter.

GLIMPSES OF PROGRAMMES HELD IN MARCH 2017



Visit to Sewage Treatment Plant at the Hostel of College of Engineering, Pune



Kalash Pujan by the Dignitaries



Panel Discussion on theme Why Waste Water?



Mrs. Manjiri Patil Student from Department of Technology, Savitribai Phule Pune University



Career Development in Mechanical, Civil and Electrical Engineering – Audience



Career Development in Mechanical, Civil and Electrical Engineering - Mr. Ashok Kumar, Director, EduCADD Aundh addressing the gathering

GLIMPSES OF PROGRAMMES HELD IN MARCH 2017



Reach Out – to Principals of Polytechnic



National Safety Day 4th March



National Safety Day



Celebration of **World Women's Day**
Felicitation of Chief Guest



Celebration of "World Women's Day -
Er. Rashmi Urdhwareshe addressing the gathering



Joint Program with Marathi Vidnyan Parishad
Mr. Shrinivas Sharangpani Delivering the lecture
on Development of Cars

Students Chapter of IEI

Inauguration of Student Chapter of PES's College of Engineering, Phaltan

Inauguration ceremony of Student Chapter of PES's College of Engineering, Phaltan was conducted in the presence of Chief Guest Er. Rajendrakumar Saraf (Environmental Engineer of IEI, Pune) at 11 AM on Saturday, 11 March 2017 in Department of Mechanical Engineering. Saraswati Pujan & lighting of lamp was done by the Chief Guest and dignitaries on the dais. The HOD of Mechanical Engineering Department Mr. A. A. Ranaware introduced importance of Student Chapter. Prof. N. M. Ingale Introduced Er. Rajendrakumar Saraf. Mr. A. A. Ranaware (HOD of Mechanical Engineering Department) felicitated Chief Guest. As Chief Guest, Er Saraf has given inspiring speech. He highlighted the urgent need of capacity building of engineers to face the challenges. Vote of thanks was given by Prof D. S. Bhoite (HOD of Civil Engineering Department).

After Inauguration Mr. Rajendra Saraf has delivered lecture on **Science & Engineering of Listening**. He has explained the importance of listening with the references from Ved, Upanishad, Dnyaneshwari, Dasbodh and Bhagwat Gita. He said that, Shravan is the 1st step of listening. He explained the benefits of listening with various examples. Good listening skills can provide one with a deeper level of understanding about someone's situation, and helps to know what words are best to use or which words to avoid. He has given the Code of conduct for the good listener. He explained the physiology of listening. He said that perfect listening is not only by ear but along with eye, nose, mouth, skin, mind and intellect. Listening is unique process and cannot be mixed with other. Sequential operations in listening process are Shravan (Listening) -> Manan (Remembering) -> Chintan (Thinking) -> Acharan (Implementing). He said that listening is a process with four sequential unit process and there is time required for each process i.e. Delivery of Words by Speaker (T1), Reaches to the Ear of Listener (T2), Message to Nervous System (T3), Store (T4) and Assimilate. The time between two unit processes can be used for multiple listening. After explaining the Science and Engineering of listening he conducted the practical for perfect and multiple listening. The first practical was conducted to expand the capacity of listening and thinking. Second practical was to develop pin pointed attention to the speaker. In third practical, the time between two unit processes of listening was used to listen more than one time. Fourth and fifth practical were for multiple listening. The lecture followed by the practical buildup the capacity of student to become a good listener.



Felicitatation of Chief Guest Mr. Rajendra Saraf



Mr. Rajendra Saraf Explaining concept of listening

Required Urgently

OFFICE SUPERVISOR / IN-CHARGE

Preferably Engineer and Member of IEI with hands in office management of educational institute and computer operations. No age limit. Retired Engineers can also apply. Contact with Bio- Data & salary expectations on following numbers 2.30 pm to 8.30 pm on working days. Telephone : 020- 25533376, 25520239, 25530250

FORTHCOMING PROGRAMMES

Date & Time & Venue	Program Details	Convenor
18 th April 6.30 PM Firodiya Hall	Water Resource Day Celebration Round Table Discussion Preservation & Protection of our Water Resources. In Association with, Jalsampada, CWPRS, NWA, MaViPa, SEERAM and others.	Er. R. V. Saraf Er. R C. Mahulkar
27th April 6.30 PM Kale Hall	Woman Engineering Cell Presentation by award winning team of Sinhgad College of Engineering Pune for the competition called 'e BAJA' 2017. The competition is conducted by SAE INDIA sponsored by Mahindra and Mahindra Ltd. From 2015 virtual BAJA (e BAJA) is conducted for IT/COMP/E&TC students. Students of engineering colleges are supposed to Design, Build, Test and Present ATV (All Terrain Vehicle) single seated four wheeled. This presentation will be informative and useful to all engineers.	Er Veena Gore Er. Rujuta Desai
4 th , 11 th , 18 th & 26 th Tuesday 5.30 PM Seminar Hall 1	Water Resource Group & Energy Forum Meeting The meeting is held on every Tuesday to discuss various issues related to Water & Energy. Please get involve and be a part of Group & Forum	Er. R. V. Saraf Er. S. V. Tandale Er. A. H. Kelkar
13 th April 2017 6.30 PM Water Treatment Plant, Near Appughar, Nigdi, Pune	PCMC Extension centre Dobhi Ghat concept for villages Bilwa Deo (Architecture – Town planning)	Er Rajeew Bhavsar Er. S. V. Tandale

Other Events / Activities.

- 1) Vidyut Suraksha Manch – Every Second Saturday – 6.30 pm. at PLC
- 2) Energy and Water Resource Group – Every Tuesday 5.30 pm. at PLC
- 3) Lecture in association with मराठी विज्ञान परीषद -
Every third Tuesday – 6.30 pm. at PLC
- 4) Infrastructure interaction – Every Fourth Tuesday 5.30 pm.
- 5) PCMC extension centre meeting - Every second Thursday – 6.00 pm.
at Water Works (near Appughar)

Dear Er. Avinash Nighojkar Hon Secretary
We pray for you and your family. God has a reason to all that he does, may be this time he decided for your loving mother Mrs. Vimal Keshav Nighojkar so that she can take rest in heaven to begin the next journey. She will always be a part of our thoughts, and will be cherished in our heart.