August 2015

IEEE
REGION 10
NEWSLETTER

Editor's Note

Dear IEEE R10 members,

It's been a momentous year for the R10 Newsletter team. With the newsletter magazine going online, the benefits of taking news to members quickly and being able to read it on demand has made a lot of difference. We are quite thrilled by the positive outcome as the number for entries to publish articles have significantly gone up and the engagement on this newsletter site has been quite humungous. Online magazine can be accessed at www.ieeer10.org/newsletter.

We continue 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!

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!

The newsletter and the online magazine would not have been possible for the relentless efforts of the newsletter team. I take this opportunity to thank the team for their efforts and continued support.

Adib Kabir Chowdhury
Dianne Cheong Lee Mei
Nayeem Abrar Ahmed
Farhana Choudhury
Hosain- Musanna
John Benedict
Anindo Saha

Nitin Keshav
IEEE R10 ECIM

Directors Message

Dear IEEE R10 members,

As we approach the end of the year, I take this opportunity to briefly outline the programs and initiatives of R10 and how we have been able to deliver on our agenda and plans.

It was heart wrenching when the disaster struck Nepal and we at R10 were quick to respond to reach out to our members and society alike. My support reaches out to all those affected by the disaster and contributions by the IEEE volunteers. We had Initiated distribution of smart village kits and funds. We will share a full report on the activities we undertook.

As its that time of the IEEE calendar where the elections are around. Request all members to vote in IEEE Elections. Please visit the elections link here. I'd encourage all members to exercise their vote and there are prizes to be won for the highest voting section in line with last year. The ballot accepting window closes on October 1st, 2015.

As we prepare for a series of celebrations across R10 to celebrate our Golden Jubilee of inception, I call upon all members and sections to provide your innovative plans and suggestions for celebrating the 50 years Anniversary of R10 from 24th August 2016 for one year across Region. The details of the contest has already been circulated by eNotice to members.

I would also encourage members to participate in upcoming R10 events –TENCON 2015 happening during 1-4th November in Macau followed by HTC scheduled for 9-12th December, 2015 in Cebu.

To bring in operational efficiency, we are introducing some procedures for streamlining the systems in Region 10 geo-units like petition approval process for section/subsection/ society chapter/student branch/YP or WIE or LM AGs formation , Re-activation of any inactive entities, better engagement of Volunteer Leaders of Geo Units by R10 Excom, etc.; I look forward for your continued support on this front that would enable us to be more efficient in operation.

Ramakrishna Kappagantu
IEEE Board of Directors
Region10 (Asia-Pacific) Director

IEEE R10 Section Updates : News and Highlights

3rd IEEE Bangladesh Section Student/YP/WIE Congress 2015

The 3rd IEEE Bangladesh Section Student/YP/WIE Congress 2015 took place on 13th June 2015 at United International University. IEEE SYW Congress 2015 was the largest gathering of all the IEEE enthusiasts of Bangladesh with participation from a total of over 200 student delegates from 16 different universities along with a significant number of Young Professionals and WIE members. The congress was hosted by IEEE Student Branch of United International University (IEEE UIU SB).

IEEE UIU Student Branch also hosted a wonderful cultural with participation from IEEE student branches of UIU, AIUB, AUST, MIST and EWU along with an amazing performance by the Blue Poppers of Bangladesh. During the grand buffet dinner, a raffle draw segment along with the prize giving for the interactive session completed the daylong event.

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The A and A of IoT: A Tutorial on Arduino and Android

Every day we see various sensors integrated into one product such as a Smartphone, tablet etc. It is only a matter of time before every mechanical machine is coupled with our Smartphone. **The A and A of IoT: A Tutorial on Arduino and Android** gave an insight wherein people and "Things" are connected in an immersive networked computing environment. The past couple of years have seen a heightened interest in the IoT space transcending industry, academia and government.

The tutorial on Arduino and Android was organized on 17th July 2015 at Robert Bosch Centre for Cyber Physical System, IISc Bangalore. It was attended by 24 Professionals and 27 Students.

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Universiti Teknologi MARA Observed Digital Week 2015

The Digital Week was co-organized by UiTMNS Artificial Intelligence Club and the department of Computer Science. The event was attended by 54 primary students from a neighboring school, 10 IEEE faculty members, and the campus society. There were showcases of AI students' work: digital subscription, digital self, digital games, digital footprints, digital apps, digital films, as well as IoT, Brain Teasers, and 2D-Robothespian with IEEE banner as the backdrop. Besides challenges to the brain teasers, visitors were challenged to take selfie/wefie with the 2D-Robothespian while making it appeared 3D.

Dr Dianne Cheong, Vice Chair of TEMS Chapter, delivered a topic entitled, "Cyber Forensics: Layering of Self" during the talk "Cyber Crimes" on 14 April 2015. The "Internet of Things" forum was held on 15 April.

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IEEE WIE Student Branch of University of Engineering and Technology, Taxila organizes charitable Ramadan activity under 'IEEE Cares'

On 23rd June 2015, IEEE WIE Student Branch of University of Engineering and Technology, Taxila conducted a project to celebrate the blessings and spirituality of the holy month of 'Ramadan' with the less privileged, under the shade of the 'IEEE Cares' banner. The project intended to spread joy, help those in need and develop a sense of charity-giving and fundraising.

Ration packets were made and distributed under the title 'Ramadan gifts'. Here, volunteers showed a good response towards donation. An attempt was made to include all the items necessary to make these packets efficient as a complete package for the entire month, for all its recipients.

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IEEE Volunteer Leadership Training Workshop By IEEE Karachi Section

Keeping in mind IEEE's long-term strategic interest to ensure that IEEE volunteers can assume leadership and gain the necessary skills, a Volunteer Leadership Training Workshop took place on 21st February 2015 at NED University. Student members from different university branches of Karachi section joined the event including FAST-NUCES, Hamdard University, ISRA University, Indus University, DHA Suffa University, Karachi University, etc..

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IEEE Bangalore Section, IEEE Young Professionals Bangalore Section and IEEE Student Branch Jain College of Engineering organized Industry Readiness Program in North Karnataka

On 16th and 17th July 2015, IEEE Bangalore Section and IEEE Young Professionals Bangalore Section in association with IEEE SB Jain College of Engineering, Belagavi organized an Industry Readiness Program as part of the IEEE Elevate Program. 54 IEEE members and 12 non-members from 5 different colleges of North Karnataka attended the event, which mainly focused on Aptitude Training and Interview Handling Skills.

The first session conducted by Ms. Neena Nair (MBA in Marketing & International Business) and it focused on communication skills, resume building and interview handling. The second session conducted by Mr. Abhilash Varma (B.E., Information Technology) dealt with Aptitude Training; covering mathematical as well verbal and non-verbal analytical reasoning. Various problems were solved and helpful tricks, tips and shortcuts were shared as well.

Overall, the event proved to be a beneficial platform for the students, as an overwhelming response was received. This was further verified by the non-members' interest to sign up for an IEEE membership in the future.

IEEE Bangalore Section: C-DAC Industry Visit

IEEE Young Professionals Bangalore Section and IEEE Bangalore Section jointly organised an industrial visit to the Centre for Development of Advanced Computing (C-DAC) at Bangalore on 17th July 2015 as part of the IEEE Elevate Program. The visit was attended by 30 students and professionals.

C-DAC is engaged in carrying out research and delivering solutions and products in area of System Software for PARAM series of super computer. The centre is highly acclaimed as a centre for excellence in the thematic areas of High Performance and Grid Computing, Cyber Security, Cyber Forensic, etc.

The student members and young professionals had Demo sessions on IoT and Augmented Reality from MARS Lab, along with presentation and visit to Super Computer facility conducted by CTSF lab. The student members were explained the necessity and importance of IoT and given a brief introduction about it.

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IEEE R10 Student Branch Updates : News and Highlights

"Muse" a Paper Presentation event held at IIT (Banaras Hindu University)

"Muse" a Paper Presentation event held at IIT(Banaras Hindu University)
A paper presentation event called Muse was held during 'Udyam' 15, the annual techno-management festival of Electronics Engineering Society, IIT (BHU), Varanasi. The objective of the event was to provide a platform for students to exhibit their ideas. The event also helped to train students to model their ideas into a formal research paper format.
The event was sponsored by IEEE Student Branch, IIT (BHU), Varanasi and IEEE Uttar Pradesh Section.

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IEEE Student Branch of University of Engineering and technology, Taxila organized robotics competition titled "RoboChalleng'R"

Continuing its tradition of arranging unique and technical events, IEEE Student Branch of University of Engineering and Technology (UET), Taxila organized a robotics competition titled "RoboChalleng'r". In RoboChalleng'r, the agility and speed of a line-tracking robot was tested on different tracks and in different configurations. Students showed great interest in the event through their presence at the arena, at the time of competition.
The program was an inter-university event and the participants comprised of students from the different IEEE student branches of Bahria University, FAST University, Mohammad Ali Jinnah University (MAJU), COMSATS University and Air University. The event itself consisted of two separate modules named 'Robo-Tag' for logic based robots and 'Robo King' for controller based robots and the judges for both modules, were highly qualified teachers of UET-Taxila, with experience in the field of robotics.

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IEEE Student Branch of Sri Ramakrishna Engineering College organizes Faculty Development Program on 'Advanced Signal Processing Systems for Engineering Research'

On 19th and 20th March 2015, IEEE Student Branch and Department of Electronics and Communication Engineering of Sri Ramakrishna Engineering College, Coimbatore along with MathWorks India Pvt. Ltd, Bangalore jointly organized a Faculty Development Program (FDP) on 'Advanced Signal Processing Systems for Engineering Research'. A total of 32 members attended this FDP and the program was inaugurated by Prof. S. P. Rajkumar, HOD/EEE, Sri Ramakrishna Engineering College.

Such an FDP is beneficial for young budding engineers and researchers. It assists them in understanding and grasping concepts regarding a particular matter, in this case, on signal processing systems.

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IEEE AIUB Student Branch Organized "Workshop on LATEX & LYX"

On 28th June, 2015, **IEEE AIUB Student Branch** organized a workshop titled "Workshop on LaTeX & LyX" in Room No. 266, Building 2, Faculty of Engineering, American International University-Bangladesh (AIUB). The workshop was aimed at introducing the +100 participants to the high quality typesetting system known as **LaTeX** and its complementary open-source document processor named **LyX**, along with their applications and the prospects they hold for engineering students. The event was led by two experienced instructors who shared their technical knowledge and guided the participants, in a hands-on interactive workshop.

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IEEE R10 Student Branch Updates : News and Highlights

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. Prithev, 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 careers.

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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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IEEE R10 Student Branch Updates : News and Highlights

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

IEEE Malaysia WIE Affinity Group awarded best project in UNITEN

On March 2015, the IEEE Malaysia WIE Affinity Group has sponsored an Award of Excellence for Final Year Project Competition, UNITEN to encourage woman in engineering. The award was won by Nur Umairah binti Ramli, with her project titled "Developing a Probabilistic Load Profile Model for a Distribution Network". A WIE commemorative and certificate were awarded to the winner. The judging criteria include novelty, creativity and practicality.

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IEEE Malaysia WIE Affinity Group awarded Best Project by Female student in UTP

ELECTREX is an event for the Department of Electrical and Electronic Engineering, Universiti Teknologi PETRONAS(UTP), Perak. All the Electrical and Electronic Engineering students in their final semester are required to present poster on their final year projects. Uniquely for ELECTREX held on 25 March 2015, the IEEE Malaysia WIE Affinity Group has sponsored an Award of Excellence. The objective of the award is to give recognition to the best final year project by a female student, to inspire female students in Electrical and Electronic Engineering. Prior to ELECTREX, five projects by female students were shortlisted, based on marks obtained in the first semester of the project. Then, the shortlisted projects were judged by a panel of judges consisting of members from the IEEE-WIE Malaysia Chapter. The IEEE WIE Award of Excellence was won by Song Hui Lee, with her project titled "Tag Recognition for Quadcopter Drone Movement". Her project has also won the GOLD Award for Best Final Year Project from the Department of Electrical & Electronic Engineering, UTP and the People's Choice Award, based on votes from visitors to ELECTREX.

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Social Awareness in Different Form: Conquering and Cleaning Broga Hill by IEEE Malaysia WIE Affinity Group.

The IEEE Malaysia WIE Affinity Group successfully organized an event to conquer and clean up *Broga Hill* on April 11, 2015. The event saw participation not just from WIE members but also from IEEE members, student members and IEEE Malaysia Section current and past Chairs, with the total of 15. The hiking started at 7:45 in the morning where all the participants were given a rubbish bag. During the hiking, spirit of teamwork was demonstrated where team members helped and encouraged each other to reach the next level of the hill. Several bags of garbage were successfully collected from this event.

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Join us in planning the 50th Anniversary of IEEE Region 10

As a member of the largest Region in IEEE, you would be immensely pleased to know that your Asia-Pacific Region, R10 will be celebrating its GOLDEN JUBILEE Anniversary from next year. On 24 August 1966 the IEEE Board of Directors approved the formation of IEEE Region Ten (R10 in short and also known as the Asia-Pacific Region), which led to the establishment of R10 on 1st January 1967. To mark the 50th Anniversary of Region 10, Ramakrishna Kappagantu, R10 Director has approved the 50th Anniversary Celebrations from 24th August 2016 for one year across the whole region.

As we are now drawing plans for the celebration activities I would like to invite you to suggest some innovative and interesting activities for the 50th anniversary and help us in creating a worthwhile program. You can send your ideas via a Suggestions form at: https://ieeer10.typeform.com/to/NnIinR . Through this form you can submit:

1.Suggestions for an attention grabbing tagline promoting the value of IEEE in the region

2.Suggestions for a celebration theme and key goals

3.Ideas for possible celebration activities and special events across the Region 10

4.Help us in the collection of historical records and photographs for documentation of Region 10 history and

5. If interested, you can also submit a logo design for the 50 Years Celebration of R10 and get a chance to win some cash prizes. For more information about the logo design competition, please visit: http://www.ieeer10.org/?p=71810

I hope you would accept this invitation to shape the celebration plans for the 50th anniversary of R10. While suggesting ideas for the celebration activities, please keep in mind the social, cultural and geographical diversity of R10. We would like maximum number of members across the whole region to participate in the celebration. Once again the Suggestions Form is at https://ieeer10.typeform.com/to/NnIinR and will remain open until 31 October 2015. If you have any difficulty in accessing the form please let us know by email to r10-celebrations@ieee.org.

IEEE R10 : AIYEHUM 2015 Shortlisted Projects

S.No.	Project ID	Project Title	First Name	Last Name
1	A004	Pervasive Electricity Distribution System	Muhammad Usman	Tahir
2	A014	Autonomous Mobile Sensor Robot	Muhammad Ihtasham	Zahid
3	A017	UPASANA: - Diagnostic Toolkit For ASHA Worker	Vivek	Sureshkumar
4	A020	SMART LAPTOP CHARGER	Naveen Kumar	M
5	A027	EVOLUTION OF MANKIND THROUGH IOT(INTERNET OF THINGS)	Guaurav	Sharma
6	A028	Effective Disposal of Plastic Waste	Salman	Nizarudin
7	A044	Development of a web based Electronic Waste Management system: A study with special reference to recycling companies in Sri Lanka	Ahamed	Shibly
8	A049	Hemoglobin Sensor Using Tapered Optical Fiber	Mohammed	Baker
9	A060	E-School	Omiya	Hassan
10	A064	Tsinghua Emergency Cloud	Cheng	Guo
11	A067	Research of Emergency Power Response after Disasters	Hongkui	Zhang
12	A077	A Low-Cost Home Health monitoring Device for Smart Nation	Hu	Xin
13	A078	Early detection of microbes through E-Nose.	Harshit	singhal
14	A079	Biosensors for viral RNA detection	Chee King	Tan
15	A095	BLIND E-BOOK READER	Jayaprasad	T J
16	A110	Human Rescue System From Natural Or Artificial Disaster Using RF Sensor And Cardiac Sensing System With Functionalities Of Active Tag And GPS	Priyanka	ramasamy
17	A111	Improving the Efficiency of Solar Water Desalination System	Vigneshwaran	Vijeyakumar
18	A116	IMPEDING THE USE OF MOBILES BY THE DRIVERS TO PREVENT ROAD ACCIDENTS	Deepa Sonia	M
19	A120	Keeping Cold Chains Cold	Tan	Jing Yu William
20	A124	DISHARI :Development of an Efficient Braille Printer Affordable for Visually Impaired Students	Mohammad Zakaria	Haider

IEEE Upcoming events

IEEE Global Humanitarian Technology Conference (GHTC)
October 8-11, 2015 Seattle, Washington USA
http://www.ieeeghtc.org
Registration Now Open!

IEEE Global Humanitarian Conference (GHTC) is the perfect venue for enthusiasts from all backgrounds to connect, share and address critical issues for the benefit of the humanitarian endeavor worldwide. Join us in Seattle, WA, USA as we:
*   Enable a global sharing of skills, knowledge, networking in the humanitarian and emergency management fields
*   Highlight humanitarian technologies that promote successful practice, attract practitioners, and guide future research
*   Positively impact billions of people around the world

IEEE GHTC is the place to be whether you have experience to share, are looking for opportunities to join, or simply want to understand humanitarian work. In its 5th year, sponsored by IEEE Region 6 and IEEE Seattle Section, the conference is dedicated to Advancing Technology for Humanity with a focus on essential areas including energy, health, disaster management, connectivity, agriculture, and education.
Conference highlights include:
*   Maurizio Vecchione, Sr. Vice President of Global Good & Research plenary
*   The Future of Humanitarian Technology with a panel of experts from NGOs, the United Nations, and the Red Cross
*   The Internet of Things (IoT) for Humanity with a panel of industry partners
*   IEEE SIGHT Gaetano Borriello Memorial Symposium on Humanitarian Technology
*   UNESCO 70th anniversary celebration
*   IEEE Smart Village workshop on Energy, Education, and Empowerment

Interactive special sessions that support in-field humanitarian efforts:
*   Open Data Kit Workshop learn to collect data and build data services for many humanitarian efforts
*   Entrepreneurship and Education engage in workshops with interactive dialogue on grass-roots business development and collaborative educational strategies for entrepreneurs and practitioners
*   Demonstrations and Exhibitions see and experience new technologies in water and sanitation, energy, and communication and connectivity technologies
Register today to participate in an extensive, vibrant, and innovative technical program with likeminded individuals across the world.

Regular Registration ends October 7
On-Site Registration & One Day Passes Available
For more information, contact ieeeghtc@ieee.org

August 2015

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