PUNE SECTION NEWSLETTER

From Chairman's desk

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Announcements

I am happy to announce the launch of IEEE Pune Section's quarterly newsletter on the auspicious day of Ram Navami. In continuation with our tradition, we seek the blessings of the Goddess Saraswati for this new beginning for success,

This issue contains an article from Shri. D.M. Tagare – our founder member narrating the journey so far and the expectations in the years to come. The newsletter then gives reports of the various Chapters activities conducted during the period Jan – March this year. I am aware that lot of content could be added to make it informative and content rich. However given the limited time frame we have had, we have decided to launch it quickly. Going forward, we expect lot of contribution from the members in the forthcoming issues.

We welcome the reports of the student branches, articles from students/ faculties & industry experts, announcements regarding IEEE events, conferences/ workshops etc. Further, we also invite members to volunteer and come forward to actively participate in Pune Section activities. IEEE is expanding its scope to reach out and pass on the benefits of technology to every section of the society. In this regard, Humanitarian activity, Education, Industry interactions, Women education and empowerment are high on the agenda. Pune Section members are welcome to come forward in actively contribute to these initiatives.

We are in the process of giving a facelift to our section website to include more dynamic contents such as blogs, reports, announcements etc. Kindly visit our website www.ieeepunesection.org and mail your contents / suggestions.

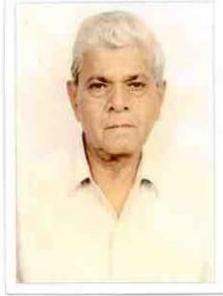Wish you a happy reading & enjoyable surfing!

- Avinash Joshi

Note: The views expressed by various authors in this newsletter are their own and should not be construed as that of IEEE Pune Execom committee or of the Section on the whole

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Founder Member Speaks: Shri. D.M.Tagare

I have been an IEEE member since 1973.My interest was to get technical information on an electrical capacitor technology. I was more than satisfied.

Around 1998-99, Mr. C. Satish of IAS Region Council wrote a letter suggesting that I form an IEEE Chapter in Pune. IEEE had & has, lots to offer. Why not extend the benefits to others? It took me 3 months to get the minimum 12 signatures to form a joint chapter along with PES. While scouting for signatures I realized that IEEE had tons to offer to COE's in Pune & they all were missing it. I scouted from Principal to Principal & within less than one year we had 24 student member branches of IEEE. The students were vigorous & we had a line of distinguished lectures giving lectures to all these colleges cyclically. I could get student branches of IEEE activated at outstations also – at Nagar, Nasik & Kopargaon, Students & staff from there came all the way to participate in events in Pune.

It took many years & formation of some more chapters in Pune for Pune to have a Subsection of IEEE. The opening of the Subsection in 2003 was a gala function for Pune students with the COEP convention hall over flowing. It was addressed by the Principal of COEP & by the Manager – Software Park- Hinjewadi.

Subsection to section was a long journey – Dr. Bharat Chowdhary deserves credit for the final achievement.

I was born a British Subject. In our school days we sang about how vast & merciful the British Empire was & we prayed "Long live the king". World wide spread of IEEE with a technical lecture going on at any given time in the world does not awe me. It is the IEEE character which stresses that if you had a special chance at education over others to become an engineer, you owe a return to the society. That is how IEEE Pune came into existence. That is why it should be there.

Finally I have some suggestions to offer –

Suggested Directions to follow for IEEE Pune Section:

1. Increase the expanse of IEEE to cover adjoining Universities – in Kolhapur, Sholapur, Nasik, Nagpur, Dhule.
   Presently our jurisdiction is so limited that we do not cover even Maharashtra Academy of Engineering at Alandi

   More students & academics should benefit from IEEE.

2. Get IT industries in Pune to introduce final year batches of computer Engineering students acquainted with the working of their industries.

   This cannot be done by merely arranging a passing lecture here & there.

   Present a regular sub-syllabus, take periodical classes & conduct exams. TCS had once offered to undertake this.

   IEEE support was half-hearted & COE's did not take to this heartedly.

   Actually this upgrades the COE, pushes up student levels & helps the supporting industry.

   The above applies to automotive industries as well.

3. Every year missives originating from "powers that be "extol academy – industry correlations. Colleges also lament that those industries are not coming to them for help on industrial problems.
   Indian industries are/have to be at the marching head of technology to be competitive. Most of   them are expanding vigorously & take help from consulting firms who have invested in technical knowledge & experiences. COE's as they stand, are of no help.

   I have a bold suggestion for the COE's.

   Start a commercially competent consultancy branch in your COE in a subject which is rapidly expanding – by employing experienced personal in that field. I will cite two industries – Cement is expanding all over not only in India – but in neighboring countries. We are exporting capacitors to them. The consultancy includes carbon control & energy utilization efficiency. Another rapidly increasing sector is electricity generation.

   Within a years time, industries should be knocking at your doors & not you waiting for them.

   On both suggestions 2 & 3 IEEE Pune Section can act as a co-ordinator with IEEE's store of knowledge & group of members.This has to cross lots of barriers long all the ways.

Activity Reports Jan-March 2012

I) IEEE Pune Section's Congress 2012

PICT IEEE Student Branch(PISB) was honoured to host IEEE Pune Section's Congress 2012. The event was a first of its kind. The Congress was held on 9th and 10th of March in Pune Institute of Computer Technology. It provided a forum for all the student branches in Pune to interact, share and express their ideas. It served as the required platform for the delegates to discuss and deliberate on several issues regarding IEEE and the student branches in Pune. A special workshop was held by the head of Global Integrated Network of IEEE(GINI) Mr Arjun Pillai on networking between student branches and its importance. IEEE Pune Section's Congress 2012 was attended by Counsellors and student representatives of various student branches.

II)WIE Activities 2012

The group has actively arranged various technical and social activities for benefit of girl students (School/college) as well as women (working/housewives).

To mention a few, for technical skill development we arranged lecture on PLC/SCADA, arranged training program on MATLAB for Technical Assistants, Technology awareness program for school girls.

To build the team spirit, increase the potential of women in adverse environmental conditions, we arranged lecture on 'Antarctica Expedition'.
With this and with many more plans and activities scheduled for the year 2012, the group will continue to add its contribution to the society and in particular to overall development of women.

Every year 8th March is celebrated as International Women's Day, originally called International Working Women's Day. This year IEEE-WIE Affinity Group, Pune Chapter has celebrated this by giving a thought over the future challenges and responsibilities that are to be handled by young women engineers and creating awareness among them about the present social conditions and pros and cons of things that are traditionally followed over for the generations. Ms. VidyaBal, renowned social reformer was invited to discuss and deliver a talk on this in PES's Modern College of Engineering, Pune-05. This session was attended by more than 70 girl students and about 25 Professors. The session was quite interactive and speaker discussed many things like- importance of friendship, communication among different age-groups, challenges ahead, needs and skills of today's working women.

III) ComSoc Chapter

Dr Koichi Asatani , IEEE Distinguished Lecturer, a Professor at Kogakuin University, Tokyo, Japan. Visited Pune from 24th January, 2012 till 26th January,2012. He delivered Lectures on "**Trends in NGN and Its Issues"** at

- **COEP, on 24/01/2012,**   from 3 pm to 4.30pm

- **PICT, on 25/01/2012**   from 10am.to 12.00Noon.

He touched upon various topics such as

- Global ICT Developments

- Fixed-broadband

- Broadband Access in Japan

- Evolution in Networks and Applications

- Next Generation Networks -Principl

- IMS-based NGN Configuration Examples

- NGN Standardization

- ITU-T Recommendations on NGN

- NGN Issues

The Lecture at COEP was planned by Dr M A Joshi, Vice Chairman IEEE Pune Section and coordinated by Dr (Mrs) Metkar.

The lecture at PICT was Planned Dr R B Ingale and was co-ordinated by Dr Ingale and Prof M J Khurjekar

A dinner was organized in his honor on 24th January 2012, was attended by members of IEEE Pune section Executive Committee. Dr Koichi was accompanied by his wife Mrs. Keiko Koichi.

ii)

Dr Vijay K Bhargava, Professor, at Department of Electrical and Computer Engineering, The University of British Columbia, Vancouver, Canada. He is a Chairman, IEEE communication Society, for 2012.

He visited Pune on 22nd February,2012. His Lecture was organized by Prof P D Khandekar at VIIT,Pune and coordinated by Student Counselor of VIIT Student Branch, Miss A A Kulkarni.

The Brief Overview of his Lecture is as follows.

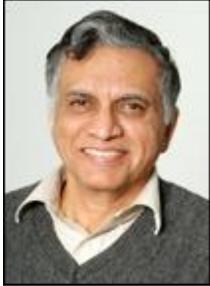### "Green Cellular Networks: A Survey, Some Research Issues and Challenges"

In this talk, he presented techniques to enable green communications in future generation of wireless systems that will rely on cooperation and cognition to meet increasing demand of high data rate. So far, achieving high data rate has been the primary focus of research in cooperative and CR systems, without much consideration of energy efficiency. However, many of these techniques significantly increase system complexity and energy consumption. Escalating energy costs and environmental concerns have already created an urgent need for more energy-efficient "green" wireless communications. Therefore, there is a need to design energy-efficient solutions for cooperative and cognitive networks, which will potentially drive the future generation of wireless communication. He focussed on several important topics that are crucial towards reducing the energy consumption of the cognitive and cooperative networks. These topics includeed efficient base station redesign, heterogeneous network deployment, green communications via cognitive radio, cooperative relays to deliver green communications, and energy efficient cognitive cooperative networks"

It was an Honor of IEEE COMSOC Chapter of Pune, IEEE Pune section and VIIT,Pune, to have opportunity to organize the Lecture of Chairman IEEE COMSOC.
The lecture was attended by students and faculties of engineering Colleges in and around Pune.
The Lunch was arranged in the Honor of Dr Vijay Bhargava. Dr Bhargava Departed on the same day evening.

iii.

Dr Suresh Borkar is faculty in Electrical and Computer Engineering at Illinois Institute of Technology, Chicago, USA. He is also senior Principal Investigator at Roberson & Associates, USA. He is distinguished Lecturer of IEEE.

His Lecture on **Telecom – 3G/4G Wireless Imperative for India** was held at AISSMS,IOIT,Pune on 19th March 2012. The Lecture was coordinated by Mr Sachin Shelar, faculty at the Institute and member of IEEE Pune section Exicon.Prof (Dr) P B Mane, Principal of AISSMS,IOIT, Pune was very active in organzing this lecture and extended total support.

Dr. Borkar addressed the following content

India currently has a very wide voice oriented 2G cellular technology based network. In order for India to continue on its pursuit of providing quality life to all its citizens and accelerate the pace of national growth, it is an imperative to provide broadband access and packet transport based network across the country. A nationwide broadband network is needed to provide education, healthcare, banking and other services to all the villages and towns. Key services like telemedicine, e-commerce, e-banking and e-government can be made available through high-speed Internet connection. It is very important that based on the goals and issues relating to the Indian environment, informed decisions be taken on the strategy and introduction of 3G and 4G broadband access technologies including 3GPP WCDMA/HSPA, 3GPP2 CDMA2000, 4G LTE, and 4G WiMAX. This seminar identified the attributes, parameters, and the relevance of these technologies for India's environment. Perspectives was provided on mitigating key issues including affordability, digital divide, urban and rural gap, and relevance of appropriate services and applications. The seminar also covered related topics including applicability of global processes and perspectives to Indian environment, developing a balance between regulations and competitive rules, and the need for indigenous telecom product manufacturing. Specific scenarios were covered based on the use of varying mixes of the 3G WCDMA/HSPA, 4G LTE, and 4G WiMAX technologies. Emphasis is placed on recognition of Telecom as a critical part of national growth, uniformity and consistency of policies, and adequate and predictable availability of spectrum.

The Lecture was attended by Engineering degree students of AISSMS,COE & IOIT, Modern College and Wadia College. Many a faculty members of these and other colleges, such as VIIT, PVGCOET and COEP also participated. The Lecture was highly Interactive and was well appreciated by participants.

IV) Computer Society Chapter

1. Talk conducted on "Future of Computing: Computer for impacting other disciplines" by Dr. Unmil karadkar, Assitant Professor Texas Austin on 7th Jan 2012, at Seminar Hall, PICT, Pune.

2. Dr. Rajeh Ingle – Chairman, Computer Society Chapter delivered talk on "**How to avoid and guard against plagiarism**" at various institutes and conferences
   - National conference RTTT-2012, Recent Trends in Information Technology, 17th march, 9.30 am to 10.30 am at JSPM Narhe Technical Campus. The five levels of plagiarism by IEEE computer society was also covered in this session.
   - Workshop on " Distributed Operating Systems" on 16th to 17th March 2012, 10.00 am to 11.00 am at GS Moze Collage of engineering.
   - State level workshop on " Recent opportunities in Distributed Computing" on 12th March at 11.00 am, at AISSMS'S Instititute of Information Technology
   - Workshop on "Research directions in computer networks and distributed systems" on 9th march at 2.30 pm, at KJ collage of engineering

- Workshop on "Current Trends in Distributed Systems" on 23rd Jan, 2012 at PVG Collage of Engineering at 2.00 pm

Announcements

Volunteers/nominations are requested for the following posts this year. Kindly send the brief profile by 15th April 2012 to Dr. Rajesh Ingle ingle@ieee.org

1. Education Activity Chair

The various activities carried out by education society are listed on
http://www.ewh.ieee.org/soc/es/

2. Humanitarian Activity Chair

IEEE is encouraging to carry out Humanitarian Technology Activities in its sections for the benefit of underserved. IEEE also encourages to form a Special Interest Group on Humanitarian Technology (SIGHT) in the sections and to take up Humanitarian Technology activities. Kindly refer http://ieeesight.net for details on SIGHT and its formations. All the members forming SIGHT are required to register online at http://ieeesight.net

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