

March 2015

IEEE

REGION 10

NEWSLETTER

Editor: Nitin Keshav, IEEE R10 ECIM

www.ieeer10.org/newsletter

Editor's Note

Dear IEEE R10 members,

Its been 8 years and the IEEE Newsletter continues to pave the way for members to keep in touch with the happenings within the R10 community. This issue is the first of this year and I would thank all of the volunteers who have contributed articles, ideas, stories, summaries, event recaps, and their time to make this newsletter happen.

This year we have launched the online magazine with at www.ieeer10.org/newsletter to encourage members to write and put forth their views on topics of importance in the fast evolving technology domain. So, this platform would become R10's news and views portal going forward. You wouldn't have to wait for newsletter to drop into your mailbox, you just have it bookmarked and we will ensure it's updated daily. So, if you have a research summary or an idea that might provide an insight into your own work or wish to report activities / news from your section, we are here to listen. Email us with you write up and spread the word!

This year we plan to talk about the topics like robotics, nanobots, IoT, wearable technology, humanitarian technology, smart cities and many more. We urge you to use this publication to help you realize your tremendous potential and send us your articles.

Keeping the vision of R10 Director, Mr. Ramakrishna Kappagantu and the Execom in making R10 community vibrant and providing means to collaborate and stay connected, we have invested in the online portal. We are excited to bring in the "new" version of the R10 Newsletter and with the new format, comes our R10 website, a Facebook page and even a Twitter feed! I hope you enjoy the new format! Please feel free to send any suggestions my way!

Nitin Keshav
IEEE R10 ECIM

Delhi Section hosted the 2015 International Conference on Signal Processing and Integrated Networks (SPIN 2015)

The second International Conference on Signal Processing and Integrated Networks was held on 19-20 February at the Amity University Campus, Noida Delhi NCR, India.

Overall this conference had 35 sessions managed by expert session chairs. Five parallel sessions were run for the contributed papers. SPIN 2015 brought together scientists, academicians and industrialists working in the field of Signal Processing and Integrated Networks to discuss new ideas and promote research work.

The invited talks were delivered by researchers from across the world from countries like United States, Canada, Japan, U.K, France.

The conference concluded with a promising valedictory function on 20 February 2015.

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Bangalore Section hosts a gala 2015 AGM for its members

IEEE Bangalore Section AGM was held on Feb 15, 2015 at Royal Orchid Resort & Convention Centre Bangalore. He also shared his planes about R10 in detail.

During the awards Ceremony, Prof. KVS Hari was felicitated for his Elevation to Fellows Grade. Best Student Branch-Small Award, Best Student Branch-Large Award, Best Branch Counsellor Award, Best Student Branch Website Award, Best Student Volunteer Award, Outstanding Section Volunteer Award, and Publication to individual Members for publishing their paper in the IEEE journal and the Patent Award were distributed during the event.

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Bombay Section's mega event – INTELECT 2015

Intelect 2015 was organized under the unique partnership between the IEEE and IEEMA . Over three days, eight plenary speakers together with an array of international and Indian experts led the audience through the state of the art on “Intelligent Electricity” around four parallel tracks: H3O – Smart Home, Hospital, Hotel & Office Microgrids, Rural Electrification and Renewables Smart Cities Humanitarian Impact of Smart Electricity.

The gigantic expo alongside the conference featured many multinationals and organizations like Schneider, Crompton Greaves, Larsen & Toubro with impressive exhibits.

IEEE President Howard Michel and senior leaders from various IEEE Societies shared the dais along with ministers from the government of India. IEEMA has a reputation of organizing Elecrama and other mega events in India as well.

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Indonesia Section hosts IEEE Distinguished Lecture on Photonic Network

The IEEE R10 Industry Relations initiated the IEEE Distinguished Lecturer on Photonic Network at the Telkom University, Bandung, and On 21 February 2015.

The topics discussed were an overview of the Photonic Network Research Institute, seamless convergence of optical and radio technologies, and high functional electrical-to-optical conversion.

Dr. Tetsuya Kawanishi, Director of the Lightwave Devices Laboratory, NICT, presented the progress of the photonics technology to realize high-speed and high-precise signal transport for future networks.

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Malaysia section hosts the annual appreciation award night

In conjunction with the 25th Annual General Meeting, IEEE Malaysia Section organized the IEEE Malaysia Section Annual Appreciation and Award Night on the 17th January 2015 at Palm Garden Hotel, IOI Resort, Putrajaya, Malaysia.

Special awards were given to the most active chapters and student branches for the year 2014.

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Malaysia Section hosts a mini Workshop on “Embedded Systems and Internet of Things”

The IEEE Consumer Electronics Society Malaysia Chapter had a lot to offer this year especially for young professionals. As a flying start for 2015, CESoc Malaysia offered a one-day mini workshop on “Embedded Systems and Internet of Things(IoT)”, in association with Faculty of Computer Science and Information Technology (FSKTM), Universiti Putra Malaysia on 12th March 2014.

During the workshop, participating students worked on specific embedded system projects that demonstrated various IoT services consumer electronics. Participants were encouraged to think, innovate and develop their own IoT projects using available tools.

During the workshop, participants were introduced to Arduino, Raspberry Pi and bespoke embedded boards as well as to using service frameworks for IoT based analytics.

CESoc Malaysia plans to organize more such sessions in the near future.

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IEEE MP-Subsection concludes a two-day Seminar on “How to organize IEEE Conferences”

The IEEE MP-Subsection has been regularly involved as Technical Co-sponsor for the conferences organized by non-IEEE entities in the subsection. Hence in order to increase the frequency of conferences, the MP subsection organized a two-day Seminar at Sri Aurobindo Institute of Technology Indore on 30 – 31 August 2014, on “How to organize IEEE Conferences.”

This exercise also saw participation from two experts, viz. Suryanarayan Dulla, from Bombay Section and Prof. Durgesh Mishra, Immediate Past Chairman IEEE MP Subsection.

Over forty participants, including faculty from different institutes of Madhya Pradesh were benefitted by the event.

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Report: Queensland Section of the IEEE

The Queensland Section, commemorating its 30 years of existence held various events on 18th February 2015.

Their first Chairs – Professors David Thiel, Miles Moody and Matt Darveniza, spoke about their experiences from the mid-1980’s to the present

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Freeze frame workshop by IEEE karachi section

IEEE WIE marked the beginning of its tenure with a cocktail workshop aimed to enhance the budding engineers’ visual communication skills, on the 3rd of February 2015.

Bilal Awan conducted an interactive session involving pictures, tongue twisters and IEEE gifts which left the participants energized.

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Awareness program on engineering education for school students

As a part of humanitarian activities, IEEE SB of Sri Ramakrishna Engineering College in collaboration with CTS organized an “OUTREACH” program where the Student Members visited a government run school and spent ample time with them.

Under this initiative the students and volunteers organized a one day visit to Parli, near Piloor Dam on 7, February 2015.

There were about 21 student members who attended this program along with the employee volunteers from various MNC such as CTS, TCS etc.

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Pakistan Workshop on “Power Electronics with Renewable Integration”

A workshop was organized by the Faculty of Engineering, International Islamic University, Islamabad, in collaboration with IEEE IIUI Student Branch at the Faisal Mosque campus on December 20 & 21, 2014.

The workshop, conducted by Prof. Nauman Ahmad Zaffar, LUMS and Dr. Syed Raza Kazmi, Assistant Professor, SEecs, NUST, covered the fundamentals of Power Electronic converters.

The focus was on training the attendees on how to approach this broad area to make tangible links between various electrical engineering domains with clarity. Integration challenges of Solar PV, Wind, Micro-Hydro and Hydrokinetic generation were discussed with specific examples from different application areas.

With electric power becoming a basic necessity, the main objective of this workshop was to provide a platform to researchers and industry participants to discuss the issues surrounding power electronics and create awareness amongst students about the scope of Power Electronics and its application in renewable integrations technologies.

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IEEE- JMI Student Branch starts off the year with ENCOMIUM

The annual techno-cultural fest of IEEE JMI ‘ENCOMIUM’ was held on the 14th and 15th of February 2015.

The fest was a perfect amalgamation of technical, cultural and Sporting events, some of which were Technical Paper Presentation, IEEE Smart City Challenge Robotics competition, Gully Cricket and the Sports League.

The IEEE JMI annual magazine – Encore was also released during the opening ceremony followed with opening remarks by Maudood Ahmed, IEEE JMI student chair.

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KMEA engineering college conducts collage contest on cancer awareness

The IEEE Student Branch of KMEA Engineering College organized a ‘Collage Making’ competition for the students of the college on 9th February, 2015, to commemorate the World Cancer Day.

World Cancer Day is marked on February 4 to raise awareness of cancer and to encourage its prevention, detection, and treatment.

The college also runs a palliative care unit which works to provide relief to those suffering from various illnesses.

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IEEE- JMI Student Branch hosts TISP

The “IEEE Teacher In Service Program Training Workshop” was successfully held at Jamia Millia Islamia New Delhi. This workshop provided a platform for learning new methodologies for teaching the High School students. The workshop was conducted by Prof Mini S Thomas and major resource person was Mr. Ranjit Nair from Kerala. 31 teachers of Delhi-NCR schools participated in the Workshop.

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MNNIT Allahabad hosts 3rd International Conference on Power, Control and Embedded Systems

Co-sponsored by IEEE Joint Societies Chapter of (IE/PEL/CS), technically sponsored by IEEE Uttar Pradesh Section and financially supported by TEQIP-II, MNNIT, the Department of Electrical Engineering, Motilal Nehru National Institute of Technology Allahabad, India, organized the 3rd International Conference on Power, Control and Embedded Systems from Dec. 26-28, 2014.

The theme of the conference was *"The role of power, control and embedded systems in sustainable society"*. Several keynote speakers delivered their speech at the conference.

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Student branch activity of SREC, Coimbatore

The IEEE Student Branch of Sri Ramakrishna Engineering College organized a National Level Technical Expo – Techkosmos' 15 on 13th February 2015. The event was inaugurated by Dr.K.Porkumaran, Principal, Dr.N.G.P. Institute of Technology, Coimbatore.

The paper presentation competition saw representation from over 30 teams propounding their ideas that reflected the ways of advancing technology for humanity.

The IEEE Student Branch Awards "Duke of TECHKOSMOS 15" was given to S. Karthikeyan, B. Aadhirai, G.S. Prithvee, D. Praveena, and B. Krishna Kumar, who played a key role in organizing Techkosmos'15.

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IEEE XPLORE'15 Seminar by IEEE NED Student Branch

The student branch of IEEE in Ned University of Engineering and Technology keeping with its tradition in bridging the gap between corporate and academia organized its opening ceremony with 'IEEE Xplore' seminar. The event was held on the 30th of January 2015.

The seminar was aimed at conveying to the students, the benefits of being a part of IEEE and how it would help the beginners in the corporate world post-graduation. The session was helpful for the final year and the third year students.

IEEE ExeCom members invited Miss Ifra Moid, chairperson of IEEE WIE NED SB who presented the activities conducted by IEEE WIE. She encouraged women to join engineering as a profession and pursue such career.

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NIT Calicut, Kerala inaugurates IAS student chapter

IAS student chapter of National Institute of Technology, Calicut was inaugurated by Dr.Tomy Sebastian, President elect IEEE IAS on 20th February 2015.

Mr. Srikanth VP, chair, IEEE IAS chapter development committee addressed the students and discussed the various opportunities and programs offered by IAS.

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IEEE Malaysia volunteers for flood relief mission

IEEE UKM Student Branch, IEEE Malaysia Section and IEEE Malaysia COMSOC/VTS Joint Chapter organized a volunteer team for a flood relief mission to the town of Gua Musang, Kelantan, Malaysia from 8 to 11 January 2015.

Hundreds of homes were destroyed by the flood water in the rural towns including Gua Musang and Kuala Kerai. Many individual members also donated a total of RM420 under IEEE Malaysia's donation drive.

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Rajshahi University Bangladesh conducts RoboTour & Programming Contest

The IEEE RUET Student Branch and Department of Electrical & Electronic Engineering, Rajshahi University of Engineering & Technology conducted a RoboTour and a Programming contest on 19-20 March, 2015 at RUET.

The two day event provided networking and development platform for the engineering students who are interested in robotics and programming. Seminars on various topics like 'Introduction to Robotics' and 'Basic of FPGA' were also held on this two day event.

The participants were given a task of finishing an arena with their line following robot.

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2015 International Conference on Computational Intelligence & Communication Technology (CICT-2015)

The 2015 International Conference on Computational Intelligence & Communication Technology was held on 13-14th February at the ABES Engineering College, Ghaziabad, India. This conference was technically co-sponsored by IEEE UP Section.

There were sessions on Image Processing, Communication, Signal Processing, VLSI in Signal Processing and Communication, Networking & Security, Antenna, Video Processing, Biomedical Signal Processing, Embedded system & Signal Processing, Antenna, Robotics & Signal Processing Wireless Sensor Networks etc. The invited talks and paper presentations were delivered by researchers from across the world.

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IEEE ComSoc DL Tour to New Zealand 2014

As a part of the IEEE ComSoc Distinguished Lecturer (DL) tour to NZ, Professor Ekram Hossain (University of Manitoba, Canada), on 13th November 2014, spoke on aspects of "Evolution towards 5G Cellular networks: radio resource and interference management issues". Around 40 people from within and outside the University attended the talk. Professor Hossain focused on the vision and requirements for 5G cellular networks, device-to-device communications, enabling technologies for 5G networks, and interference management challenges in 5G multi-tier networks.

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IEEE SB Sukkur IBA, Pakistan: Sukkur IBA first internal competition SIBACOM 2015

SIBACOM 2015, was organised by the IEEE Sukkur IBA student branch on 16th and 17th March. The main purpose of this event was to bring the students from three different streams together to share their work and ideas and encourage entrepreneurship. Sukkur IBA SB got an overwhelming response in terms of registrations. More than 300 registrations were done and amongst them 50 teams participated in hardware competition, 12 teams participated in the software competition and 17 teams participated in the innovative business idea competition.

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International Conference on Recent Developments in Control, Automation and Power Engineering (RDCAPE 2015)

The International Conference on Recent Developments in Control, Automation and Power Engineering RDCAPE-2015 was organized based on the theme "Smart Energy Solutions towards Green Power, Control & Instrumentation for Reliable Electrical Systems".

A strong panel of 123 academicians from reputed universities of India and abroad reviewed 239 papers out of which 95 papers were accepted for the conference.

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IEEE R10 WIE Updates : News and Highlights

Initiatives organised by the IEEE WIE Affinity Group, MJCET Student Teacher and Research Program

The IEEE WIE Affinity Group at MJCET organised “STAR”-a one week program at Safdaria Girls High School, Humayun Nagar, Mehdiapatnam, from 3rd November 2014 to 10th November 2014.

As a part of this initiative, the volunteers helped students from classes 7th to 9th to understand English more effectively (as they belonged to Urdu medium). About 30 students participated.

The STAR program was a transforming event not only for the students at Safdaria but also for the volunteers as it helped them in doing their bit for the betterment of society.

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Science Technology Engineering Mathematics Program

The IEEE WIE also conducted the event “STEM”- a one week program at Safdaria Girls High School, Humayun Nagar, Mehdiapatnam, from 3 November 2014 to 10 November 2014.

As a part of this initiative, the volunteers introduced the students of class 5 and 6 to STEM to encourage them to take up engineering as their profession.

Post the event, most of the students expressed their desire of becoming good women engineers and also gain technical knowledge.

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Initiatives organized by IEEE WIE NEDUET

Student Branch of IEEE-WIE at NEDUET conducted an awareness session IEEE Xplore 2015 on 30th January, 2015 in association with PES in Karachi, Pakistan to familiarize about the women contributions in the field of Engineering.

Ms Nimrah Hashmi, the former Chair of WIE at NEDUET graced the session as Guest-of-honor stressing on the accomplishments of WIE.

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From the Desk : IEEE R10 Awards

The Region 10 annual meeting banquet was held on the evening of Saturday, 7 March 2015. The award ceremony was coordinated by Dr Zia Ahmed, R10 Awards Coordinator. R10 Director Mr Ramakrishna Kappagantu conferred the following awards to proud recipients

R10 Distinguished Section Awards for 2013

These awards were given for Section activities in 2013, based on the assessment of annual reports in 2014. The award consists of a certificate and cash bonus of USD 1000 for each winner. The winners are:

- 2013 R10 Distinguished Large Section Award to Bangalore Section
- 2013 R10 Distinguished Medium Section Award to Pune Section
- 2013 R10 Distinguished Small Section Award to Northern Australia Section

R10 Outstanding Volunteer Award for 2014

The R10 Outstanding Volunteer Award aims to recognize those volunteers who have made outstanding contributions to a particular Region 10 Section. The winners are:

- Mr Ashok D Jagatia (Bombay Section, India)
- Mr Nirmal-Kumar C. Nair (New Zealand North Section) and
- Mr Graeme B Gwilliam (New South Wales Section, Australia)

R10 Section WIE Affinity Group Awards for 2013

This award is given for two categories, one for the Section WIE AG and the other for the Student

Branch WIE AG. It is for activities conducted in 2013, based on the assessment made in 2014. The award consisted of an award certificate and cash bonus of USD250 for each category. The winners are:

- 2013 R10 WIE Section Affinity Group Award to Kerala Section WIE AG
- 2013 R10 WIE Student Branch Affinity Group Award to Netaji Subhas Institute of Technology (Delhi Section, India)

2014 R10 WIE Volunteer Award

This award is given for two categories, one to a professional and the other to a student volunteer. The award consists of an award certificate for each winner. The winners are:

- Professional R10 WIE Volunteer: Ms. Sarada Jayakrishnan (Kerala Section, India)
- Student R10 WIE Volunteer: Ms. Rajlaxmi Chouhan (Kharagpur Section, India)

2014 R10 Education Activities Awards

2014 R10 EA Award on Major Educational Innovation

- Dr. Rosanna Chan, Hong Kong Section
- Prof. Yatindra Nath Singh, Uttar Pradesh Section

2014 R10 EA Award on Continuing Education

- Prof. VK Damodaran and Mr. Ranjit Nair

On this occasion a 25th anniversary banner was also presented to the Gujarat Section.

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Report prepared by Dr Zia Ahmed, R10 Awards & Recognition Coordinator (2015)

Interview – Prof. Dr. Mamun Bin Ibne Reaz, Malaysia Section, IEEE Senior Member

Mamun Bin Ibne Reaz is a Senior Member of IEEE and currently a Professor in the Department of Electrical, Electronic and Systems Engineering, Universiti Kebangsaan Malaysia.

Dr. Reaz has vast research experience in Japan, Italy and Malaysia and has published extensively in the area of IC Design and Biomedical application IC. He is the author and co-author of 200+ research articles in the field of design automation and IC design for biomedical applications. He is also the recipient of more than 50 research grants (national and international). He speaks to representatives of the IEEE Malaysia section in an exclusive interview.

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**Do you have an idea which can improve
the quality of life of people?**

All IEEE Young Engineers' Humanitarian (AIYEHUM) Challenge 2015



Project Funding of 500 \$

The short-listed project teams will be given a grant of up to USD 500 for prototype development and completion of the project.



Mentorship & Support

The short-listed project teams will be provided mentorship and support for the development and completion of the project.



Prize & Recognition

Winners will be awarded with prizes and certificates in a suitable ceremony. Chance to present at R10 Conference or Meeting with partial funding.

For more details and to apply:
bit.ly/aiyehum

Deadline for Proposal
25 May 2015

✉ aiyehum2015@gmail.com

IEEE Region 10 HTAC

IEEE R10 : Upcoming Events

TENCON 2015, Macau 1- 4 November 2015



IEEE R10 SYW Congress Sri Lanka 2015



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