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98 YEARS OF RELENTLESS JOURNEY TOWARDS ENGINEERING ADVANCEMENTS FOR NATION BUILDING

Dr. Girish Mundada, FIE, Chairman

Er. Nighojkar Avinash K, MIE, Hon. Secretary

PUNE LOCAL CENTRE

Prof. K K Ghosh, Editor

59th FOUNDATION DAY

Pune Local Centre celebrated its 59th Foundation Day on 30th November 2017. Er. Bharat Rajkumar Agarwal, President, Vishwakarma University, Pune graced the occasion as Chief Guest while Wg. Cdr. Shalak Gandhi (retd), Deputy Director General, Maharashtra Chamber of Commerce, Industries & Agriculture (MCCIA), Pune, was the speaker for 10th Golden Jubilee Memorial Lecture.

At the outset, Dr. Girish Mundada, Chairman Pune Local Centre welcomed the guest and audience and took a brief review of development of Pune Local Centre, its activities highlighting contributions of the past office bearers.

Prof K K Ghosh introduced the Chief Guest and Prof. Ms. Aaradhana Deshmukh gave the introduction of Wg Cdr (retd) Shalak Gandhi. Dr. Girish Mundada felicitated both the Guest.

Wg. Cdr. Shalak Gandhi delivered the 10th Golden Jubilee Memorial

Lecture on the topic "Micro-Small and Medium Enterprises (MSMEs) and their Role in India". He presented the status of MSMEs and their critical role in the economy by providing employment to a large number of unskilled and semi-skilled people, contributing to exports, raising manufacturing sector production and extending support to bigger industries by supplying raw material, basic goods, finished parts and components, etc. He also briefed about MCCIA, Pune and its contribution towards promotion of R&D activities in around Pune region.

Er. Bharat Agarwal in his address stressed upon the importance of interdisciplinary engineering and urged budding engineers to learn new skills for becoming good engineering professional. He also emphasized the need of digital content and urged IEI to take initiative and play a major role in development of for E-content.

Dr. Y.P. Nerkar presented the

detailed report of Annual Technical Paper Meet held on 7th & 8th October 2017. The 40th Annual Technical Journal was released by the Chief Guest and other Dignitaries on this occasion. Dr Nerkar also announced the winners of Best Paper Award in various Engg Divisions of Annual Technical Paper Meet. Er Vijay Ghogare et al. (Civil Engg), Er Vishnu Bankar (Mech Engg), Er Urmila S Patil et al. (E&TC and Computer Engg) and Anupama Singh et al. (Electrical Engg), received the Best paper award.

During the function various Annual Prizes were also given at the hands of Guest. Dr. Girish Mundada felicitated past Chairmen and Hon. Secretaries of the Centre. Prof Ghosh proposed the vote of thanks. Programme was attended by Corporate members, faculty members and Students of various Engg Colleges and Engg professionals from industries.

Prof. K K Ghosh and Prof (Ms) Aaradhana Deshmukh were the Conveners of the programme.



Wg Cdr Shalak Gandhi Delivering the 10th Golden Jubilee Memorial Lecture



Release of Annual Technical Journal during 59th Foundation Day



Er Bharat Agrawal Addressing the gathering during 59th Foundation Day

Workshop on “Salient Features of New Seismic Codes IS 1893 and IS 13920-2016”

An All India Workshop on “Salient Features of New Seismic Codes IS 1893 and IS 13920-2016” was organized by the Centre at Rajarambapu Institute of Technology, Rajaramnagar during 03-04 Nov. 2017. Dr. R.K. Ingle, VNIT Nagpur graced the occasion as Chief Guest and Dr. O. R. Jaiswal, from VNIT, Nagpur was Guest of Honor.

The workshop was inaugurated by Dr. R.K. Ingle. In his address, he suggested to follow the current codal provisions immediately in construction practice. Dr. O. R. Jaiswal also spoke on the occasion. Er Veena Gore, Committee Member, Civil Div. presided over the inaugural session. While speaking on the occasion, Mrs. Veena Gore shared the functioning of the Centre and conveyed best wishes to the host Centre. Dr. P.S. Patil, Coordinator of this workshop, welcomed the august gathering and briefed about the workshop and provided the gathering with a virtual feel of the two-day event. Dr. Mrs. Sushma S. Kulkarni, Convenor & Director of RIT Rajaramnagar, welcomed the participants and shared best practices at RIT. Dr. P.D. Kumbhar, Coordinator & Head Department of Civil Engineering introduced about department of civil engineering. Prof. A.S. Thorbole proposed vote of thanks.

During the workshop, six technical sessions were conducted. In First technical session, Dr. O.R. Jaiswal, VNIT Nagpur delivered the key note address on 'Provisions of IS 1893 of 2016'. In his presentation, he gave the overview of Earthquake engineering and revised earthquake zone and discussed load combinations to be considered while designing structures.

In Second Technical Session, Dr. R. K. Ingle, Professor, VNIT Nagpur presented 'Provisions of IS 13920 of 2016', He elaborated ductile detailing of connections/structural members and shear walls. He also explained minimum member sizes to be considered in structural design.

In third Session, a panel discussion on 'Salient Features of New Seismic Codes IS 1893 and IS 13920-2016' was conducted. The members of discussion panel were Dr. O.R. Jaiswal, Dr. R.K. Ingle, Dr. Y.M. Ghugal and Dr. P.S. Patil. Participants participated in the panel discussion by raising their queries related to their research areas.

Dr. Rajan Wankhede, Associate Professor GCE Nagpur conducted the Fourth technical session on 'Important Provisions of Revised Seismic Codes IS 1893 & IS 13920 and Base Isolation Techniques'. He focused on provisions of old and new seismic codes.

In Fifth technical Session, Dr. Mural Praneesh, Head, Dept. of Applied Mechanics GCE Aurangabad, talked about 'Seismic Retrofitting and Strengthening of Structures'. He elaborated various techniques of Seismic Retrofitting and Strengthening of Structures.

Sixth technical Session was addressed by Dr. P.S. Patil, HOP Structural Engineering, RIT, Rajaramnagar, on 'Comparison of Lateral Loads Using Old and New IS Codes 1893 and 13920-2016'. He illustrated modifications made in IS Codes 1893 and 13920-2016 by solving numerical using both revisions. This helped participant especially, students to understand changes and practical application of these IS Codes.

Workshop concluded with valedictory function in presence of Chief Guest Dr. Mural Praneesh and Guest of Honour Dr. Y.M. Ghugal. The participants appreciated the efforts taken for organizing such workshop and demanded that similar workshops should be organized under the aegis of IEI in association with RIT in near future. Participation Certificates were given to all the participants at the hands of Chief Guest. Prof. Mrs. S. N. Patil proposed the Vote of thanks.



Dr. R.K. Ingle delivering opening address during Workshop

Report : **FOURTH B. G. WALIMBE MEMORIAL LECTURE**

The fourth B. G. Walimbe Memorial Lecture programme was organised at the Firodiya Auditorium, on Saturday 4th November 2017 at 6.30 pm. Er. Chetan Pandit former Member (WP & P) CWC was the Chief Guest and Er. Pradeep Purandare former Professor WALMI Aurangabad was the Key Note Speaker. Dr. G. S. Mundada Chairman presided over the function. The Theme of the lecture was "Water Management, Governance and Regulation in Maharashtra State."

The programme started with paying floral tributes to late B. G. Walimbe by the dignitaries on the dais. Thereafter Er. R. B. Walimbe informed the audience about the three lectures organised till date, as well as about the brief life sketch of B. G. Walimbe. Dr. G. S. Mundada Chairman welcomed the Chief Guest and the Key Note Speaker and spoke about the activities of The Institution of Engineers as well as about the achievements of Pune Local Centre.

In his Key Note address, Er. Purandare informed the status of Water Management in Maharashtra State, which comprises of 3679 no. of projects, 50 lakh hectare of irrigation potential and 34000MCuM of Water Use. He emphasized on adequate and timely Maintenance & Repairs and the need for motorised HR & CR gates. He also said that there could be a big business opportunity for industrial production of HR and CR gates, measuring devices, water meters automatic data collection etc. Regarding Water governance, Er. Purandare said that there are nine irrigation related acts in force in the State. However non implementation of the Water Laws has weakened the present institutional & Legal arrangement in the State. He pointed out that barring the exception of MMISF Act, none of the other Acts have Rules. He further added that the area and water use under lift irrigation schemes is increasing at an alarming rate. Lift irrigation schemes are virtually unregulated, because the necessary notifications under MIA and MMISF Acts have not been issued till date. On the Regulatory side, Er. Purandare said even though the State took lead in establishing, MWRRA (Maharashtra Water Resources Regulatory Authority), in the absence of Rules it has not fulfilled its due role like preparing entitlement data base, water to drought prone areas, preservation of water quality etc.

Er. Chetan Pandit said that while he was working with Policy Planning wing in the Ministry of Water Resources, several new concepts were introduced like Water Sector Reforms, establishing independent Water Regulatory Authority, Public Private Partnership, Benchmarking, Water Audit etc. However over period of time the new ideas like benchmarking of water resources projects could not hold its ground and disappeared. He said we had enough discussions on various issues in Water Management and now it is the time to implement the policies with a strong leadership. He narrated the example of Bhakra Beas Management Board (BBMB) working under the leadership of a serving Major General of Army. He further added that we have to find new innovative and out of box solutions for Water Management problems. To illustrate his point, he gave example of Murray Darling Basin in Australia where the government purchased water from farmers to be released in the river for maintaining minimum environmental flows.

The function concluded with a Vote of Thanks by the Convenor Er. V. N. Shinde. The function had a participation of more than 80 persons including senior officers from State and Central departments, Consultants, NGOs, and Students.



Er Purandare delivering the Walimbe Memorial Lecture

Round Table Discussion on “InterBasin and IntraBasin Transfer of Water”

A Special Meeting was convened on Saturday 4th November 2017 as a precursor to the 4th B. G. Walimbe Memorial Lecture. The meeting of experts, by invitation, was called to discuss the "InterBasin and IntraBasin Transfer of Water". The Chief Guest of the function Er. Chetan Pandit and the Key Note Speaker participated in the meeting along with Er. V. M. Ranade former Secretary, Er. D. N. More, former Secretary, Dr. R. K. Suryavanshi Professor Emeritus COEP, Er. R. B. Walimbe CE (Retd.) CWC. Dr. Sinha from ISRO and Convenor Er. V. N. Shinde.

While initiating the discussions Er. Ranade said that it is necessary to appreciate the necessity of Inter Basin transfer of Water/Inter linking of Rivers (ILR) scheme. Whether any alternatives exist for ILR and thirdly what are the benefits to Maharashtra State? He further said that the State of Maharashtra needs to be given additional water allocation in Krishna Basin, as well as increased allocation of diversion from Koyana reservoir to generate hydropower. The cost for utilization of additional water allocation should also be borne by the Central Government. Er. Chetan Pandit informed that the scheme Inter Linking of Rivers as per National Perspective Plan had come up before the Supreme Court and the as per the directive of the Supreme Court of India, now the ILR scheme has to be implemented with obtaining all due statutory clearances like environmental clearance etc. It is not open for reinvestigation. For more than 30 years NWDA engineers have been working on the technical aspects. The feasibility reports would be available at NWDA web site and any queries can be raised at public hearing stage.

Dr. Suryavanshi said instead of diverting water to Gujarat by Par-Tapi-Narmada link, more water should be made available to Maharashtra State. He said fertile land in Tapi Basin is available in Jalgaon district where irrigation facilities should be provided. He further said that the limit of lifting water only upto 120 meters proposed in ILR should be removed since there would be enough power available to lift at more than 120 meters, particularly to drought prone areas instead of providing water to already irrigated areas with well developed infrastructure.

Er. Purandare said no states will agree to divert surplus water to another state. All the existing capacities of the projects have to be fully utilized. He also said that the ILR scheme needs to be reinvestigated and re-examined and he does not agree with the proposed ILR scheme as per the National Perspective Plan in its present form.

Er. Walimbe informed the meeting that while in NWDA in 1984-86 he had been pursuing a communication from NWDA to the state government whether they have any schemes for utilization of additional 4.5 MAF of water if made available under the National Perspective Plan. But there had been no response from the State Govt. Also he had learned that the tribal areas in Dang district had been opposing the Survey and investigation works of NWDA for Damanganga Pinjal link.

Dr. Sinha said that the Satellite imageries are now available with NRSA Hyderabad and these can be used in deciding the engineering structures, storages, alignments of link canals of ILR scheme.

Er. D. N. More said that lot of new ideas will come up in such deliberations. Before diverting water to another State all ultimate water demands of the State should be fulfilled and only surplus if any can be diverted to another State.

Er. Shinde Convenor of the meeting thanked all the participants for their valuable inputs and said that the Water Resources group will take up the matter for further deliberations

Please Mark your Diary to attend the following Programs

Date/ Day	Time	Subject	Convener
09/12/17 Saturday	1830 Hrs.	Lecture on "Mass Rapid Transit System" by Er. V B Gadgil & Dr. Brijesh Dixit as Chief Guest jointly with IIBE & ICI Pune.	Er. V N Shinde
15/12/17 Friday	1830 Hrs.	AMIE Introductory Meeting.	
26/12/17 Tuesday	1815 Hrs.	Lecture on "Tantrava idnyanik Lekhan" by Dr. Ingale jointly with MaViPa Pune.	Prof. R V Saraf Coordinator

Other Weekly Meetings

- 1.) Water Resource Group and Energy Resource group every Tuesday at 5:30 pm
- 2.) PCMC Extension Centre - Every 2nd Thursday at 5:30 pm
- 3.) Vidyut Suraksha Manch - Every 2nd Saturday at 6:30 pm at PLC
- 4.) Infrastructure Interaction - Every 4th Tuesday at 5:30 pm

CHAIRMAN, HON. SECRETARY, EDITOR & ALL COMMITTEE MEMBERS

WISH ALL CORPORATE MEMBERS, READERS & WELL WISHERS

A VERY HAPPY AND PROSPEROUS NEW YEAR