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NEWSLETTER

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## The Institution of Engineers (India)

98 YEARS OF RELENTLESS JOURNEY TOWARDS ENGINEERING ADVANCEMENT FOR NATION BUILDING"

Dr. Girish Mundada, FIE, Chairman

Er. Araddhana A Deshmukh, AMIE, Hon. Secretary

PUNE LOCAL CENTRE

Prof. K K Ghosh, Editor

### World Water Day Celebration

The Institution of Engineers (India), Pune Local Centre along with Central Water & Power Research Station, Pune, Maharashtra Jeevan Pradhikarn, Pune, Indian Water Works Association, Pune, Marathi Vidnyan Parishad, Pune Vibhag & Society for Environmental Education Research & Management, Pune celebrated World Water Day, on 22 March 2018. Program began with Kalash Pujan by Dr. Girish Mundada Chairman IEI PLC, Prof. Vinay R R, President of Marthi Vidnyan Parishad, Dr. Mrs. V V Bhosekar, Director CWPRS, Mrs. Jyotsna Saraf, Joint Secretary Indian Water Works Association, Dr. Mangesh Kashyap of Seeram & Er. Rajendra kumar R Saraf Convener. After recital of prayer for God Varun, Dr. Mundada welcome the dignitaries and the audience. He highlighted the activities of IEI PLC. Er. Saraf said that this year's theme, 'Nature for Water', explores nature-based solutions to the water challenges we face in the 21st century. Environmental damage, together with climate change, is driving the water-related crises we see around the world. Floods, drought and water pollution are all made worse by degraded vegetation, soil, rivers and lakes. When we neglect our ecosystems, we make it harder to provide everyone

### Diamond Jubilee Activity

The Institution of Engineers (India), Pune Local had organized two lectures on 12<sup>th</sup> Apr and 13<sup>th</sup> April, 2018 as a part of Diamond Jubilee Celebration. Er. Arun Chhatre, former Executive Director (Engineering Reactor) at Nuclear Power Corporation of India Limited was the resource person. Er Chhatre delivered lecture on following topics:--

- i) Site specific Earthquake Ground Motion Generation and
- ii) Experience based Seismic Design of Industrial Plant Equipment

During the first Lecture, Shri Chhatre said that, as per Bureau of Indian Standard, IS 1893 Part IV, 2011, one is required to design a chemical plant handling hazardous chemical for earthquake loading for a Site Specific Earthquake Ground Motion. Shri Chhatre explained to the participants, how the earthquakes are caused and how the strain energy released during the earthquake reaches a given location on the ground as seismic waves and how to generate a synthetic earthquake ground motion, which can be used for the earthquake resistance design of an industrial structure and plant equipment.



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with the clean water we need to survive and thrive. We need to do so much more with 'green' infrastructure and harmonize it with 'grey' infrastructure wherever possible. Planting new forests, reconnecting rivers to floodplains, and restoring wetlands will rebalance the water cycle and improve human health and livelihoods. The engineers, Scientist, social workers, administrator and the people have to come together to find the answer to the solution from nature. He has given the examples of Wetland treatment as the answer found from nature. A Short play on Save Water was presented by the students of Department of Technology, Savitribai Phule University of Pune. Mr. Dhairyashil Bhonsale & Digvijay Aher, students from Department of Technology made presentation on behalf of youth. Mr. Pate Treasurer General of Indian Water Works Association declared that Youth forum of IWWA at D Y Patil College is officially opened. Students from Youth forum displayed their Poster in Exhibition at Kale Hall. Dr. Bhosekar took review of various activities being carried out at CWPRS. She said that CWPRS put the best efforts to protect and preserve our natural resources. There is need to learn the natural system & find the application for Water management. Dr. Anshul Gujrathi from Eco solutions explained the Green and Gray Infrastructure. She said that reduction of resource consumption, the optimum use of Panchmahabhut and the natural resources make the Infrastructure green. She further said that green & Gray infrastructure is the solution found from Nature. Dr. Kashyap initiated the Panel Discussion as coordinator. He said the Green Economy is one of the solutions for sustainable development. Both the experts answer the questions raised by the coordinator & audience. It was unanimously agreed that the theme shall be considered throughout the year to find the answer from nature. Thus audience actively interacted to make the road map for implementation of Theme. Miss Mrinali read the Pledge which is followed by the audience. Miss Riyanka Shinde, Mrs Pooja & Miss Mrinali compered the program. The program was attended by more than 100 participants.

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In the second lecture, Shri Chhatre said that at the most we talk about the seismic design of industrial structures, but never talk about the seismic design and construction of industrial plant equipment, especially those forming the pressure boundary of the hazardous chemicals, as in case the pressure boundary leaks resulted in Bhopal gas like tragedy.

Shri Chhatre presented the damages experienced by industrial plant equipment viz. pumps, piping, ducting, cable trays, storage tanks, fall ceilings, transformers, control panels, lighting fixtures at the industries in Gujarat during Bhuj earthquake of 26<sup>th</sup> Jan 2001 and similar damages to plant equipment in industries all around the world. He also presented ways and means to avoid these failures.

Shri Chhatre said that Pune, Satara, Karad, being close to Koyna, one of the earthquake prone areas of the country, it is essential that existing chemical industries in the area are studied, as a minimum by a method, called as walk down of the plant equipment, and if deficient, retrofitted and new industrial plants which are coming up are designed and constructed for seismic loading.

Engineers from the industries, Design Consultants and Technical Institutes participated in the lectures, and indicated that the lectures were an eye opener for them and will be interested to implement many of the schemes explained in the lectures to make the chemical plants safe during earthquake. Officers from District Disaster Management Authority of Pune also participated in lectures. Dr. Girish Mundada, Chairman, Prof. Araddhana Deshmukh, Hon. Secretary, Prof. Rujuta Desai, Convener, Er. V.N. Shinde Co-convener of Pune Local Centre also participated in the Lecture Series.



## WORLD TELECOMMUNICATION AND INFORMATION SOCIETY DAY:

**The** World Telecommunication and Information Society Day (WTISD) was celebrated jointly by The Institution of Engineers (India), Pune Local Centre, Institute of Electrical and Electronics Engineers (IEEE), Pune Section, Institution of Electronics and Telecommunication Engineers (IETE), Pune Centre and Institution of Engineering & Technology (IET), Pune Network, on Thursday 17 May 2018 at Firodiya Auditorium of The Institution of Engineers (India), Pune Local Centre.

The ICT theme for the year was "**Enabling the Positive Use of Artificial Intelligence for All**". The theme speaker and Guest of Honor was Dr. Harrick M. Vin, Global Head, Digitate, TCS. The lecture was delivered based on experience & experimentation through his career journey as a Professor at University of Texas, USA & at TCS while working upon the digital transformation of the technology. Dr. Harrick who has over 50 Patents, Several Publications and Editor/ Evaluator of many prestigious journals, elaborated as how augmentation in technology is making machines intelligent. He elaborated many applications including Driverless Car, Customer tracking at mall, memory capability of devices and how these all are developed in customized way based on local conditions. The impact of the development could be debatable, as it may have negative occurrence, but going forward with positives that it brings we need to find solutions further. He did mention that do not expect machine to be smarter but the one who develops it. The 45 minute lecture sparked so much of enthusiasm among audience that session was further extended by 15 minutes. The PG students, research scholars, faculty & members of professional organizations formed the diversified pool of audience, with a sole purpose to hear Dr. Harrick Vin, who is known globally for his work. He expressed that in education, PCM & PCB should not be isolated as Biology & Mathematics are the fundamental aspects to many many developments and knowing both certainly gives an edge. The task of analyzing data through artificial intelligence and machine learning techniques, with domain knowledge, will be the key to the development.

The Chief Guest on the occasion was Er. Prashant Girbane, Director, Pune International Centre & Director General Designate at MCCIA, Pune. He gave background of the growth of telecommunications in our country and outlined the role Electronic Cluster Foundation, which he currently looks after at MCCIA, in this era 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. He appreciated the collaboration of 4 organizations, IEI, IETE, IEEE & IET of Pune region for the Celebration of World Telecommunication and Information Society Day. He did mention that he worked at TCS earlier & knows work of Dr. Harrick Vin, would travel anywhere to hear him and complimented Dr. Vin for his informative and encouraging lecture on the theme.

The Firodia auditorium of Institution of Engineers, Pune Local Centre was occupied with the audience comprising of office bearers, members, students and invitees from the participating institutions. Initially **Prof.(Dr.) G. S. Mundada**, Convener of the event & also Chairman of IEI-PLC, welcomed the gathering, mentioned the need of coming together for alike technical societies and move forward with interdisciplinary approach . He spoke about IEI and also briefed the activities at PLC. Vice-chairman IEEE, Pune Section, Er. Girish Khilari briefed about the activities of IEEE, Chairman IETE, Pune Centre, Er. G.K. Dawara talked about the activities of IETE, Prof. Dr. M. A. Joshi, Chair IET, Pune Network, narrated the activities of IET through PPT.

Prof. V.B. Vajapurkar introduced the theme "Enabling the Positive Use of AI for All" to the house. The Curricular Vitae (CV) of Guest of Honor & Theme Speaker, Dr. Vin was read by Dr. Rajashree Jain, Secretary, IEEE Pune Section while for Chief Guest the CV was read by Er. K. R. Shende, Secretary, IETE Pune Centre. The Chief Guest was felicitated, with a sapling & memento, by Prof. Dr. G.S. Mundada and Er. G.K. Dawara whereas the Guest of Honor by Prof. Dr. M. A. Joshi and Er. Girish Khilari.

The program has Question Answer Session, whereupon audience got an opportunity to get their questions answered by the guests and also had an opportunity to interact with the experts. The session received a very good response as it has set the open house for all.

In absence of IEI PLC Hon. Secretary Prof. A. A. Deshmukh, the vote of thank was proposed by IEEE Member Er. Jagdish Chaudhari. High tea at the end of the program further added to the networking of the enthusiastic participants with the guests. The program thereafter concluded with opening of opportunities and satisfaction of attending the good program for the budding engineers.

## Workshop on Skill Development

The Institution of Engineers (India) Pune Local Centre, in its Diamond Jubilee Year, celebrated World Women's Day 2018 by organizing one day workshop on "Skill Development" on 10<sup>th</sup> March 2018. It was inaugurated by Dr. D. J. Doke, past Chairman IEI-PLC and Er. Vasant Shinde past Hon Secretary, IEI-PLC.

During the workshop, four expert lectures on "Skills Development" were delivered.

Major Sonali Kadam, Director, Symbiosis Skill and Vocational Guidance, explained "National Policy on Skill Development". Further she gave an overview of the Symbiosis and how they are trying to bridge the gaps between skills required by institutions/ industries and skills acquired by students while studying in universities/ colleges.

Er Udayan Kanade, Oneirix Labs, deliberated on "Building a highly Skilled Technology Organization". Taking example of his own organization, he said it is not enough to have multidisciplinary approach to skilling but it should be trans-disciplinary, i.e. without boundaries between the disciplines. He talked about four golden rules in the process of building the organization like Get the best people, Give them challenging and diverse work, Support them and Create a culture of learning. He substantiated these by giving examples from his organization which is doing exemplary work in the field of Engineering Solutions.

Ms Soma Chattopadhyay presented "Recipe for Entrepreneurship". She briefed about the activities of "Venture Centre". Venture Centre is National Implementation partner for Startup India programs of MoST, DST, Nidhi Centre of excellence. According to her Entrepreneurship is art of converting resources into products or services by value addition.

She elaborated various skills required for this value addition like Technical Skills, Creative Skills, Personal Skills and Interpersonal Skills etc

Er Devika Ghaisas, Director System Software, NVIDIA spoke about building a generic cloud. She first explained architecture of cloud with a typical cloud stack. This was followed by Client Server link and layers. Then she highlighted services which use day in and out operating on clouds. With this background she listed out the skill set required to build a cloud.

After these presentation, "skill based" case studies of projects were presented by Yashaswi and Swayam Team members of COEP. "Swayam team" presented the process of building a satellite involving number of students from different engg discipline. Ms Soniya Malwadkar and Ms Shweta Pable gave an account of problems faced, solutions sought and learning by students. Yashaswi was represented by Ms Smita Dhumal. She presented affiliation of Yashaswi with NSDC and NEEM schemes and efforts taken by Yashaswi for employability of students including drop outs by sharpening their skills.

Er. S. P. Ranade Retd.M.D., MITCON shared his experiences and presented skill training given by him for replacement of Refrigeration gas and Solar panel maintenance.

Dr Doke felicitated all the speakers. Er Shubhangi Chiplonkar and Er Rujuta Desai convened the program. Er Veena Gore proposed Vote of Thanks.



## Installation of New Managing Committee IE (I) Students' Chapter

The installation ceremony of new Managing Committee of IE (I) Student Chapter of The Department of Mechanical Engineering of Marathwada Mitra Mandal's College of Engineering(MMCOE) was organized on 22<sup>nd</sup> March 2018. Prof.K.K.Ghosh, FIE, Past Hon Secretary and Committee member of IEI Pune local Centre graced the occasion as Chief Guest.

At the outset, Dr.P.S Purandare, Head, Mechanical Department, MMCOE welcomed the guests and participants for the program and briefed about the departmental activities and achievements.

Dr. S. M Deshapande, Principal, MMCOE expressed their views on the importance of participation of students in growth of nation and role of engineers in conservation of water. Prof. P.K. Katare, Faculty Advisor, declared the names of Executive Committee Members of IE (I) Students' Chapter (Mechanical) for the Academic year 2017-2018 and discussed about activities scheduled in IE(I) students' chapter. All the outgoing and new committee members were felicitated by Prof Ghosh.

Prof .Ghosh, shared his views on type of technical activities which should be carried out by IE(I) Student chapter for the benefit of society and students community. He also shared the thoughts on necessity of skill in budding engineers and invited all student members for visit to IE(I) Pune Local Centre.

A video clip on the occasion of World Water Day was shown to participants which conveys important message of conservation of Water.

Mr.Bhaskar Kolhe, Convener of students' chapter IE(I) presented the vote of thanks at the end of installation ceremony.

# The Institution of Engineers (India)

Pune Local Centre

Notice

FOR COMMITTEE ELECTION

For the Sessions 2018-19 & 2019-20

To,  
All Corporate Members  
Attached to Pune Local Centre

Be it known that the members of the Committee of Pune Local Centre of The Institution of Engineers (India) shall retire at the ensuing Annual General Meeting of the said Pune Local Centre. It has become necessary for the Corporate Members on the Roll as on 31/03/2018 attached to the Pune Local Centre and the various Divisions duly established to elect from amongst themselves Corporate Members to the Committee for the session 2018-19 & 2019-20 to fill the vacancies in each Division as follows:

Aerospace Engg Division	01	Environmental Engg Division	01
Agriculture Engg Division	01	Marine Engg Division	01
Architectural Engg Division	01	Mechanical Engg Division	03
Chemical Engg Division	01	Metallurgical & Materials Engg Division	01
Civil Engg Division	03	Mining Engg Division	01
Computer Engg Division	01	Production Engg Division	01
Electrical Engg Division	02	Textile Engg Division	01
Elect. & Telecom Engg Division	01		

I, On behalf of the Board of scrutineers duly constituted by the Committee of The Pune Local Centre. Call upon you to propose name(s) of Corporate Members from the same Division and submit your proposals to the Convener, Board of scrutineers, at the office of the IEI Pune Local Centre, Abhiyanta Bhavan, 1332, Shivajinagar, JM Road, Pune-411 005.

The proposal, to be valid, must contain the names, membership grades and numbers of both proposer and the proposed Corporate Member together with the written consent of the proposed Corporate Member to serve on the Council/Committee, if elected. The proposer shall also submit, an acceptable proof of his identity, viz PAN Card or Driving License or Photo ID Card issued by State/Central Government bearing his signature or first page of his passport duly self attested. The format of the nomination is enclosed.

Members retiring from the Committee after completion of three full tenure at a stretch shall not be eligible for re-election. However, they shall be eligible for re-election after a break of one term.

As decided by the Council at its 691<sup>st</sup> Meeting held on 24-25 Sep 2016 at Haridwar, candidates desiring to contest in the elections of the IEI shall deposit Rs.3,000/- as non-refundable earnest money by demand draft drawn in favour of "The Institution of Engineers (India), payable at Kolkata"

-sd

Prakash Patil

Convener

Board of scrutineers

For Election to the Committee of Pune Local Centre

For the session 2018-19 & 2019-20

Date: 30/05/2018

\*NOTE:- Refer to website [www.ieipune.org](http://www.ieipune.org) for format of Nomination form.



## FORTHCOMING PROGRAMMES

Date & Time	Day	Programme Details	Convenor /Coordinator
17 <sup>th</sup> May 18	Thursday	Celebration of World Telecommunication & Information Society Day Theme : Enabling the Positive use of Artificial Intelligence for all.	Dr. G S Mundada
05 <sup>th</sup> June 18	Tuesday	Celebration of World Environment Day	Er R V Saraf
11 <sup>th</sup> June 18	Monday	Celebration of Industries Day	Prof A A Deshmukh Dr. P M Deshpande
28-29 Sep 18	Friday & Saturday	National Convention of Civil Engineers and National Seminar on "Innovative Trends in Civil Engineering for Sustainable Development"	Dr (Mrs). Sushma Kulkarni

### GLIMPSES OF WORLD TELECOMMUNICATION & INFORMATION SOCIETY DAY



### OBITUARY

With deep sense of loss, we share the sad news that one of the active member of this centre, Air Cmdr Avinash Valavade FIE (Aerospace Engg Div) passed away on 09 April 2018. He had worked as Managing Committee member of Pune local Centre as well as Maharashtra State Centre.

May Almighty keep the departed soul in eternal peace.

Managing Committee of IEI PLC prays to the almighty to give family members and friends the strength to bear this great loss.