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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. Rajendrakumar V. Saraf, FIE

FROM THE DESK OF ER. VEENA GORE, COMMITTEE MEMBER, PLC



Dear Fellow Engineers,
Pune has been the pioneer in women's education for over a century and a half. Mahatma

Jyotiba Phule and Dhondo Keshav Karve are the key figures in this movement. Naturally the city is also at the forefront in women's engineering education. During 1960s there used to be just a handful of female students in the College of Engineering (the only one in the city at that time). Today most of the engineering colleges in the city have a large number of female students (and teachers too). IEI Pune Local Centre organized a women engineers' convention in the year 2000 which was the first of its kind in India. It was attended by over 300 women engineers from all over the country. That is when the women engineers' cell was formed in the Pune Local Center. The cell has been active for the last 17 years.

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Real Estate (Regulation and Development) Act



Government of India has enacted the Real Estate (Regulation and Development) Act 2016 and all the sections of the Act shall come into force with effect from May 1, 2017. The key objectives of the Act are:

- Ensuring Transparency & Efficiency in real estate sector in regards to sale of plot, apartment, building or real estate project.
- Protecting the interest of consumers in real estate sector
- Establishing adjudicating mechanism for speedy dispute redressal
- Establishing Appellate Tribunal to hear appeals from the decisions, directions or orders of the Real Estate Regulatory Authority

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FROM THE EDITOR'S DESK

According to the HRD ministry, India has 6, 214 engineering and technology institutions



which are enrolling 2.9 million students. Around 1.5 million engineers are released into the job market every year. The number is next to China. However most of them do not have adequate skills to be employed. We have premier institutes like IITs, top NITs and other private engineering colleges to give the best engineers. However most of the engineers passed out from these Institutes are reluctant to work in the core engineering. Majority of graduates Engineers are mediocre in their field of specialization. It is sad but true. Though the quantity of universities, colleges and programs are increasing in the country, the lack of quality education persists. There are many well known & unknown reasons. Graduates are collecting

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Golden Opportunity to Serve

Pune Local Centre a Most Vibrant Centre of IEI is looking forward to have dedicated and devoted retired engineer preferably member of IEI to take ahead day to day activity of IEI PLC office. For detail Please contact Er. Avinash Nighojkar Secretary PLC - 9850549741

It conducts many programs regularly including lectures by women engineers, seminars/workshops for students of engineering colleges, interviews of women entrepreneurs, industry-institute-interaction programs etc. Now the focus of the cell is on projects important for 'make in India' and for interdisciplinary problems. Current local managing committee has four women engineer members in three divisions namely Civil (2), Mechanical (1) and Computer engineering (1). Further Pune Local Center has a program to recognize excellence in women entrepreneurs and achievers. This needs help from the widely dispersed community of women engineers. I want to appeal to all women engineers occupying important corporate positions to join us in this noble activity of dissipation of knowledge and recognition of excellence. I hope you will come forward in large numbers to support the women engineers' cell. If you wish to contribute effort to this cause, kindly contact any of the four women members of the local managing committee and Er. Shubhangi Chiplonkar (9822094460), who has shown exemplary initiative in promoting the activities of the cell.

Under this Act, Government of Maharashtra established Maharashtra Real Estate Regulatory Authority (MahaRERA); vide Notification No. 23 dated 8 March 2017, for regulation and promotion of real estate sector in the State of Maharashtra, with its headquarters at Mumbai.

Consequently, Government of Maharashtra also promulgated the following rules:

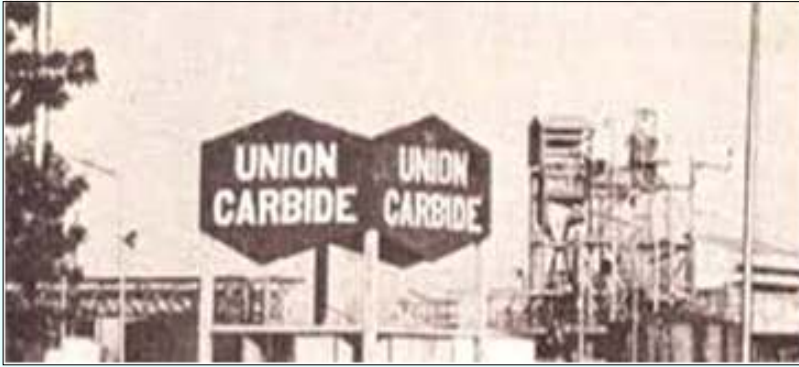
- Maharashtra Real Estate (Regulation and Development)(Registration of Real Estate Projects, Registration of Real Estate Agents, Rates of Interest and Disclosures on Website) Rules, 2017
- Maharashtra Real Estate Regulatory Authority, Officers and Employees (Appointment and Service Conditions) Rules, 2017
- Maharashtra Real Estate (Regulation and Development) (Recovery of Interest, Penalty, Compensation, Fine payable, Forms of Complaints and Appeal, etc.) Rules, 2017
- Maharashtra Real Estate Appellate Tribunal, Officers and Employees (Appointment and Service Conditions) Rules, 2017
- Maharashtra Real Estate Regulatory Authority (Form of Annual Statement of Accounts and Annual Report) Rules, 2017
- MahaRERA has notified the following Regulations and Orders
 - The Maharashtra Real Estate Regulatory Authority (General) Regulations, 2017.
 - The Maharashtra Real Estate Regulatory Authority (Recruitment and Conditions of Service of Employees) Regulation, 2017.
 - Charges for accessing Maha RERA web-based Application for registration of project and real estate agents, extension of registration for projects and real estate agents including updating website, database management and maintenance under regulation 48 of the Maha RERA General Regulations, 2017 Maha RERA is headquartered at Mumbai.

To read more visit <https://maharera.mahaonline.gov.in>

It is a general trend that role of Engineer in any act is not taken in consideration. So is the case with RERA. Please send your comments to include it in the next Bulletin.

their degrees despite not being skilled enough to be a productive part of the Indian economy. Indian engineers can literally flood the globe in almost every sphere if they are equipped with knowledge & skill. The students from the Engineering colleges in Taluka, & small towns need the guidance to use their potential to become the talented engineers. The students from these colleges have the exposure of the real life and natural instinct to find out the way from the crisis. They know the real art to sustain in the life. Recently I have an opportunity to visit the Engineering College at Taluka place. Amazingly I noticed the great potential in them to find the engineering solutions for many problems. They have capacity to think out of syllabus. One of the students has shown the demonstration of use of waste plastic to retain the moisture in soil. He learnt this out of his experiment carried out in his farm land. Once again I appeal to all senior engineers to come forward to contribute your knowledge & experience to develop these budding engineers for Make in India. The Student chapters are requested to invite senior engineers for lecture series and interaction with the students. Next issue will publish the list of senior engineers who are ready to visit our student chapter. Please mail your details to editorieiplc@gmail.com or plc.iei@gmail.com

11TH MAY 2017 BHOPAL GAS TRAGEDY–
THE INSIDE STORY BY MR. DEELIP PARANJPYE



The Bhopal Gas Tragedy, 1984 was a catastrophe that had no parallel in the world's industrial history. About 500,000 more people suffered agonizing injuries with disastrous effects of the massive poisoning. None can say if future generations will not be affected. India has taken lesson from this catastrophe made stringent rules & regulation to eliminate the disaster. Dr. Girish Mundada, Chairman, IE (I), PLC welcomed the audience & felicitated the speaker Er. Vikas Apte

Convenor introduced the speaker Er. Deelip Paranjpye did B. Tech Mechanical Engineering from IIT Kanpur and M. Tech in Machine Design from IIT Bombay. He served as Group General Manager in Union Carbide. Er. Paranjpye said that Bhopal Gas Tragedy, 1984 was a catastrophe that had no parallel in the world's industrial history. In the early morning hours of December 3, 1984, a rolling wind carried a poisonous gray cloud from the Union Carbide Plant in Bhopal. Forty tons of toxic gas (Methy-Iso-Cyanate, MIC) was accidentally released from Union Carbide's Bhopal plant, which leaked and spread throughout the city. The result was a nightmare that still has no end, residents awoke to clouds of suffocating gas and began running desperately through the dark streets, victims arrived at hospitals; breathless and blind. The lungs, brain, eyes, muscles as well as gastro-intestinal, neurological, reproductive and immune systems of those who survived were severely affected. Thus Bhopal Gas Tragedy is the single largest Industrial accident to date in terms of loss of human life.

He further explained the chemistry of Methyl Isocyanate popularly known as MIC - a lethal gas that leaked out from the factory. The production operations in the factory were discontinued for a number of years prior to the accident. MIC is an intermediate product in the manufacture of pesticides and a substantial quantity of gas was stored within the factory premises in Tanks. MIC coming in contact with water results in an exothermic reaction. The reaction rate is insignificant when the gas temperature is maintained below 4°C but it increases substantially at higher gas temperatures. The heat liberated by the exothermic reaction increase the temperature of the gas which in turn increases the reaction rate and the reaction reaches a runaway rate very soon at a certain temperature. This is exactly what happened at Bhopal. The contamination of gas with water resulted in a runaway reaction resulting in large quantities of gas being released from the chimney of the factory into the atmosphere. The gas was inhaled by the people in Bhopal resulting in either loss of life or many other medical conditions. He further elaborated that the factory initially had in place all the safety precautions to prevent any accidental release of the gas into the atmosphere. He highlighted that such major accidents do not happen due to a single cause but a series of events which eventually result in such deadly accidents.

He pointed it out that all the safety features originally provided failed one after another in a sequence as detailed below:

1. The Refrigeration system originally provided to maintain the temperature of MIC below 4°C had become inoperative for quite some time before the accident.
2. The gas released from the tank was originally supposed to pass through a Caustic Soda scrubber where Caustic Soda would neutralize the MIC rendering it harmless. This could not happen because the scrubber had no Caustic Soda as the factory had run out of this long before the accident.
3. The released gas would next pass through the factory chimney where a continuous flame of LPG would burn out the gas and make it harmless. The flame had been shut off long before the accident as burning LPG was thought to be a waste of money.

The failure of all above safety measures resulted in the release of large quantity of gas which spread out in the air and descended on populated areas. The gas was inhaled by a large number of people resulting in very serious medical conditions. The hospitals in Bhopal were not conversant with the treatment measures for gas affected human beings which resulted in a large number of casualties. Havoc was the ultimate result. The speaker highlighted all the points quoted above with very illustrious photographs during his presentation. He also highlighted that the accident could have been avoided. The lecture was followed by a lively discussion amongst the speaker and the audience as to the causes of the accident and the lessons for the future from the accident. Er. Vasant Shinde, Past Secretary, IE (I), PLC proposed a vote of thanks.

17th May - World Telecommunication and Information Society Day (WTISD)



It was celebrated jointly by The Institution of Engineers (India), Pune Local Centre, Institute of Electrical and Electronics (IEEE), Pune Section, Institution of Electronics and Telecommunication Engineers (IETE), Pune Centre and Institution of Engineering and Technology (IET), Pune Chapter, on Wednesday 17 May 2017 at the premises of Institution of Engineers (India), Pune Local Centre. The ICT theme for the year was "Big Data for Big Impact". Prof. Dr. G. S. Mundada, Chairman IEI PLC & Convener welcomed the gathering & introduced IEI and activities at PLC. He said that there is need to bring together all alike institutions and technical societies, collaborate and march ahead with the implementation

of the suggestions emerging out of day celebrations. Prof. Dr. G.S. Mani Chairman IEEE, Pune Section, briefed about the activities of IEEE. Er. G.K. Dawara Chairman IETE, Pune Centre, talked about the activities of IETE. On behalf of Dr. Metkar, Chairman IET Pune, Prof. Rajesh Khade Treasurer narrated the activities of IET. Mr. Kishore Shende, Secretary, IETE, Pune Chapter read the message of ITU Secretary General, Houlin Zhao and introduced the theme "Big Data for Big Impact" to the house. Prof. Kaustubh Sakhare, Secretary, IET Pune Chapter introduced Guest of Honor Dr. Sandeep Deshmukh, Big Data, Hadoop, Apache Apex Trainer and Consultant. Rajshree Jain, Secretary, IEEE Pune Section introduced Chief Guest Er. D. C. Dwivedi, PGM, BSNL. Chides Guest was felicitated by Dr. Mundada and Er. Dawara whereas the Guest of Honor by Dr. Mani and Prof. Sakhare, by offering bouquet and memento.

Guest of honor Dr. Sandeep Deshmukh, Big Data, Hadoop, Apache Apex Trainer and Consultant delivered Theme address with his rich knowledge & experience. He presented the happenings in future due to advancement of communication technology. If you are going to mall to purchase monthly requirements, during car parking a message will be received on the dash board that gives all information with comparative prices of all items (in the list) from different makes / manufacturers along with location of product in the mall. This will save the time & toil need for searching. You will be welcome in the restaurant with your favorite drink. When you are settling down on your sofa & sipping your coffee TV in your home automatically switches over to your favorite News/ Sports channel. He affirmatively said that all these can happen in near future. There was a time when companies were struggling hard to find customer-preferences so that they could fine tune their products for better customer satisfaction. With the advent of Social Media, Data scientists got busy in analyzing the blogs and twitters to find the preferences of common man. Analysis of such data can help to improve business marketing strategy because the needs of the customer are better understood. Also business can then find ways to effectively anticipate and address those needs. However with the social media outburst, there is increasing 'flood of data' leading to information overload. It is reported that the world's volume of data doubles every 18 months. Some experts have predicted that enterprise data in all forms will grow 650 percent over the next five years. This data comes from various sources – Social media News feeds, Emails, Instant Messages, RSS feeds, Spreadsheets, customer Databases, on-line portals ,Friend contact lists etc. Real challenging task ahead is extracting intelligence out of the enormous quantity of data coming from different types of sources. Those who master the task of analyzing this big data with Artificial Intelligence and Machine Learning techniques will rule the next IT wave.

The Chief Guest Er. D. C. Dwivedi, PGM, BSNL gave background of the growth of telecommunications in our country and outlined the role of BSNL and other players in this process of rapid and vast development. He emphasized the role of telecoms in the economic growth and looked forward for a bright future for the country in this field. The large gathering in the hall actively participated in Question Answer Session. This has given opportunity to interact with the expert in the field. Dr. Jain Secretary IEEE proposed Vote of Thank. High tea at the end of the program further added to the networking amongst the enthusiastic participants with the guests. The program concluded with opening of many opportunities for the budding engineers.

15th May 2017, Nano- bio material and its application by Dr.Jyutika Rajwade Scientist Agharkar Research Institute

Dr. Rajwade lecture was attended by more than 20 people from Industry academic Institutions, The discussion held with reference to the interconnection with biotechnology , bioprocess and Nano biomaterial, the speaker nicely explained this significance of Nano material and bio processes , she explained the different bioprocess application with nanotechnology such as formation of Nano silver particles and similar applications. The discussions also took place about the possibility of startup for commercialization of process using Nano-bio-materials. Some of the participants have shown the keen interest. The extensive interaction discussions took place with active participation of members who attended the lecture.

**Popular Lecture series Braille Printing by Dr. Jayant Chiplonkar
on 21st February 2017 – Program Missed from Reporting**

This excellent presentation was jointly organized by Institution of Engineers and Marathi Vidnyan Parishad. Er. Y. H. Gharpure, President, Marathi Vidnyan Parishad, welcomed the guests and gave brief account of activities of Marathi Vidnyan Parishad. Then Er. Rajendrakumar Saraf spoke about activities of Institution of Engineers, Pune Local Center. Er. Shubhangi Chiplonkar introduced the speaker Dr. Jayant Chiplonkar. Mr. Chiplonkar said that after retiring as a Scientist from National Center of Cell Science in 2004, he came in contact with a residential school for blind girls in Alandi. He was touched by the problems faced by these girls in their learning process. While studying the process of “Embossing Braille” scientist within he started thinking about alternate processes to overcome limitations. He thought why not “Print” Braille text instead of conventional “Embossing” and also include line drawings and make it longer lasting. He worked hard to devise the process of raised tactile Braille printing. He has been sending printed braille calendars to schools in Maharashtra, free of charge, for last 12 years. Now he prints books as well. He was shocked to know (from a WHO report) that about 40% of visually impaired people in the world are in India and majority of them are from low income rural groups. In developed countries lot of facilities are available for the visually impaired people; but in India we lack behind. He therefore focused on printing Braille in Marathi for the benefit of blind children in Maharashtra. This can of course be made available in other Indian languages also. He explained various forms of raised letters used to create literature for visually impaired over last 3 centuries and how Braille in 6 dot format was universally accepted. He showed variety of equipment used for writing / embossing. He highlighted limitations associated with embossed literature in Braille. He proudly mentioned that the calendars and books printed by him are lighter in weight and smaller in size, contain line drawings and to top it all, are longer lasting. He presented calendars, made by him. Majority of these included a small article, followed by the 12 months of an academic year, from Jun to May. In these calendars, weekly holidays and special holidays are highlighted with thick outline. The articles included information on Louise Braille, Nobel Prize, Youth games, International Yog Day, Dadasaheb Phalke, C.V. Joshi, S. D. Phadnis etc. He mentioned that a lady wanted to buy (and not take them free as Dr. Chiplonkar offered) such printed braille literature for gifting it to her daughter’s friends who were visually impaired. This made him consider printing these books at nominal cost, without any profit. He also presented these books, picture books, maps, greeting cards etc. These were available on the Dias for audience to get a feel of it. Dr. Chiplonkar mentioned that he took feedback from students and teachers in blind schools which were quite encouraging. Then he showed clips of how a blind person can “read” a picture by touch! Ms Rina Patil, a visually impaired bank employee, who attended this presentation, shared her feelings and excitement of reading the printed books and pictures. More information is available on his website www.shubhamkaroti.braille.co.in This was followed by Q & A session. Audience appreciated meticulous work done by Dr. Chiplonkar and tried to take a feel of the books kept on the Dias. Er. Rajendrakumar Saraf proposed vote of thanks.



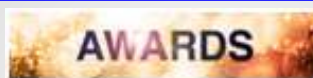
Popular Lecture series Braille Printing by Dr. Jayant Chiplonkar on 21st February 2017

30th May 2017 – NGO Round Table Discussion on Protection & Preservation of Water Resources.

Mrs Ketki Desai presented the working of Jivit Nadi NGO working for restoration of Mula & Mutha Nadi; Mr. Subhash Deshapande from Indian Plumbing Association spoke about the need of technical expertise for the task. Er. Sudarshan Tandale took review of Preservation and protection of Pawana River. Er Kelkar and Er Kshirsagar presented their views on the subject. It is decided to organize the Programs throughout the year. Mrs Deshpande recommended organizing the program on the bank of river to create awareness amongst all the stake holders on the river. It is decided to organize a conference in December 2017. Er Saraf summarized the discussion and said that we have made beginning and soon we will start our action plan. He requested all to prepare Mission, Vision & Action Plan. Er Mallikarjun Bugade Co-convenor proposed vote of thanks.

Students Chapter of IEI

Current biggest activity is examination. On behalf of all corporate members I wish them a grand success in the examination.



Every year Pune Local Centre recognizes the outstanding contribution in the field of Engineering by giving these prestigious awards. Woman entrepreneur, Excellence in structural engineering, DSK energy awards & a special prize is for Mr. and Ms. Engineer. The details are given on the Website www.ieipune.org. Please send Nomination along with brief bio-data, photograph and a statement describing the outstanding work done by the nominee. The nomination should reach to centre on or before 25th July 2017

CALL FOR PAPER

Coal India (J G Kumaramangalam Memorial) Award 2017

In order to perpetuate the memory of Late J G Kumaramangalam – the first Chairman of Coal India Ltd - Coal India instituted a prize in 1990 to be awarded annually during the Indian Engineering Congress. Original contributions are invited for consideration of the subject award from prospective authors on the following Topic :

‘Safety Culture Promotional Strategy for Large Coal Mining Company – Indian Perspective’

Sail Award And Dr M Visvesvaraya Award 2017

To mark the Golden Jubilee of The Institution of Engineers (India) in 1970, the erstwhile Hindustan Steel Ltd, now Steel Authority of India Ltd (SAIL) instituted the following two medals to be awarded each year during the Indian Engineering Congress. Original contributions are invited for consideration of the subject awards from prospective author(s) on the following topics:

SAIL Award 2017 - 'Growth of India's Steel Sector Amidst Global Overcapacity: Challenges for 300 MT Steel Vision ‘

Dr M Visvesvaraya Award 2017 - 'Sustainability of Steel in the Transition to a Low Carbon Economy'

Four copies of the manuscript along with a soft copy in CD, complete in all respects, and conforming to the "Guidelines" for submission of technical papers (for Guidelines, visit www.ieindia.org/jourtechdwnlds.aspx) should be submitted to The Director (Technical), The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700020. The last date for submission of paper is July 31, 2017.

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

He delivered an Invited Lecture entitled "Space Technology Towards Mankind / Societal Applications. A Mega Accomplishment for ISRO on May 13, 2017 at the Bharati Vigyan Sammellan organized by Vigyan Bharati in Pune. (Source Mail from Er. A. K. Sinha)

GLIMPSES OF PROGRAMMES HELD IN JUNE 2017



The World Telecommunication and Information Society Day (WTISD) on 17th May 2017.
Dr. G. S. Mundada delivered Welcome speech



The World Telecommunication and Information Society Day (WTISD) on 17th May 2017



Bhopal Gas Tragedy--the Inside Story
On 11th May 2017 By Mr. Deelip Paranjpye



BHOPAL GAS TRAGEDY--THE INSIDE STORY on 11th May 2017
Mr. Deelip Paranjpye, Convenor Er. Vikas Apte & Chairman Dr. Girish Mundada



Nano- bio material and its application 15th May 2017 by
Dr. Jyutika Rajwade Scientist Agharkar Research Institute
– Convenor Dr. Deshpande introducing the guest.



Nano- bio material and its application 15th May 2017 by
Dr. Jyutika Rajwade Scientist Agharkar Research Institute

ENGINEERS IN THE NEWS



30th May 2017 – NGO Round Table Discussion on Protection & Preservation of Water Resources



Er. Rujuta Desai delivered lecture on Career after Diploma Engineering & Admission Process at Sakal Vidya Education expo held in Auto-cluster Chinchwad 27 May 2017



Er. R. V. Saraf delivered Lecture on Reduction of Water Demand from 135 to 90 LPCD in Municipalika on 19th May 2017 held in CIDCO Exhibition Centre Navi Mumbai



Er. R. C. Mahulkar delivering the Lecture in Workshop on Holistic Management Temple Catering to Floating Population



Dr Ms. Suhasini Madhekar, FIE, Associate Professor of Applied Mechanics in College of Engineering Pune. Her book titled ' Seismic Design of R.C. Buildings-Theory and Practice' (Series- Springer Transactions in Civil and Environmental Engineering) published in 2016 has won the prestigious award for the best book by Association of Consulting Civil Engineers, India. The award function was held recently in Hyderabad. Congratulations. The brief of the book will be given in next issue. (Source – Mail from Er. Veena Gore



The Institution of Engineers (India), Solapur Local Center & SVRI's College of Engineering, Pandharpur conducted a unique Workshop on "Holistic Management Temple Catering to Floating Population" on 20th May 2017 in SVRI College. The Workshop was inaugurated by Er. Rajendrakumar V Saraf Patron for workshop, Dr. Ronge Chairman of Solapur Centre and other dignitaries. Er Saraf has given the Theme address.

FORTHCOMING PROGRAMMES

Date & Time & Venue	Program Details	Convenor
5 th June 2017 Monday 6.30 PM. Ganesh Sabhagruh, Off Karve Road	Celebration of World Environment Day in Association with Indian Water Works Association and Maharashtra Jeevan Pradhikaran Theme Connect with nature Speaker Dr. Mahesh Shindikar. - Bio-Diversity Mr. Jayant Deshpande. Wildlife in the Monson	Er. R. V. Saraf Er. D. B. Pans e
8th June 2017 Thursday Time 6.30 PM	Women Engineers Cell Lecture on Gateway to Create Wealth--An Introduction to Patents by Dr. Bharati Dole She will give broad idea about IPR and speak specifically about technicality of patents in her lecture. The lecture will be useful to young engineers, women engineers and all entrepreneurs	Er. Veena Gore
18 th June Sunday	Connecting People to Nature", the theme for World Environment Day 2017. It will celebrated by mingling with nature and understanding it by the expert from Botany, Zoology and Geology. Bus will start from PLC at 6.30 AM and will return by 4.00 PM. The subsidized registration fee is Rs. 300 (Inclusive of travel, breakfast and lunch. Please register yourself at PLC office by sending mail with registration fee. The tour will start only after the registration of 30 persons.	Er. R. V. Saraf Er. A. B. More Shri Vinay R R
20 th June 17 Tuesday, at 6.15.p.m.	Follow up program of Celebration of World Environment Day at IEI PLC along with Marathi Vidnyan Parishad & SEERAM. Theme Reconnect Nature. Lecture by Mr Bhalerao on Data Analysis for River and Lake Restoration Projects. Followed by Film on Wild Life	Er. R. V. Saraf Er. S. V. Tandale
27 th June 2107 5.30 PM	Meeting on Protection of Water Resources	S. V. Tanadle Er. Mallikarjun Bugade. Er. R. V. Saraf
6 th , 13 th , 20 th 27 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. Pl ease get involve and be a part of Group & Forum	S. V. Tanadle Er. A. H. Kelkar. Er. R. V. Saraf

Other Events / Activities.

- 1) Vidyut Suraksha Manch – Every Second Saturday – 6.30 pm. at PLC
- 2) Infrastructure interaction – Every Fourth Tuesday 5.30 pm.



Two mixing chambers are working in a factory;
one says to the other "You are so efficient! How do you do it?"
The other mixer turns to him and says "I don't know, I'm baffled."