



GOA ENGINEERS NEWS

The Institution of Engineers (India)

AN ISO 9001 : 2008 CERTIFIED ORGANISATION
(Established 1920, Incorporated by Royal Charter 1935)

GOA STATE CENTRE

*"96 Years of Relentless Journey Towards
Engineering Advancement for Nation Building"*

ISSUE NO. 57

OCT. 2016

CHAIRMAN:

Er. Gurunath M. Naik Parrikar, FIE

HONORARY SECRETARY:

Er. Deepak A. Karmalkar, MIE

IMMEDIATE PAST CHAIRMAN:

Er. Gerard D'Mello, FIE

IMMEDIATE HON. SECRETARY:

Er. Yogesh Bhohe, MIE

ELECTED MEMBERS :

Er. Vaman M. Gaitonde, FIE
Er. Ashton Godinho, MIE
Er. Anwar Khan, MIE
Er. Ramkrishna D. Bhide, FIE
Er. Dilip Sahakari, MIE
Er. Balkrishna Chodankar, MIE
Er. Rajendra Hegde, FIE
Er. Komala Soares, MIE
Er. Datta Kare, MIE
Er. Ulhas G. Sawaiker, MIE
Er. C. G. Prabhudessai, MIE
Er. N. T. Prasad, MIE
Er. Abhay Bhamaikar, MIE
Er. Mahendra Kumar Jain, MIE

CO-OPTED MEMBER :

Er. Austin Rodrigues, AMIE



FROM CHAIRMAN'S DESK

Dear Members,
It is indeed a proud privilege for me to address you in this Bi-monthly Bulletin.

Friends, as you are aware, the Goa sub-centre of The Institution of Engineers (India) started on 27th September 1974 under the Chairmanship of Shri B.R.Naique, the then Chief Engineer of PWD, Goa, Daman & Diu.

In 1987, Goa Sub-centre was upgraded to Local Centre when the membership of the centre was around 200. AMIE examination started in Goa in 1988 for students appearing at the section A and section B Examination.

From January 1997, the Local centre started publishing Bulletin. This Bi-monthly Bulletin provides information to its members about various activities of the centre and also publishes technical articles of general interest.

From December 2008, Goa Local Centre was upgraded to **State Centre** when the membership of centre was around 800.

The State Centre celebrates Engineers' Day, every year. On this occasion, various technical activities are arranged. In the past years, various eminent Engineers have been felicitated. The activities of the State centre are on the rise. In the recent years several seminars, workshops and paper reading sessions have been organized. The State Centre has always encouraged the young technicians by involving them

in organizing various programs. Recently, Headquarter has approved conducting section B examination from December 2016.

During the recently concluded elections, new Managing Committee comprising of 18 Members have been elected with myself as Chairman and Er. Deepak A. Karmalkar as Hon. Secretary. The Past Chairman and Past Hon. Secretary shall continue to be part of this Managing Committee. I intend to co-opt a few Members to the vacant Divisions. This will strengthen the Managing Committee.

We celebrated 49th Engineers' Day on 17th September 2016. The new Managing Committee took over on 1st October 2016 and started the activities with a bang by organising the 32nd National Convention of Civil Engineers on 21st -22nd October 2016 on "**Role of Civil Engineering in Sustainable Development of India**". Hon. Governor Dr. (Smt.) Mridula Sinha was the Chief Guest at the Inaugural Session and Shri Sudin Dhavalikar, Hon. Minister for PWD, Govt. of Goa was the Chief Guest at the Valedictory session. The convention was attended by about 200 delegates. Shri H.C. S. Berry, President, IEI along with Shri Ashok Basa, Past President and Shri Narendrasingh, Chairman, CVDB also attended the National Convention and the meeting of Civil Engineering Division



Board held in Goa.

The Goa State Centre has completed 42 years of its existence in September 2016 with membership strength of 1194 Members. While expanding its activities and shouldering responsible roles,

Goa State Centre aspires to earn the status of the best centre with whole hearted support from ALL OF YOU.

Er. Gurunath M. Naik Parrikar, FIE



49TH ENGINEERS' DAY CELEBRATIONS



The Chief Guest Shri Ameya Abhyanker garlanding the portrait of Sir M. Visvesvaraya.



Mr. Suman Bose, Managing Director - Siemens Industrial Software Development giving keynote address.



Felicitation of Er. R.R. Shenoy, Past Chairman, IEI Goa State Centre, as Eminent Engineer from the state of Goa who has made significant contributions in the field of engineering.



Er. Thomas D'Costa reciting the life sketch of Sir M. Visvesvaraya.

The 49th Engineers' Day was celebrated by Goa State Centre on 17th of September 2016 at 'Abolim Hall' in International Centre Goa at Dona Paula. The dignitaries comprised of Mr. Ameya Abhyanker, Special Secretary to the Chief Minister as chief guest, and Mr. Suman Bose, Managing Director - Siemens Industrial Software Development as the keynote speaker.

The Engineers' Day celebrations began at 6:30 pm with a welcome by compere for the evening, Er. Deepak Shah, followed by the presentation of floral bouquets. Goa State Centre Chairman, Er. Gerard D'Mello welcomed the members, dignitaries and invited guests in his welcome address and also highlighted the significance of the Engineers' Day celebrated all over the country. The dignitaries then took part in lighting of the traditional lamp and garlanding the photograph of Sir M Visvesvaraya.

Er. Thomas D'Costa presented a life sketch of Sir M. Visvesvaraya which covered his entire life and achievements and also touched on the unique and innovative solutions he

devised to solve complex engineering problems. The keynote speaker, Mr. Suman Bose, then took the floor to cover the theme topic "Skill Development for Young Engineers to Reform the Core Sector: Vision 2025". He presented a thought provoking speech on this subject. He spoke about knowledge transfer and creating the right ladder for success.

Chief Guest, Shri Ameya Abhyanker while delivering address stressed on thrive for excellence with a lack of pride and ego but with lots of discipline. He said there are challenges for innovations and mentioned the importance of teachers and mentors. He also stressed the importance of hands on skill and physical work.

This was followed by the felicitation of two Eminent Engineers from the state of Goa who have made significant contributions to the field of engineering. Er. R.R. Shenoy and Er. M. Durairaj were honoured at the hands of the chief guest with memento and shawl while their respective achievements were read out by the compere.

Mementoes were then presented to the chief guest and the keynote speaker at the hands of chairman, Er. Gerard D'Mello. The chief guest also presented mementoes to all the managing committee conveners who had organized several technical

activities during the past one year.

Er. Yogesh Bhole proposed the vote of thanks. Er. Deepak Shah ably and wittily conducted the proceedings in his capacity as Comptroller for the evening.



National Convention: Role of Civil Engineering in Sustainable Development of India



Chairman of National Convention Er. Gurunath M. Naik Parrikar presenting the welcome speech of the 32nd National Convention of Civil Engineer



Er. Ernesto Moniz being honoured at the hands of Governor Dr. Mridula Sinha at the inaugural session of the 32nd National Convention of Civil Engineer



The Best Paper Medal being presented to Ms. Pramodini Naik Gaonkar, Lecturer, Government Polytechnic Bicholim by the National Convener, Shri Austin Rodrigues



Chief Guest of the Valedictory Function Shri Ramkrishna alias Sudin Dhavalikar, Minister for PWD, addressing to the gathering



Hon. Secretary Er. Deepak Karmalkar proposing vote of thanks at the Valedictory Function



Organising team of the 32nd National Convention of Civil Engineer

The Hon. Governor of Goa, Dr. (Smt.) Mridula Sinha called upon the Civil Engineers to take into account the social and cultural angles of the common man while designing buildings. She also stressed upon the need to create a balance between environment and development while carrying out their professional duties.

The Governor was speaking as the Chief Guest, after inaugurating the 32nd National Convention of Civil Engineers, organized by the Goa State Centre of the Institution of Engineers (India).

The two days Convention got underway at the Goa University Campus on the theme 'Role of Civil Engineering in sustainable development of India'.

Er. P. Niranjana, Vice President and Business Unit Head, Larsen & Toubro Ltd., was the Guest of Honour. Er. H.C.S. Berry, President, The Institution of Engineers (India) in his address

explained the role and functioning of the Institution and gave details of the various disciplines of engineering and the membership of the Institution. Er. Narendra Singh, Chairman, Civil Engineering Division Board spoke on the functioning of the Civil Engineering Division of the Institution. Er. Austin S. Rodrigues, Convener of the Convention, gave the details of the two days Convention.

Six Civil Engineers from different parts of the country, including three from Goa namely, Er. Madhav Kamat, Er. Ernesto Moniz and Er. Umesh H. Naik from Goa were awarded with 'Eminent Engineers Award' and were felicitated at the hands of the Chief Guest. Three Young Engineers were also felicitated at the hands of the Chief Guest.

A Technical book cum CD was released on this occasion at the hands of the Chief Guest. Er. Gurunath M. Naik Parrikar, Chairman of the Goa State Centre welcomed and Er. Thomas

D'Costa, the Organising Secretary proposed the vote of thanks.

An exhibition of building products was arranged at the site of the Convention. Information Desk consisting of various publications of IEI, different forms of Membership, IEI lapel pins, Ties was also on display in the exhibition.

The National Convention concluded with a Valedictory Session at which Shri. R.M. Dhavalikar, Hon. Minister for Public Works Department, Government of Goa was the Chief Guest. In his address he impressed upon the delegates to do their professional works to help in the development of our country. He emphasized the need to ensure that quality of all the development works should be controlled so as to make every

structure safe and sustainable.

Er. Yogesh Bhober read the report of the two days deliberations and Er. Austin Rodrigues read the Recommendations at the end of the Convention. The Prize for the best research paper by Ms. Pramodini Naik Gaonkar, Lecturer, Government Polytechnic Bicholim 'Performance Based Seismic Design – A Sustainable Seismic Design Approach for RC Buildings' was given at the hands of the Chief Guest.

Er. Gurunath M. Naik Parrikar, Chairman of the Goa State Centre welcomed and Er. Deepak A. Karmalkar, the Hon. Secretary proposed the vote of thanks. The Convention was attended by over 200 delegates from all over the country.



Managing Committee of Goa State Centre (2016-2018)



[Standing from left to right: Er. Abhay Bhamaikar, Er. Chandrashekar G. Prabhudessai, Er. Anwar Khan, Er. Rajendra Hegde, Er. Ramkrishna D Bhide, Dr. Ulhas G. Sawaiker, Er. Mahendra Kumar Jain, Er. Datta Kare.

Sitting from left to right : Er. Dilip Sahakari, Er. Deepak A. Karmalkar, Er. Gurunath M. Naik Parrikar, Er. Gerard D'Mello, Er. Yogesh Bhober, Er. Balkrishna Chodankar.]

Talk on "Opportunities in Solar Energy Field"



Members of Students Chapter of the Institution of Engineers (India) Goa State Centre

On the occasion of 49th Engineers' Day, the **Don Bosco College of Engineering Students Chapter of the Institution of Engineers (India) – (Mechanical)** organised a talk on "*Opportunities in Solar Energy Field*" by Mr. **Yogesh Naik**, CEO, and Greenfield Technology on **15th September 2016**.

Second and third year Mechanical Engineering students attended the program. Mr. Yogesh Naik explained to students the rising energy demands, threats to energy security and the impact of climate change. He highlighted that solar energy being renewable offers critical solutions including roof top solar panels in dense urban areas. He added that solar energy can not only help solve the daunting challenges but it also creates jobs, reducing toxic pollution. Given the large employment generation potential of solar energy in India, he



View of the Audience

said that a significant proportion of Indian workforce would need to be trained with necessary skills to support the market.

Prof. **Ajit Salunke**, HOD-Mechanical thanked the speaker for sharing his knowledge and experience. The program was coordinated by Prof. **Sharad Shanbhag** and Prof. **Sachin Turi** welcomed the speaker.



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Visit to Gemini Motors at Colvale Industrial Estate

A technical visit was organized on 1st October 2016, for the students of Third Year Mechanical Engineering of Don Bosco College of Engineering, Fatorda, Goa. They were taken to Gemini Motors at Colvale Industrial Estate. Students were accompanied by Prof. Chetan Gaonkar, Prof. Swapnil Ramani, Mr. Anwar Khan and Mr. Dilip Sahakari (of IEI Goa state centre). Mr. Agnelo Gomes, Director of Gemini Motors made the arrangements to explain all the sections with the help of their staff...

The students saw the maintenance of the gearbox and differentials of Ashok Leyland trucks. They were briefed about the way the defects are identified and procedure for servicing. Another interesting aspect was the incorporation of mechatronic elements for servicing and also the wheel alignment and balancing checking. Also students saw the working of Scantol a device which checks if the sensors on any engine part like fuel injector or valves are malfunctioning and hence they can detect the defects without any overhauling or disassembly saving lot of effort and time. Also the various sensors



Visit to Gemini Motors at Colvale Industrial Estate, North Goa

used for wheel alignment were also displayed and their working was explained. It was a very enlightening and learning experience for the students of Mechanical Engineering.

The visit was organized by Er. Anwar Khan, in association with Prof. Ajit Salunke (HOD-Mechanical, DBCE) and Er. Dilip Sahakari, and attended by Prof. Chetan Gaonkar, and Prof. Swapnil Ramani and 75 students.



Workshop On Comsol Multiphysics



Faculty Members from various Technical Institutions in Goa and Students of Mechanical Engg. Division from Padre Conceicao college of Engineering, Verna, Goa

A workshop on “COMSOL Multiphysics for Academic Research and Teaching” was conducted by The Institution of Engineers, Goa State Centre in association with Padre

Conceicao College of Engineering, Verna, Goa and COMSOL Multiphysics India on 30th September 2016. The talk focused on the use of COMSOL Multiphysics for academic research and education.

The talk began with an introduction to the software followed by an in-depth “under the hood” overview of the equation based approach used by COMSOL in applications relevant Mechanical, Electrical, Fluid and Chemical engineering applications. This was followed by the relevance of COMSOL in education and how COMSOL can be used to complement both theoretical as well as laboratory based classes.

The workshop was attended by a large number of faculties from various technical institutions in Goa. The programme was convened by Er. Balkrishna M. Chodankar, Convener, Mechanical Engineering Division.



“ISO Standards for Quality Education and Training”



Dignitaries during the Talk on “ISO Standards for Quality Education and Training”



Mr. Santosh Nair presenting the talk

A talk on “ISO Standards for Quality Education and Training” was organized by the Institution of Engineers, Goa State Centre in association with International Centre Goa, Dona Paula on 14th October 2016 to celebrate “the World Standards Day”. The resource person for the talk was Mr. Santosh Nair, owner of Progressive Management Consultants, Goa and a certified lead auditor with IRCA, UK for ISO 9001.

The talk emphasized on the need for ISO standards in educational institutions and explained the detailed procedures involved in getting the standards. The talk was attended by heads of various schools and colleges in Goa. The programme was convened by Er. Balkrishna M. Chodankar, Convener, Mechanical Engineering Division.



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Talk on "Digilocker"

"DIGILOCKER" was launched as part of Hon. Prime Minister's Digital India project.

Program started with welcome speech by Er. Anwar Khan, followed by presentation by Er. Dilip Sahakari.

Live demonstration on how to open new account by feeding your Adhar Card number was shown in the slideshow presentation.

How to upload your documents and how to get documents from Govt. departments was also exhibited.

Few participants could open their account on Digilocker.

16 participants including IEI members Er. Balkrishna, Anwar Khan, Prabhakar, Ramkrishna Bhide and Dilip Sahakari were present for the talk.



Er. Dilip Sahakari giving presentation to the audience.

BOOK-POST



*If undelivered, please return to
The Institution of Engineers (India),
Goa State Centre, Quarter no D-8-1,
D Type quarters, Government Polytechnic,
Altinho, Panaji Tel No: 2434686*

New Members List

Name	Location	Division	Grade/Upgraded	Month of Joining
Naik Pramodini shabi	Mayem	Civil	M-156289-9	31 Oct 2016
Naik Shruti Gurudas	Mapusa	Civil	AM168341-4	30 Sep 2016

We request our members to get more interactive with the Institution. We'd love to have your contributions towards our bulletin too. Do send in your articles, reports and other information that you'd like to share with other members to our office:
Institution of Engineers (India), Goa State Centre, Quarter no D-8-1, D Type quarters, Government Polytechnic, Altinho, Panaji. Tel No: 2434686 Email : goastatecentre@gmail.com Website.: www.ieigoasc.org