IEEE India Info

IEEE India Council Newsletter

Message from Chairman

Dear Members,

   I am happy that the first issue of IEEE India Council's News Letter series 2014 with Mr. N.T. Nair as the Newsletter Editor has come out very well. As you all are aware, the Newsletter of IEEE India Council is the media to communicate the activities of the IEEE Sections, Chapters and Societies in India to the community. Cooperation of the entire IEEE Community in India is required to make the Newsletter more purposeful. I therefore appeal to all concerned to pass on the activities of the Sections, Chapters and Societies to the Newsletter Editor on time periodically every month without waiting for his call or request. I also invite the members to write aricles on the promotion of membership, involvement of students with activities, on the services that IEEE Units in India could render to the society at large, ideas and suggestions for the retention of membership status on a continual basis, particularly retention of student membership, etc.

   It is observed that most of the students who join IEEE during their first year do not continue till their final year of study. This is giving a great concern to all quarters of IEEE. One of the reasons given for this situation is that the IEEE student members do not have adequate and interesting activities. In this connection I would like to invite the attention of the Section Chairs and the Student Branch Counselors to the newly promoted activity, Pre-University Education for the school children, introduced by the IEEE EAB. IEEE Student Branches can adopt the schools in their area and conduct awareness programs to the school srudents towards higher education and promote Computer skill based courses offered by some Career Development Institutions for the school students using the school computing facilities and the school teachers. IEEE EAB has given approval for a Computer Skill based program, "IT-SUITS" for offering through the IEEE India Sections. In the forthcoming EC meeting of the India Council the procedures and methods of organizing such programs will be discussed and finalized. Such programs shall be promoted by the IEEE Student Branches through their student members at the schools adopted by them. This activity will keep the IEEE Student Members active and it will help penetrating the awareness of IEEE in the young minds of future professionals.

   This month's highlights on membership states that the total IEEE membership is down by -4,968 members, total Society memberships are down by -4,705 over 2013 statistics. However, the membership strength in March 2014 is 332,904 which is up by 8.3% over the strength in February 2014, which is 307,348.

   Last month 141,043 members were deactivated who had not renewed for 2014, of which almost half were students. This is truly applicable to India Council. It is time for us to think about What can we do to alleviate this

situation. I think that all Sections should identify their unrenewed members and schedule an outreach either by phone or email, or both to encourage their members to renew. The sections should work with their student branches and provide student branch counsellors with a list of their unrenewed members and enlist their help in an outreach. The sections can discuss with the Student Branch counsellors and other members to innovate suitable methods to improve the situation.

As I already wrote in the last issue, the Last date for receiving proposals for 2014 IEEE Region 10 Fund for Technical Seminars and Distinguished Lecture Programs to be held in R10 Sections, by IEEE R-10 is 10th June 2014. I would like to remind all the Sections, Chapters and Societies to avail this opportunity without fail.

I also wrote in the last issue about the call for new volunteers to serve on IEEE Awards Board and on the Awards Board standing committees to assist with managing the recipient nomination and selection process for IEEE Medals, Technical Field Awards, and Recognitions, the highest awards IEEE presents on behalf of the IEEE Board of Directors. I wish that our senior members from India should avail this opportunity to have maximum representation in the IEEE organizational committees. One can visit the IEEE Awards Board Nominations and Appointments Web page for details.

I strongly believe that all of you will extend your support with involvement to the IEEE India Council to work for the benefit of IEEE Community in India as in the past. Looking forward for your support and inputs in future.

With kind Regards,

M.Ponnavaikko.
Chair, IEEE India Council

Words of Wisdom

You need to know what life you want (as well as what

life you don't want), then you have to muster up the will and the drive to go after it.

- Bob Greene

Never forget where you've been. Never lose sight of

where you're going. And never take for granted the people who travel the journey with you.

- Susan Gale

I soon found out you can't change the world.

The best you can do is to learn to live with it.

- Henry Miller

N T Nair, Editor, writes

Dear Friends,

While working on this issue of *IEEE India Info* newsletter, the recommendations of the last IEEE Sections Congress 2011 came to my special attention. (http://www.ieee.org/societies_communities/geo_activities/sections_congress/2011/sc2011_recommendations.html).

Of the 34 recommendations, five were rated as top ones by IEEE and listed so in the site. But I felt that some others in the list also do deserve consideration by the Sections, if not already done. Here is the list compiled by me from among the recommendations:

1. IEEE to develop a comprehensive long-term strategy to increase the number of next-generation youth pursuing science and engineering careers. (From top 5)

2. As members maintain their IEEE membership over the years, IEEE must reward them for their loyalty. Rewards ought to be tangible and useful and can be done simply and inexpensively. Create Global Fidelity Programs including: (a) Continue membership Recognition 5-10-15-20 years of membership; (b) Bonus for specific Benefits (e.g., reduced fee, IEEE merchandise, etc). (From top 5)

3. IEEE to develop a mechanism to allow members to find other members globally for collaboration on such issues as research, innovation, marketing, job hunting, career advice, mentoring, and similar areas of interest, etc.

4. IEEE to develop and organize volunteer resources such that they are centralized, easy to use, employ a standardized interface and intuitive semantic style, and are available in the language of preference of the user. New versions should be rolled out incrementally leading to reduced learning time.

5. Members Reward Program (MRP): Program allowing members and volunteers to earn points for involvement in IEEE activities. Points can be redeemed for IEEE merchandise, services, and discounted memberships.

Some of these recommendations would have already received attention and been implemented by now. In the case of others, the forthcoming Sections Congress of 22- 24 August 2014 in Amsterdam could be the occasion to make a soul searching and launch further actions.

While on this subject, as an observer of IEEE movement from within and also from the sidelines at times, I am concerned about the discussions taking place at some forums which can not be summarily ignored. Here are two samples:

• Need to shift IEEE to an organization that has one and only one direction: *Advancing Technology for Society.*

• Why are fewer IEEE members joining Societies?

Any criticism should be viewed with the seriousness it deserves by professional institutions like IEEE, to come out of its present comfort zone and see the realities. The environment is full of challenges and societies like IEEE are not exempt from them. Living on the laurels of the past and hoping that the future is secure, may not be wise. Timely corrections are a necessity and that applies to IEEE as well.

The present office bearers and all well-wishers are urged to act in haste to reformat the IEEE model in line with the current global trends, to ensure its continued relevance in the years to come.

With best wishes,

N T Nair

Information Resources

Compiled by
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An Engineering Career: Only a Young Person's Game?: If you are an engineer (or a computer professional, for that matter), the danger of becoming technologically obsolete is an ever-growing risk. To be an engineer is to accept the fact that at some future time—always sooner than one expects—most of the technical knowledge you once worked hard to master will be obsolete. Read the full article at http://goo.gl/gl3gUd

Energy Conservation: Critical to the Survival of Civilization: This white paper at http://goo.gl/HHiwgX will get you thinking about why energy conservation is so critical and how to accomplish energy savings by tackling the most fruitful opportunities first. After reading it you will understand where the prime targets for energy conservation exist and the four steps you need for successful energy management.

Wikibook: Data Science: An Introduction: This Wikibook at http://goo.gl/kjlA6m is a very basic introduction to data science. It is designed for the advanced high school student or average college freshman with a high school-level understanding of math, science, word processing and spreadsheets. No understanding of computer science is assumed. The main emphasis of this book to help students think about the world in data science terms. While some elementary data science skills will be taught, the point is not skill development, but rather critical thinking and problem solving development. These are skills that can be successfully applied to all phases of life, not just data science.

Engineering Cases: Solar Energy Harvesting at Closed Landfill Sites: By: Berrin Tansel. Renewable energy sources are expected to play a key role in initiatives for sustainable growth and development in the coming decades. An increase in regulations for the production of fossil fuels and environmental concerns have helped renewable energy sources gain acceptance. Recently, a number of closed landfills have been considered as potential sites for renewable energy generation (i.e., capturing energy from wind or sun). Read the full post at http://goo.gl/dklrJg

Engineering cases: Solar in the City: Avoiding the Pitfalls of Adding Solar Power to Existing Structures: By: David L. Grower. Solar arrays with sufficient power-generating capabilities that provide the necessary "return on investment" (ROI) to the customer require significant surface area. If the potential customer has enough open land area (for example, parking lots), then ground-mounted, parking shade/solar structure(s) are the most economical option. However, most buildings (including multi-level parking garages) in our cities have their roof surface as the only available array space. Rarely do integrators understand the engineering costs to add a solar array to an existing building's roof. Many proposed projects go bust when the "true costs" are calculated. See this case resource at http://goo.gl/WGBJfa

IT students miss out on roles due to lack of creativity: IT graduates fail to land top jobs due to a lack of creativity, employment firm Connections Recruitment has suggested. According to the recruitment specialist the UK currently produces 30,520 computer science graduates each year, but almost a quarter of these settle for non-graduate or unskilled roles after university. Jonathan Dobkin, director at Connections Recruitment, said: "With IT companies receiving an average of 73 applications for each graduate vacancy, it's clear college leavers need to make more use of the skills they should excel at such as creative problem solving and technology in order to stand out from the crowd. Read the full blog post at http://goo.gl/83Xj9r

Technology for good: Innovative use of technology by charities: This report covers innovative use of technology in charity and development and showcases how charity organizations utilize technology in the field and in their day-to-day operations. The top ten technologies selected are:

• Mobile technology: Mobile devices that range from low-end talk and text phones to smartphones or tablets.

• Tracking technology: GPS or other monitoring systems that track people and goods.

• Mapping technology: Tools that organize geographic data and feed data sets into a digital map.

- Social media and crowdsourcing: Data collection through open-sources.
- Data management technologies: Tools for processing large amounts of data or improving administrative functions.
- Radio/TV: New uses of these two important mass communication mediums in the developing world.
- Translation Tools: Quick or immediate translations using a combination of technology and crowdsourcing.
- Cloud Technology: Computing that allows access to software and information via the Internet instead of a hard drive or computer network.
- Portable Networks: Moveable devices that can create instant Internet connectivity or telecommunication networks.
- Drone Technology: Unmanned aerial vehicles used to leapfrog infrastructural deficits.

Pl. visit https://register.theguardian.com/global-development/ to register and download this free report.

Information shared by: Dr. San Murugesan

Ten steps to your next job: At the beginning of your job search you need to get into a positive frame of mind. Yes, the market is tough but there are jobs out there. With determination and a good understanding of how to manage a professional job search you will succeed. Follow these ten steps to job search success… read the blog post at http://goo.gl/A6hmN6

Union Pacific Delivers Internet Of Things Reality Check: Union Pacific, the nation's largest railroad company, is a choice place to assess the gap between the dream and the reality of what's commonly called the "Internet of things." Like a lot of technology movements, the Internet of things is easy to describe but hard to execute. It means putting sensors on all manner of machines to collect data, linking them over wired and wireless networks, and then applying data analytics to assess when a train's wheel needs replacing, a power plant needs fixing, a soybean field needs watering, or a patient needs reviving. Full article at http://goo.gl/LNQiWn

How to Protect Your Data on Your Stolen Laptop: Today's fast-growing highly mobile workforce is placing new demands on IT. As data growth increases, and that data increasingly finds its way onto laptops, the threats of data loss and security breaches have also increased. To guard corporate data on endpoints at all times, companies can follow a number of data protection and data security best practices. Incorporating these best practices can help you control sensitive information to mitigate the risk of regulatory and financial exposure and keep IT costs in check.

Read more at http://goo.gl/uYkW4Z about how to define security policies for laptops, how to enforce endpoint controls and how to ensure employee adoption all while keeping costs in check.

Datacrow: Cataloging Tool: Datacrow is often listed as one of the best cataloging tool. With Datacrow you can catalog movie, video, books, images, games, software, music, and more. Other features include: Create your own collection module, manage what you've loaned out, connect with online services (such as imdb.com, bol.com, and more), make use of reporting tools, file information importing and more. Datacrow is a cross-platform application (Windows, Mac, Linux) that is written in Java (which to some could be a deal breaker). So, in order to get Datacrow to work, you will need a JRE installed on the machine. One thing to like about the project is that the developer, Robert Jan van der Waals, has made the source code very readily available on his site and has invited users to make feature requests and report bugs. For more about Datacrow and to download, visit http://www.datacrow.net/

Manifesto for Cyber Resilience: An essential guide for an active defence strategy: Cyber Risks abound today, no thanks to unpredictable threats and human error. But there is a way to stay ahead of these risks by crafting an effective security strategy for Cyber Resilience. Read the "Manifesto for Cyber Resilience" and discover insights such as: The biggest risks facing your organisation today; Why you should expand the role of Cyber Resilience to every employee, not just IT security staff; and How pooling resources and shared knowledge can even the fight with cyber threats. Download it from http://goo.gl/F5s7lF

TED Video: The beauty of data visualization: David McCandless turns complex data sets (like worldwide military spending, media buzz, Facebook status updates) into beautiful, simple diagrams that tease out unseen patterns and connections. Good design, he suggests, is the best way to navigate information glut -- and it may just

change the way we see the world. Watch this 18 min TED video at http://goo.gl/hltS1v

TED Video: Build a School in the Cloud: Onstage at TED2013, Sugata Mitra makes his bold TED Prize wish: Help me design the School in the Cloud, a learning lab in India, where children can explore and learn from each other -- using resources and mentoring from the cloud. Hear his inspiring vision for Self Organized Learning Environments (SOLE). Watch this 23 min TED video at http://goo.gl/51X90w

TED Video: Innovating to zero!: At TED2010, Bill Gates unveils his vision for the world's energy future, describing the need for "miracles" to avoid planetary catastrophe and explaining why he's backing a dramatically different type of nuclear reactor. The necessary goal? Zero carbon emissions globally by 2050. Watch this 28 min TED video at http://goo.gl/C12qgP

Making the Right Decision When "Going Wireless": Anaren Integrated Radio (AIR) team member, Geof Cohler, walks through the key considerations engineers have to make when implementing a wireless product. Topics touched include: wired vs. wireless; trade-offs between range, frequency, power, and latency; which wireless protocol to choose; and making your own RF solution vs. using an RF module. Watch this 15 min video presentation at http://goo.gl/MVc5RJ

Everything you Need to Know about the Corporate World

1. Indecision is the key to flexibility.
2. You can't tell which way the train went by looking at the track.
3. There is absolutely no substitute for a genuine lack of preparation.
4. Happiness is merely the remission of pain.
5. Nostalgia isn't what it used to be.
6. Sometimes too much to drink is not enough.
7. The facts, although interesting, are irrelevant.
8. The careful application of terror is also a form of communication.
9. Someone who thinks logically is a nice contrast to the real world.
10. Things are more like they are today than they ever were before.
11. Anything worth fighting for is worth fighting dirty for.
12. Everything should be made as simple as possible, but no simpler.
13. Friends may come and go, but enemies accumulate.
14. I have seen the truth and it makes no sense.
15. Suicide is the most sincere form of self-criticism.
16. If you think there is good in everybody, you haven't met everybody.
17. All things being equal, fat people use more soap.
18. If you can smile when things go wrong, you have someone in mind to blame.
19. One seventh of your life is spent on Monday.
20. Every time you make ends meet, they move the ends.

InfoTech-Quiz

1. 10,000 Start-Ups is the recent initiative of ------ to incubate, fund and mentor 10,000 start-ups in the next 10 years.
2. Amazon's headquarters is situated in ------
3. Half a byte (four bits) is called a ------
4. Wu Feng Professor at VirginiaTech and the Founder of Green500 which rates energy efficient supercomputers is widely recognized for introducing the first energy efficient and eco-friendly supercomputer named ------ in 2001.
5. The Internship is the comedy movie related to working at ------

IT in April 2014

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General
- Government grants Bank licenses to IDFC (Infrastructure finance company), Bandhan (micro finance company) on April 2, 2014
- *LokSabha* (Indian Parliament) Election starts on April 7, 2014 (results expected on May 16, 2014)
- India's factory output falls to the lowest level in 2 years in March 2014

Technology
- **ISRO** launches IRNSS 1B, the second in the series of navigational satellites to provide GPS-alternative on April 2, 2014
- *Mangalyaan* (Indian Mars Mission) crosses 340 million km and crosses half way mark on April 9, 2014
- Microsoft **Cortana** is the latest entrant to voice-based personal assistants

Products
- **Amazon** launches **Fire TV** (set top box) on April 4, 2014
- **Microsoft Windows XP** reaches end of life on April 7, 2014
- Indian mobile handset major **Micromax** launches Phablet**Canvas Doodle 3** on April 22, 2014
- **Microsoft** launches **Windows Phone 8.1** (with Cortana Personal Assistant), Windows 8.1 Update, **Nokia Lumia 930** (high-end Windows Phone) & **Nokia Lumia 630 /635** (low end Windows phone), and, makes **Windows free for OEM's on devices with less than 9" screen size** on April 4, 2014 (Build Conference); makes multi-party video calling over **Skype** free on April 28, 2014

Markets
- Global Pharma major **Novartis** creates history by swapping billions of dollars worth product portfolio with **GSK Pharma** and **Eli Lily** on April 22, 2014
- Indian Pharma major **SunPharma** buys another Indian pharmaceuticals major **Ranbaxy** (from Japanese **Daiichi**) for a whopping all shares deal of $ 4 billion on April 7, 2014, making it the fifth largest generic drug company globally
- Romesh Wadhwani founded **Symphony Teleca** acquires Pradeep Singh founded **AditiTechnologies** on April 9, 2014
- India's Big Six IT Services major **TechMahindra** acquires **FixStream** (Big Data startup) on April 21, 2014 for $ 10 million
- Real estate portal **CommonFloor** acquires **Flat.to**(start-up focused on students / bachelors accommodation) on April 21, 2014
- US-based Indian IT services major **Cognizant** set to buy US-headquartered "itaas" digital video solution on April 22, 2014
- Apple, Microsoft, TCS, Infosys announce good results for January – March 2014 quarter

Indian IT Companies
- **TCS** enters Global Top 10 (replaces **CSC**) in April 2014
- **TCS Mitsubishi** JV to add $ 600 million to TCS annual revenue next year

Global IT Companies in India
- **Nokia Mobile** becomes **Microsoft Mobile** on April 25, 2014
- **vmWare** set to invest $ 500 million in Bangalore in 2014

People

- **Cognizant** president R **Chandraskearan** is **NASSCOM** Chairman from April 1, 2014; takes charge from Mindtree Founder N Krishna Kumar
- Dr S **Ramani** (former TIFR Scientist, NSCT Director, HP Labs Bangalore Head and IIIT-B Faculty member) is the first Indian inducted into Internet Society's "Internet Hall of Fame" on April 8, 2014 in Hong Kong
- Well-respected Indian industrialist **Ratan Tata** gets the highest civilian award Knight Grand Cross of the Order of the British Empire, the only Indian to be given this particular awards since India's independence on April 10, 2014
- Bangalore-born American **Vijay Seshadri** wins **Pulitzer Prize 2014** on April 15, 2014
- **Justice Lodha** sworn is the 41st **Chief Justice of India** on April 27, 2014
- India-born **Rajeev Suri** takes over as **Nokia global CEO** on April 28, 2014
- **Arvind Kejriwal** of **AAP** and **Narendra Modi** of **BJP** in "**100 Most Influential List of 2014**" of **TIME Magazine**
- **US Ambassador to India** Nancy Powell logs out of India in April 2014

Telecom

- **TDSAT** rules that 3G spectrum sharing is legal, setting aside the Telecom Ministry order; quashes the Rs 1,200 crores penalty on telcos on April 29, 2014

Infrastructure

- **GMR** lands $ 390 million **Cebu Airport** deal from Philippines on April 5, 2014 to renovate and operate the Airport
- Mumbai gets the first double decker flyover on April 18, 2014 connecting Santa Cruz and Chembur
- **Jindal Steel** commissions **Vijayanagar cold rolling Mill** on April 25, 2014 expected to make steel available at lower cost to automotive car manufacturers in India

Interesting Applications

- **BJP** Prime Ministerial candidate **Narendra Modi** uses 3D holographic projection to reach out; "speaks" to Bangalore citizens on April 11, 2014 remotely, with stunning quality

Interesting Numbers

- **Telecom subscriber** base on February 28, 2014 stood at 931.95 million with 903.36 million mobile subscribers and 28.59 million wire-line subscribers (with net addition of 10.05 million mobile subscribers and net reduction of 0.13 million wire-line subscribers in February2014) (TRAI Press Release No. 21/2014 dated April 23, 2014)
- **India's Foreign Exchange** on May 2, 2014 was at $ 311.86 billion (RBI)
- **Indian Rupee** stood at 60.42 against USD on April 30, 2014 (RBI)
- On April 30, 2014 **BSE Sensex** and **NSE NIFTY 50** (Indian stock market indices) were at 22,417 and 6,696 respectively (Reuters)
- **Facebook** users in India cross 100 million on April 9, 2014
- Indian **Internet speed** slowest in APAC region - 20 MBPS of Korea Vs1.5 MBPS of India (**Akamai** Report April 23, 2014)
- **MundraPort** creates history carrying 100 million tons of cargo during April 2013 to March 2014, the first ever for any Indian port
- **CEA** (Central Electricity Authority) talks of 1,023 billion units of electricity generation in India during 2013-14; **Indian solar power capacity** crosses 2,500 MW capacity on March 31, 2014 with Gujarat accounting for 750 MW
- India has a **housing shortage** of 25 million homes as of April 2014; there is a paradox of 11 million vacant homes too (Urban Development Ministry
- Toyota makes 9.83 million cars and No 1 in the world, expects 10 million this year

Engineer in the Making

N T Nair

'Industry Ready, Institute Ready, Business Ready'

That should be the aim of every student of engineering, when he comes out of the college. The choice is left to the student depending on his passion to select a career in industry or teaching or business or research. But the ground work should be well carried out during the college days, if one has to be armed with the necessary skills to shine in the chosen career.

Excelling in the course work to lay a strong theoretical foundation as well as acquiring enough hands-on experience is, of course, a must during the study period.

That said, it is only the necessary condition and there is much more to be done if one has to stand out from among the large crowd of engineering graduates reaching the shores every year.

Engineer is always in transition to management domain and it requires appropriate skills, to be acquired along the way. And the process can start while in college itself.

Here are some suggestions regarding certain, out of the ordinary, skills that could be added with some extra effort to enhance the value of the individual:

- **Engineer as a Powerful Communicator**: An engineer is always surrounded by people of all categories, warranting his attention. It could be the peers or juniors or even seniors, with whom all he has to regularly communicate effectively, with **A**uthenticity, **B**revity and **C**larity. This is a skill set that has to be acquired, continuously polished or fine tuned so as to earn a reputation in the circles as an effective communicator, who value the time of others and practices brevity in speaking and writing.

  In this connection the following extract from an IEEE e-book,'***Writing For Success - An Engineer's Guide'*** by **Tom Moran** may be noted**:**

"As engineers we strive to create useful things. Whether it is the design for a bridge that will span an eight-lane highway, a timing circuit to automatically control the phases of a heat treating cycle, or a system of pipes and fluid control devices to irrigate a vineyard, engineers' efforts are aimed at developing devices, products, methods and systems that will be of use, that will be improvements over what is currently available, and that others will benefit from in some tangible way. ....

Every piece of writing we do as engineers has an objective; we want our readers to gain the information they need, and use it to make decisions and choices. If we design the messages and documents we prepare with skill and care, those decisions and choices will be smart ones, and in many cases favorable to our own goals and interests. New equipment will be approved. Steps will be followed. Proposals will be accepted. Process changes will be investigated. Projects will be assigned more resources. Accomplishments will be recognized."

In short, every engineer-aspirant should start early from college days to acquire the skill to put across their points most effectively.

- **Learning from Great Visionaries:** There are several highly successful people in the world who have created great products or industries or other institutions, with their innovative skills, management acumen and other enviable traits. There are many things to learn from them to be emulated in one's own career. Some examples include Henry Ford of Ford Motors, Steve Jobs of Apple, Bill Gates of Microsoft, and the list goes endlessly, from many parts of the world. Several articles, blogs and books are available about the ways in which they went about establishing their business ventures, braving several setbacks or bottlenecks along the way. A constant search for such inspiring life sketches should be in the agenda of every person, be a student or practicing engineer.

- **Building Relationships:** Interacting with knowledgeable people through physical networking has no easy substitutes, even if one is very active in social networking domain. Occasions like seminars, workshops etc. could be well utilized to make contact with the speakers, most of who may respond well if approached with an inquisitive mind.

- **Work in Teams:** Often students and youngsters are seen to be sitting in isolation waiting for the opportunity to come to them. For carving out a successful career, one has to go out in the open and take role as a member of the team trying to do things. To play this team role successfully, some important aspects are to be kept in mind - accept and respect the role of other members of the team, each with their own skills; do not try to project yourself as solely responsible for the success of the venture, even if that is the truth and be broadminded to share the glory. True leaders are groomed this way.

- **Identify Your Flaws and Fix Them:** Often, people are reluctant to accept their flaws or mistakes and try to put the blame on other team members. In the long run, it way bring-in bad reputation. Hence, it is important to own responsibility for every action of ours, including mistakes and try to correct them at the first opportunity, making sure that we do not repeat the same mistakes again. Fairness and ethical ways of doing things should be our driving forces.

Finally, it should be in the agenda of every student of engineering or for that matter, any other discipline, to practice continuous learning as a daily routine - especially from an interdisciplinary angle. Our activities are influenced by happenings in other domains, in addition to engineering landscape.

When one looks back just before retiring to bed, there should be a feeling of at least some minimal achievement in the form of knowledge acquisition, that adds value to the individual. The next day should dawn seeing us richer, not in money, but in knowledge in some form.

Technology Snippets

Wireless Bug Sensors to Help Farmers

Researchers of the have developed an insect sensing method with a sensing accuracy of 99%. This innovation is supposed to help in protecting the crops from insect attacks and also help in controlling spread of vector- borne diseases like malaria and dengue fever.

So far the researchers had been depending on acoustic sensing devices, wing beat frequency and limited data. The new method detects the flight behaviour patterns of the insects through optical sensors, uses other data like time of the day, location, environmental conditions, etc to arrive at the final decision. This wireless bug sensor is likely to be in common use sooner as it would be an inexpensive one. Hope that a proper detection of the insects would also limit unscrupulous pesticide usage.

[For details : http://esciencenews.com]

eNose to Diagnose Diseases too

Prostate cancer is the second most common cancer in males leading to death. Its heterogeneity makes it difficult for early prediction of the disease. The Digital Rectal Examination (DRE) and Prostate specific antigen (PSA) testing methods have limitations for providing early warning and ultrasound guided biopsies are very costly.

It may be possible in the immediate future to make easy and early diagnosis of prostate cancer by smell. A novel non-invasive technique is developed to detect prostate cancer using an electronic nose (eNose) which consists of a cluster of non-specific sensors, mainly olfactory electronic sensors. When exposed to the sample the eNose would provide the profile of a "smell print".

Recently it was demonstrated that, the eNose successfully discriminated between prostate cancer and benign prostatic hyperplasia (BPH) by "sniffing" urine headspace (the space directly above the urine sample).

The capability to do qualitative analysis of complex gaseous mixtures of molecules makes the eNose widely used in food and agricultural quality control as well as in military applications.

[For details : http://esciencenews.com]

Internet Printing Protocol

T S Ajayghosh,

Joint Director, Centre for Development of Advanced Computing (CDAC), Trivandrum

The Internet Printing Protocol (IPP) initiated by IETF (Internet Engineering Task Force) is an application-level protocol to provide a standard means of delivering print jobs to a printer using Internet tools and technologies. A wide variety of new applications for printing including improved ways for existing print applications were envisaged under this technology. You can push a print job through Internet to an IPP enabled printer located anywhere in the world. A document can be sent from your home computer to your office printer through Internet. A sales person can easily submit his daily report to the company in print form from the field itself. Hence IPP provides an alternative to fax machines that improves print quality and reduces long distance telephone charge.

IPP standard enables to enhance the printing capabilities in such a way that it allows users to interact with printers in real-time for getting target printer capabilities, enquire about the status of a job or cancel a job that has been submitted. Distributed printing is the main advantage of IPP. It allows an end user to use a remote printer with the same methods and operations followed in a local printer. Periodical documents or newsletters can be distributed to its subscribers by posting the same to their printers through IPP. You can even send the link of a document available in the web to a remote IPP-Printer in order to get it downloaded and printed. You can get the print of a report from a copy shop according to your options like shop location, cost of printing, printer quality etc. by simply sitting in front of your computer.

Figure-1: IPP Network

In the absence of a universal standard for printing, many printer vendors have introduced proprietary printers for network printing with their own protocol. Several protocols are in use, but each has limitations and none can be considered superior. So printer vendors have to implement and support a number of different protocols and protocol variants. There is a need to define a protocol, which can cover the most common situations for printing on the Internet and support interoperability. IPP has been introduced as a solution to this. IPP is a collection of open standards that define a high-level network printing protocol. It supports any kind of print data, encryption, authentication, streaming, compression and controlled printing features like paid printing, print colour management.

The initial IPP activities started in late 1995. The major players were Novell, Xerox, IBM and HP. They formed the Printer Working Group (PWG) under IETF including representatives from printer vendors and started the IPP project. They published the first IETF approved set of specifications, IPP Version 1.1 in September 2000

after a series of draft publications. During this period, a number of IPP products including IPP clients, print servers, printers with embedded IPP, network cards with IPP etc. were introduced in the market. After March 2005, PWG continues the IPP work independently and the full-featured network printing protocol, IPP Version 2.0 was published in February 2011, which enables a print client to query a printer for its supported capabilities, features, and parameters to allow the selection of an appropriate printer for each print job. Finally the most popular IPP Everywhere standard came in January 2013. IPP Everywhere standard is a superset of IPP Version 2.0 which allows users to print from Smart phones and Tablets without any Application/Vendor-specific Device Drivers. This standard defines minimum requirements for clients and printers so that PCs and mobile devices can find and print to networked and USB printers without using special software. Printers supporting the IPP Everywhere specification should start appearing early 2014.
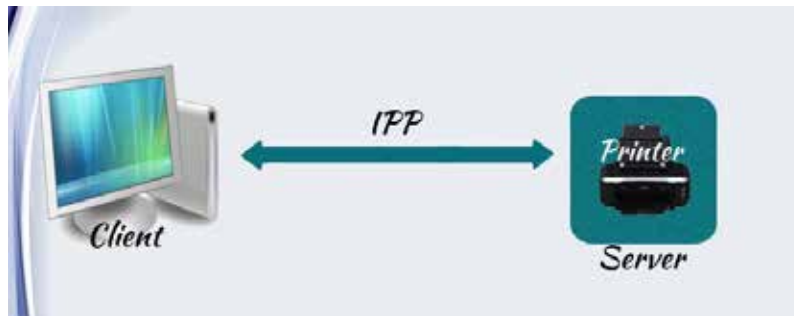

Figure-2: IPP Communication

IPP uses the Client/Server model, where client and server are software entities reside in different hardware environments. The client usually resides in a PC and the server is either embedded in a printer device or resides in a separate print server machine. In IPP, the client always initiates the communication with the server. The client sends requests to the server, which then answers with responses. IPP is independent of operating systems because it is based on web browser and HTTP technology. Any platform capable of supporting a Web browser should be capable of being a Client and, likewise, any platform providing a Web/HTTP server and printing services should be capable of being a Server.

IPP Server contains two types of objects: printers and print-jobs. Different capabilities of the printer and printer status are attributes associated with printer object. Similarly, each job object has a number of associated attributes. The IPP needs to be able to identify printer objects and print-job objects uniquely throughout the Internet. IPP utilizes Universal Resource Identifier scheme (URI) for this.

IPP is able to ensure adequate security protection for materials to be printed by establishing mutual authentication of client & server and mechanisms to protect the confidentiality of communications between client and server.

PWG-IPP workgroup is currently developing standards for IPP-based multi-function services like scanning, facsimile, Cloud-based IPP solutions etc. These will be combined with IPP Everywhere to create the IPP Multifunction specification to support accessing all of the services of a multifunction printer without special software. Future activities of IPP include special authorization techniques, notifications from the server to the client, accounting etc.

Words of Wisdom

If you have a goal, write it down. If you do not write it

down, you do not have a goal -- you have a wish.

- Steve Maraboli

IEEE NEWS
From Around India

IEEE Kerala Section

Congratulations!!!

Prof. V K Damodaran, Life Senior Member and advisor to IEEE Kerala Section has been invited to be a member of the EPICS in IEEE Ad hoc Committee. Prof. V.K.D. shall help in preparing the Road Map for future activities of EPICS for submission to EAB.

Activities

Activity -1
Computer Society

IEEE Kerala Section along with its sister professional societies felicitated the Padma Award winners and the proud GSLV, PSLV team leaders at Trivandrum on 12-05-2014.

IEEE CS Kerala section jointly with Google Developers Group Kozhikode in association IIM Kozhikode E-Cell and IEEE Malabar Subsection hosted Women Tech-makers: Kozhikode 2014. The event featured panel discussions with female technology leaders, tech talks, keynote sessions and provided networking opportunities. This event geared towards increasing visibility, community and resources for technical women in our industry.

Activity - 2
Technical Talk on CYBER LAW AND IT ACT on 25 Mar,2014

Resource Persons: Mr.Ameer K M and Ms.Smitha Nair, Legal Manager, Binani Zinc Ltd.

The session covered the implications of sections/rules in Cyber Law applicable to internet users and   sections which are relevant in IT Act for regular users and also covered Intellectual Property Rights (IPR) relevant to IT users.

Activity - 3
Technical Talk on Natural Language Processing - Challenges

Resource Person: Dr. AmbujaSalgaonkar, Head, Dept of CS, University of Mumbai

Knowledge representation and its interpretation by machine are two important issues in the contemporary world of natural language processing. India has a great tradition of a time tested theories in this domain. Panini's contributions have been recognized by the modern linguistic scholars including Chomsky. There have been attempts to translate Indian heritage models of Natural Language Processing for the modern computer purpose. Dr. Ambuja gave an overview of the concepts and discussed contributions in this domain and   avenues for further research.

Activity - 4
Three day Workshop on **BIG DATA ANALYTICS** (May 5 – 7, 2014)

Venue: Rajagiri School of Engineering and Technology

There were 76 registered participants   for the workshop . The workshop included sessions on Clustered Architecture and MPP Database, Hadoop, SQL on Hadoop, No SQLs, Data Science, Current Trends in Big Data Analytics, Hadoop Implementation in Cloud based system and Impact of BigData on Society. The classes were mostly handled by Industrial Practitioners

Activity - 5
Technical Talk on IPV6

Internet has evolved into an important medium for voice and all type of data connectivity and it has put pressure on IPv4addresses. IPv6 represents one of the most significant technology changes in the history of the Internet. With the grow in number of online users around the world and the proliferation of smart devices, IPv4 exhaustion will become a major information and communications technology issue over the next three years.

Activity - 6
CS Chapter Meet

IEEE Kerala Section Computer Society SB Chapter Meet
10 May 2014

A meeting of CS chairs of all SBs were invited for a Face to face meeting to chalk out the plans for the year 2014. The meeting was held at Hotel Grand Seasons on May 10, 2014 forenoon.

Forthcoming Events

• 2014 National Conference on Communication, Signal Processing and Networking (NCCSN) scheduled during October 2014

• **Annual International Conference on Emerging Research Areas (AICERA) 2014 with special focus on Magnetics, Machines and Drives (ICMMD). More details at** www.aicera2014.ajce.in

IEEE GHTC SAS 2014

UdaySamudra Leisure Beach Hotel, Trivandrum

26-27 Sept 2014

Papers are invited for the IEEE Global Humanitarian Technology Conference – South Asia Satellite 2014 (IEEE GHTC SAS 2014) under the following five tracks:

1. Renewable Energy: solar energy, wind energy, energy from waves, energy harvesting, green technologies, smart grid

2. Health Care Technologies: Biomedical instrumentation, biotechnology, bioinformatics, drug design, Health informatics, Hospital information system, Telemedicine

3. E-Services for the Masses: eGovernance, mGovernance, mobile Banking, mobile micro finance, e-education, electronic personal security

4. Frugal Innovation: Innovation in low cost applications of technology, low cost development, low cost manufacturing, open source hardware and software, crowd sourcing

5. Emerging Technologies for Humanitarian Applications: ubiquitous computing, ubiquitous communication, Internet of things, wireless sensor networks, 3D printing, Big data , cloud computing

Deadline for Full Paper Submission: 30 May 2014

IEEE Global Humanitarian Technology Conference (IEEE GHTC) started in 2011 in Seattle as a flagship conference series, focusing on applying technology to solve the world's most pressing humanitarian and development challenges. The satellite conference (IEEE GHTC SAS) focus on addressing the humanitarian challenges, issues and technology solutions in South Asia.

IEEE GHTC SAS is jointly organized by IEEE Kerala Section and IEEE Region 6 and supported by IEEE

GHTC. The Satellite conference held in Trivandrum, India in August 2013, was a grand success in terms of quality and attendance. The event will be held on 26-27 September 2014 at UdaySamudra Leisure beach hotel & spa, Trivandrum, India.

The Conference Program will include paper sessions, plenary, keynotes and invited talks, poster sessions, tutorials, workshops, NGO meet, student contests and many opportunities for social and professional networking.

Accepted papers presented at the GHTC-SAS Conference, which meet the IEEE Conference Publication Program requirements of IEEE quality review, will be included in IEEE Xplore Digital Library. IEEE reserves the right not to publish any proceedings.

For more details at www.ghtc-sas.org

Sabarinath G
Secretary, IEEE Kerala Section
Senior Member: IEEE | IEEE CAS
Asst. Professor, SoE, Dept. of ECE, SJCET, Palai

H.R. Mohan

New President of Computer Society of India

H.R. Mohan, Associate Vice President (Systems) of The Hindu, takes over as the President of Computer Society of India (CSI) from 1st Apr for the year 2014-15. He succeeds Prof. S.V. Raghavan, Scientific Secretary in the Office of the Principal Scientific Adviser to the Government of India as the new President.

Mr. Mohan has been a member of IEEE since mid 1980s and served IEEE Madras Section as Vice President & apart from editing the IEEE MAS LINK for about seven years & India Council newsletter for about a year till recently. He is also the chair of IEEE CS & IEEE PCS Madras Section. CSI is the largest IT professionals association in India with over 100,000 members and represents India in International bodies such as IFIP, SEARCC, IEEE, IEEE CS, ICANN, BCS etc., Started in 1965, CSI is in its Golden Jubilee year and has played a major role in the introduction of Computers in Indian Industries and Academia. CSI facilitates research, knowledge sharing, learning and career enhancement among all categories of IT professionals and also inspires and nurtures the interests of the student members and help them to integrate into the IT community.

Words of Wisdom

The best remedy for a short temper is a long walk.

-Jacqueline Schiff

INDICON 2014
Emerging trends and innovation in Technology
11th-13th December 2014, Yashada, Pune, India
http://www.indicon2014.in

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Welcome to IEEE INDICON 2014.

INDICON has been the most prestigious conference conceptualized by IEEE India Council in the field of Computer Science and Engineering, Electrical Engineering & Electronics and Communication Engineering, in general. This has been a metamorphic version of Annual Convention and Exhibitions (ACE) which was the annual meeting of IEEE India Council. During ACE2003 it was decided to completely restructure it in form of a conference where India Council would formally meet also. It was renamed as INDICON and the first INDICON was organized by IEEE Kharagpur Section at IIT Kharagpur during 20-22 Dec, 2004. Subsequent INDICON were organized by IEEE Madras Section (11-13 Dec, 2005), IEEE Delhi Section (15-17 Sep, 2006), Bangalore Section (6-8 Sep, 2007), IEEE UP Section (11-13 Dec, 2008), IEEE Gujarat Section (18-20 Dec, 2009), IEEE Calcutta Section (17-19 Dec, 2010), IEEE Hyderabad Section (16-18 Dec, 2011), IEEE Kerala Section (7-9 Dec, 2012) and IEEE Bombay Section (12-14 Dec,2013). Over the past few years, INDICON emerged as a well recognized and an eagerly anticipated event in the country because of its high quality technical sessions and for the networking opportunities it provides. INDICON 2014, which is being organized by the IEEE Pune Section is expected to attract over 500 delegates from all over the country and abroad and will consist of very high quality technical sessions and tutorials.

IEEE Pune Section (R0 01 20) was established on June 26, 2010 with terrestrial boundaries confined to Pune Metropolitan City (Postal Code: 411001 to 411999). The Section falls under the jurisdiction of Asia Pacific Region (R-10) of IEEE. Prior to that it was a subsection of IEEE Bombay Section since June 20, 2003 till its formation. At present, the Pune Section has more than 300 professional members and over 1100 other members, including student members. There are 19 IEEE Student Branches in different Engineering Colleges in and around Pune City.

The Pune Section interfaces with the industries and academia through various technical and humanitarian activities. Section organizes various activities throughout the year, which are helpful to the professional members as well as for student's community for their skill set upgradation. This year, INDICON 2014 is being organized by IEEE Pune Section, at YASHDA,Pune.

Call for Paper
Topics of interest for submission include, but are not limited to:
- Software and Database System
- Cloud and Ubiquitous Computing
- Big data and Data mining
- High Performance Computing
- Information and network security
- Power and Energy
- Emerging trends in Engineering

Important Dates

Call for Papers	: 28 FEB,2014
Submission of Manuscript	: 10 APR,2014
Last date for submission of Manuscript(close)	: 15 JUN,2014
Notification to Authors	: 15 AUG,2014
Registration Deadline	: 15 SEP,2014
Camera Ready	: 01 OCT,2014
Conference Begins	: 11 DEC,2014

Keynote Speakers
- Prof. J. Roberto de Marca
  IEEE President and CEO
- Dr. Toshi Fukuda, IEEE R10 Director
- Dr. Rajkumar Buyya,
  University of Melbourne, Australia
- Dr. Vijay Bhatkar, Fellow IEEE
- Prof. Ashok Jhunjhunwala, IIT Madras
- Mr. Takatoshi Minami, FUJITSU Japan

Software and Database System
Applications of Expert Systems and Decision Support Systems, Data and Information Modeling, Integration, Data Structures and Data Management Algorithms , Database and Information System Architecture and Performance, Data Mining Systems and Algorithms, Data Warehousing, OLAP, Distributed, Parallel, P2P, and Grid Databases, Expert Systems and Decision Support Systems, Information Retrieval and Database Systems, Knowledge Acquisition & Management, Multi-databases and Database Federation, Object, Object Relational, and Deductive Databases, Pervasive Data and Information, Semantic Web and Ontologies, Statistical and Scientific Databases, User Interfaces to Databases and Information Systems, Web Services, Operating system, Multimedia Engineering, Human Computer Interaction.

Cloud and Ubiquitous Computing
Cloud infrastructure, Cloud computing applications, Cloud resource virtualization, Cloud resource management and scheduling, Cloud networking, Cloud storage systems, Cloud security, Cloud application development, Identity management, Cloud application, social, mobile cloud, Cloud migration, Cloud federation, Cloud programming models, Cloud Economic, business, Cloud monitoring, Cloud provisioning, Ad hoc networks for ubiquitous communications, Communication architectures for ubiquitous computing, Context modelling and reasoning, Data management for ubiquitous computing, Energy-efficient and green ubiquitous computing, Green Computing and Power-Aware Middleware, Innovative ubiquitous computing applications, Intelligent Transport Systems (ITS), Internet of Things and Social Web of Things, Middleware for ubiquitous services and applications, Wireless Sensor Networks (WSNs), Multimodal sensing and context for ubiquitous applications.

Big data and Data mining
Big Data Science: Theories, models, algorithms, benchmarking, curation, and methods for understanding big data,Big Data Computing: Infrastructures, tools, programming, architectures, benchmarking, and testing of big data systems using Map/Reduce, Hadoop and others, Big Data Mining: Acquisition, representation, indexing, storage, management, processing, pre-processing and post-processing of big data, Big Data Analytics: Metrics, frameworks, evaluation, tools, analysis, visualization of big data, Big Data Understanding: learning, knowledge discovery, business and consumer intelligence, user behavior, community discovery, Big Data Applications: Industrial and scientific applications of big data such as search, recommendations, business intelligence, marketing, social media, healthcare, good practices and reproducibility, Big Data Privacy and Security: Data privacy enhancing technologies, privacy-preserving computing, risk analysis, modeling, and management

High Performance Computing
High-Performance Computing, Parallel and Distributed Algorithms/Systems, Parallel Languages and Programming Environments, Hybrid Parallel Programming with GPUs and Accelerators, Load Balancing, Scheduling and Resource Management, Resilient/Fault-Tolerant Algorithms and Systems, Scientific/Engineering/Commercial Applications and Workloads, Emerging Applications such as Biotechnology and Nanotechnology, Cluster, Cloud, and Grid Computing, Heterogeneous Computing, Interconnection Networks and Architectures, Scalable Servers and Systems, High Performance/Scalable Storage Systems, Power-Efficient and Reconfigurable Architectures, Compiler Technologies for High-Performance Computing, Software Support and Advanced Micro-architecture Techniques, Intelligence and optimization between clouds and CPS, Languages and Compilers for High Performance Computing, Parallel and Distributed Software Technologies, Embedded Systems, Peer-to-peer Computing, Web Services and Internet Computing, Utility Computing, Performance Evaluation and Measurement, Tools and Environments for Software Development, Distributed Systems and Applications, High-performance Scientific and Engineering Computing, Database Applications and Data Mining, Biological/Molecular Computing, Collaborative and Cooperative Environments, Mobile Computing and Wireless Communications, Pervasive/Ubiquitous Computing and Intelligence, Autonomic, Reliability and Fault-tolerance, Multilingual computing.

Information and network security
Intrusion detection and prevention, Smart grid security, Mobile security, Web Security, Cloud security, Biometrics, Malware analysis and prevention, Cyber forensics, Honeypot technologies, Privacy and privacy preserving algorithms

Power and Energy
Electrical machines, power electronics, power systems, control and testing techniques, renewable energy systems (fuel cells, PV, wind, small hydro etc), smart grid, microgrid, energy storage, wide area monitoring, protocols for industrial systems, Energy efficient algorithms.

Emerging trends in Engineering
Robotics, Image Processing, Embedded Systems, Mobile Computing, Data Mining & Data Warehousing, Software Engineering & Testing, Operating System, Analysis & Design of Algorithm, Computer Architecture, Computer Networks, Artificial Intelligence, Grid Computing, Hybrid Databases, Multimedia Applications, Neural Network, Virtual Reality, Web Crawlers, Wireless/Mobile Communications, Electrical and hybrid vehicle, Engineering innovation for healthcare system, Technology to Bridge Rural and Urban Divide, IOT and Cyber Physical System

Paper Submission Format : Papers for both oral and poster presentations should conform to the IEEE format and specifications. All submissions must be in English only. Authors are invited to submit full paper (Maximum 6 pages, double-column A4) as PDF using the IEEE templates. The IEEE paper template can be downloaded from the link given below. http://www.ieee.org/conferences_events/conferences/publishing/templates.html

Paper Submission Details: Authors are invited to submit papers in electronic format through Easy Chair.

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Contacts: Mr. Gorakhnath Ghadage – Secretary, IEEE Pune Section Email: info@indicon2014.in M: +91 9850445248

CVR COLLEGE OF ENGINEERING

Ibrahimpatnam, Hyderabad, AP-501510

WOMEN'S DAY CELEBRATIONS

This event was celebrated on March 7th, 2014, to show the respect towards women and to encourage women in all fields in their career.

Dr. A. Swarna Bai, Scientist 'E', RCI, Hyderabad, Chair person-WIE HYD Section, Mrs. Sujana Cherabuddi, founder, Cherabuddi Education society, Dr. K. S. Nayanathara, HOD ECE Dept., CVRCE and Dr. A. D. Rajkumar, Dean -Academics of CVRCE participated.

Presentation by Dr. A. Swarna Bai focussed on the "career prospects of women in engineering". She also spoke about the growth of a woman in society despite the disparities she has to face in day to day life. She encouraged all the girl students and the lady faculty to utilize their time wisely and achieve the top positions in their respective fields.

Mrs. Sujana Cherabuddi spoke about polishing their leadership qualities and discussed about some of the forums which can help the students in public speaking. She also stressed on learning with heart and not just for the sake of a degree.

Dr. K. S. Nayanathara spoke about some of the great women like Ada Lovelace, Grace Hopper etc. Dr. A. D. Rajkumar encouraged women to aim sky high.

The students have also collected donations and also with the help of the college management were able to provide some of the necessary amenities to the girls in need of Vaidehi ashramam, a home for destitute girls.

The students gave a short presentation about some of the inspirational women in history. This was followed by cultural programs through which they have conveyed a beautiful message about women conveying that women will not tolerate the violence against them anymore and fight against it to achieve their goals. These programs really showcased the young and creative minds of the generation.

Left to Right: Ms. Sruti. P. Chairperson WIE SB CVRCE Mangalpally, Mrs.Sujana Cherabuddi Founder of Cherabuddi Education Society, Dr.A.Swarna Bai Chairperson WIE AG IEEE Hyderabad section and Scientist 'E', RCI,DRDO,Hyderabad, Dr.K.S.Nayanathara HOD ECE Dept. CVRCE Mangalpally, Dr.A.D.Rajkumar Dean - Academics CVRCE on the dais.

Chief Guest, Dr.A.Swarna Bai Chairperson WIE AG IEEE Hyderabad section and Scientist 'E', RCI,DRDO,Hyderabad,handing over a cheque for the girl's orphanage.

Report on HMR Industrial Visit

IEEE Women In Engineering (WIE) Affinity Group of Hyderabad section organized an Industrial visit to Hyderabad Metro Rail yard at Nagole, Hyderabad on 9 January, 2014 from 09:00 A.M. to 05:00 P.M. Its main aim is to provide students with an opportunity to learn practically through interaction and helps them gain first hand information regarding the functionality of industry. 32 students from 9 Engineering colleges from Hyderabad and Warangal and 3 professionals attended this industrial visit.

The students practically experienced the functioning of the Industry and various departments under it. They were taken to the construction site and were explained its working. This also enabled them to get insight regarding the internal working environment of the industry and how a company functions, as well as useful information related to the practical aspects of the educational course which cannot be visualized in class room lectures and promoted interaction and networking among students and professional members. In all, the entire visit was described as interesting and exciting by both the students and faculty and wished for more such visits in the future. This event was coordinated by Dr.Y.Vijayalata, Dr.A.Swarna Bai.

Report prepared by:

S.Madhuri, VBIT Ghatkesar

John Benedict, VBIT Ghatkesar

Left to right : WIE student members with Dr.Y.Vijayalatha Chair WIE AG IEEE Hyderabad section and Dr.Swarna Bai Arniker, Vice-Chair, WIE AG IEEE Hyderabad Section and Scientist 'E', RCI, DRDO, Hyderabad at Hyderabad Metro Rail campus,Uppal, Hyderabad organized by WIE AG IEEE Hyderabad section

IEEE HYD WIE Affinity Group - ISTRAC INDUSTRIAL VISIT

As a part of IEEE technical tour program, IEEE Hyderabad WIE Affinity Group has organized an industrial visit to ISTRAC (ISRO) - Bangalore and two more organizations from 19th February, 2014 to 23rd February, 2014. This industrial visit offered the grand opportunity to practically gain knowledge in power and automation technology, robotics and space technology areas. The visit also included tourism places in Bangalore and Mysore. This is mainly organized to promote networking among students of different places bringing them together. Industrial visit also has other benefits, it would impart students with technical knowledge and field experience of the things which correlate to and supplement the content being taught in class rooms. 55 members attended the tour. Registration Fee was Rs.3500/- for four days.

The students were taken to various places which included Lalbagh Gardens, Bull Temple, Iskcon Temple, Srirangapatnam Temple, Tippu Sultan Palace, Maharaja Palace, Brindavan Gardens, Visvesvaraya Museum and Industrial visits to ABB and ISTRAC.

The Coordinators from WIE AG, IEEE Hyderabad Section were Dr.Y.Vijayalatha, Chair WIE AG, Dr.A.Swarna Bai, Vice - Chair, WIE AG, IEEE Hyderabad Section and Scientist 'E', RCI, DRDO, Hyderabad

The students had a great experience and wished to have many more interesting and educative Industrial visits.

Left to Right: All the IEEE Volunteers at ABB, Bangalore conducted by WIE AG IEEE Hyderabad section

Report on INTERNATIONAL WOMEN'S DAY CELEBRATIONS

International Women's Day organized by WIE AG, IEEE Hyderabad section on 8th March, 2014 at VBIT Ghatkesar aims at empowering girls technically and promotes networking among the student members belonging to different colleges. The number of participants were 104 out of this 24 were IEEE members; 80 non IEEE members.

Dignitaries such as Smt.Sharadha Prabhakar, Scientist 'F', ASL, DRDO, Hyderabad, Commander Sudarshan Chakrapani, Vice President marketing, Tech Mahindra, Sri.Madhav Negi, Associate Director, Solutions with Consulting group, Computer Sciences Corporation, Sri.K.Sita Rama Rao, Scientist 'F', RCI, DRDO, Hyderabad, Dr.A.Swarna Bai, Chairperson, WIE AG, IEEE Hyderabad Section and Scientist 'E',RCI,DRDO,Hyderabad, Mr.Sahbaan Ahmed Khan, Section Student Representative (SSR 2013), IEEE Hyderabad Section, Ms. Preeti Kovali, Chairperson, IEEE Young Professionals, IEEE Hyderabad section, Ms.Sowmya Mekala, Secretary, WIE AG, IEEE Hyderabad section attended the International Women's Day celebrations and inspired students with their interactive and educative sessions. Sessions such as "How to face an Interview?" which was a role play and interactive session followed by "Quality & Reliability in Electronic Systems" created awareness and imparted practical as well as technical knowledge of various aspects unknown to the students. Apart from that, there were many fun filling and informative sessions including Poster presentation. The event concluded by giving prizes to poster presentation and Online Quiz winners by Dr.A.Swarna Bai Chair WIE AG, IEEE Hyderabad Section and Scientist 'E', RCI, DRDO, Hyderabad and certificates to all student participants

On the eve of the International Women's Day, WIE e-NEWS LETTER "WIE-ZINE" was released by the Dr.A.Swarna Bai, Chairperson of WIE AG, IEEE Hyderabad Section and Smt.Sharada Prabhakar, Scientist 'F', ASL, DRDO, Hyderabad.

Report prepared by:

S.Madhuri, VBIT Ghatkesar

S.Yamini, VBIT Ghatkesar

Left to right : (WIE Volunteers) V.Lokesh kumar, Charishma Reddy, Lavanya, Bhargavi Reddy, Rama Devi, Swathi, Mounika, Mrs. Sharadha Prabhakar, Scientist 'F', ASL, DRDO, Hyderabad, Dr.A.Swarna Bai, Chair, WIE AG, IEEE Hyderabad Section and Scientist 'E', RCI, DRDO, Hyderabad, Mr.Sita Rama Rao, Scientist 'F', RCI, DRDO, Hyderabad, Mrs. Ch.Suneetha, Branch Counselor, IEEE-VBIT SB, S.Madhuri, Anupriya, Durga Bhavani, S.Yamini, Srujan, Vamsi Krishna, John Benedict

INAUGURATION OF WIE CHAPTER IN K. L. UNIVERSITY

IEEE Women in Engineering (WIE) is the largest international professional organization dedicated to promoting women engineers and inspiring girls around the world to follow their academic interests to a career in engineering.

KLU IEEE Student Branch was established on 4th June, 2011 with professional and student members. Student branch has started its activities for retention of women in technical disciplines by establishing a WIE Student branch from June 2012. The WIE AG chapter has been officially inaugurated by Mrs. Kanchanalatha, Secretary, K.L.University on 21st September, 2013. 130 students of various colleges attended the inauguration.

Dr.R.Sreehari Rao, (Vice Chancellor, KLU), Dr. N. Rangaiah, (Registrar, KLU), Dr. A. Ananda Kumar (Principal, KLU), Dr.M.Venu Gopala Rao, (IEEE KLU SB Branch Counselor) also addressed the gathering. The Leaders Congress has begun with a Key note lecture by Dr.A. Swarna Bai, Scientist 'E', RCI, DRDO, Hyderabad and Vice-Chairperson Women in Engineering Affinity Group, IEEE Hyderabad Section. She elucidated the role of women in present day world and inspired the gathering with innovative thoughts.

WIE Chapter counselor, Mrs.S.V.N.L Lalitha (Assoc. Prof) conveyed Vote of thanks to all the speakers and delegates. The event remained successful in inducing the culture of Women Entrepreneurship amongst students and delegates.

Left to right : Dr.M.Venugopala Rao, KLU IEEE SB Counsellor, Dr.N.Rangaiah, Registrar, KLU, Dr.A.Ananda Kumar, Principal, KLU College of Engineering, Mrs.K.Siva Kanchana Latha, Secretary, KLEF, Dr.Swarna Bai Arniker, WIE Vice-Chair, Hyderabad Section, Mrs.S.V.N.L.Lalitha, WIE faculty Chair, KLU

Report of Online Quiz

WIE AG, IEEE Hyderabad section conducted Online Quiz on Internet encouraging students to test their technical and general knowledge. Its main aim was to involve students of different colleges and spread wide the activities of WIE Hyderabad section. The online quiz was hosted at http://hyderabad.r10sac.org/online-quiz on 27 February, 2014 from 9 AM to 9 PM. Total participants were 226 out of which 97 were IEEE members. Time limit for the Quiz was 30 minutes. Total 3 sets with 100 questions each were prepared. 100 questions were assigned to the system at different time slots in the day from which 30 questions were randomly displayed whenever a student registers to take the test. The results of the quiz were announced and the participants were given their participant certificates through mails.

It got a huge response and involved the participation of students of different colleges. Three winners were selected based on their performance and were given IEEE goodies on International Women's Day Celebrations at VBIT, Ghatkesar on 8 March, 2014 by Dr.A.Swarna Bai, Chair, WIE AG, IEEE Hyderabad section, and Scientist 'E', RCI, DRDO, Hyderabad The volunteers for this online quiz were Ms. S.Madhuri, Vignana Bharathi Institute of Technology, Ghatkesar and Ms.Priyanka Shirodhkar, Methodist college of Engineering, Hyderabad.

Report Prepared By: S.Madhuri, VBIT

VAAGDEVI COLLEGE OF ENGINEERING

Bollikunta, Warangal, AP-506005

WOMEN IN ENGINEERING AFFINITY GROUP INAUGURATION

Women in Engineering Affinity Group was inaugurated on 29th March 2014 at Vaagdevi College of Engineering, Bollikunta, Warangal. Forming an affinity group is the best way to interact and share information with Young Engineers. 200 students attended the Inauguration, out of which 80 were IEEE Members.

The session was started with a keynote address by **Dr.Y.Vijayalatha**, Student Activity Chairperson IEEE Hyderabad section on "**Carrier Guidance**". The guest of honor **Dr.A.Swarna Bai**, chairperson WIE Affinity group IEEE Hyderabad section addressed the gathering on "**Research opportunities for women engineers**". The session was then followed by another guest lecture by **Dr.M.V.Krishnarao** Secretary COMSOC/SP Joint chapter IEEE Hyderabad section given a wonderful lecture on "**Role of gender on human capabilities and thinking-A scientific study**". The purpose of the event was to elevate, inspire the women towards professionalism. Inspiring talks and educative sessions by the professional members encouraged the students to look over other aspects of education and after education. This also enabled them to build their personality. The VCE-IEEE students presented posters on Women in Engineering.

Report prepared by **B. Sreedevi, Advisor WIE AG,Vaagdevi College of Engineering**

Left to right : Y.Vijayalatha, Student Activity Chairperson, IEEE Hyderabad section, Dr.M.V.Krishnarao, Secretary COMSOC/SP Joint chapter, IEEE Hyderabad section, Dr.A.Swarna Bai, Chair, WIE AG, IEEE Hyderabad Section and Scientist 'E', RCI, DRDO, Hyderabad, Dr.K.Prakash, Principal, Vaagdevi college of Engineering, Warangal, Dr. Ch. Sathaiah, Principal, Vaagdevi college of Engineering, Warangal, B. Sreedevi, Advisor WIE AG, Vaagdevi College of Engineering, Warangal