



## STUDENT AND EDUCATIONAL ENGAGEMENT

Nara, Japan

*Education is a core purpose of IEEE. In 2015, IEEE worked to be a leader in science, engineering, and technology education, a difference-maker in career-long learning for practitioners, a global catalyst for innovation, and to foster public understanding and appreciation of technology. IEEE works every day to maintain and enhance the connection to student members worldwide, because they are the ones who will create the great technologies of tomorrow.*

## IEEE Appeals to Young Professionals

IEEE is committed to helping young professionals evaluate their career goals, polish their professional image, and create the building blocks of a lifelong and diverse professional network. To that end, the IEEE Young Professionals Committee launched a website refresh in 2015. Members can now find all information related to IEEE Young Professionals in one all-encompassing hub, making it easy to search for valuable content and to locate relevant information regarding upcoming IEEE Young Professionals meet-ups.

Another new addition to IEEE Young Professionals is a monthly webinar series that covers topics from personal finance to ideation to validation to deeply technical topics. What's more, the publication GOLDRush was rebranded in 2015 and is now known as IMPACT by IEEE

Young Professionals, reflecting the impact that members are making all around the world with their volunteering, research, leadership and dedication to advancing technology for humanity. The IMPACT blog has been incorporated into the new website and will provide exciting new ways of delivering information to members via videos, podcasts, and presentations from events on every continent.

## IEEE Ramps up Accreditation Activities, Bolsters Online Learning

As part of its mission to be a leader in science, engineering and technology education, IEEE actively supports global accreditation to further the future of the engineering profession and stay current with university education issues on a global scale. In 2015, IEEE participated in the Engineering Education Programme



IEEE Young Professionals taking a meeting break and striking a pose.



Accreditation Workshop held in Lusaka, Zambia. The objectives of the workshop were to review Zambia's recent legislative mandate for engineering education program accreditation and to develop a roadmap to assist Zambia in instituting an accreditation system that would ultimately be recognized globally. IEEE also presented a well-received position paper on accreditation at the International Conference on Advancements in Computing and Information Technology (ICACIT) Stakeholders Meeting on Accreditation held in Lima, Peru.

Another key accomplishment in 2015 was the migration of all content from the IEEE eLearning Library to IEEE *Xplore*. The IEEE eLearning Library is a series of engaging

and highly interactive online learning tutorials based on the best IEEE educational content from IEEE conferences around the world and on emerging technology topics developed specifically for inclusion. The IEEE eLearning Library now includes 440 tutorials with more than 575 hours of content, including IEEE English for Engineering, which contains 45 hours of online content and 16 hours of workbook materials.

Additionally, IEEE Xplore, professional and continuing education courses delivered via the edX platform, broadened in scope. One of the best attended courses in 2015 was Introduction to Cloud Computing, which attracted more than 60,000 students from 180 countries.



Thanks to an EPICS in IEEE grant, a resident of Uganda's Luweero district uses a solar phone charger designed, tested, and assembled by EPICS in IEEE volunteers from Kyambogo University and Agha Khan High School.

## Students Put IBM's Watson to the Test

In 2015, IEEE teamed with IBM to present a new competition called the Watson Student Showcase. The showcase involved teams of students using IBM's Watson to create cognitive apps. Students had the opportunity to work with Watson technology while increasing their awareness of cognitive computing and the role it will play in transforming industries. Five winning projects were selected, earning up to US\$2,000 in cash prizes.



## IEEE Plays Epic Role in Community Service

Engineering Projects in Community Service (EPICS) in IEEE is a program that organizes university and high school students to work on engineering-related community-based projects. It gives students the unique opportunity to become civically engaged in their local community, explore their interests and career options, and gain real professional experience with hands-on engineering and technology-design projects for their community. In its first full year as an IEEE Foundation Signature Program, EPICS in IEEE received greater visibility in 2015, resulting in the approval of 12 new projects. The total amount awarded to these projects was more than US\$60,000. To build on its operational and programmatic successes, EPICS in IEEE will expand its focus and improve several program elements over the next few years.



IEEE's Kenya student branch installs solar panels at the isolated Kasiluni Primary School, the only institution of its kind within a 25-kilometer radius. The school serves 600 pupils in six grade levels.



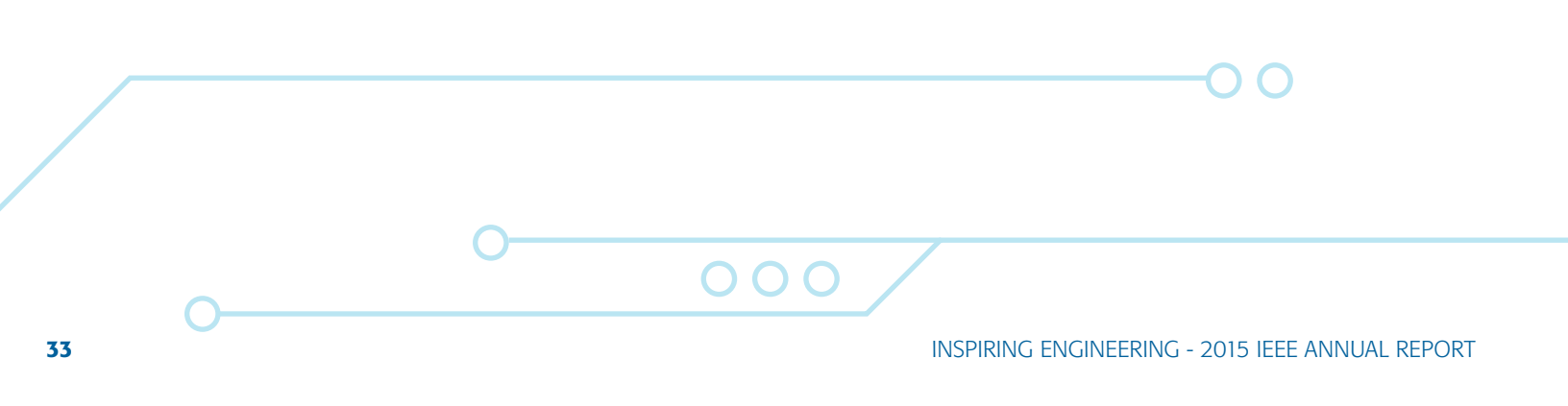
## New Standards University Promotes Innovation and Success

IEEE Standards University is a new, multi-track initiative intended to greatly expand IEEE's standards education content and resources for educators, students, and professionals. The goal of IEEE Standards University is to expand the influence of IEEE standards and benefit humanity by making standards education a reality at the university level. Milestones reached in 2015 include:

- The launch of a new IEEE Standards University web presence, as well as the unification of all standards education websites, including improved navigation and a consistent look-and-feel
- The release of a new video series highlighting the IEEE 802 family of standards
- Improved video accessibility, with all new videos available via the website, YouTube, and IEEE.tv
- Introduction of four new eLearning modules, including "Ethics and Standards" and "How to Read a Standard"

## IEEEXtreme Competition Grows in Strength

More than 6,400 students from 76 countries, an increase of nearly 900 students and 16 countries from 2015, competed in one of the most dynamic and intense coding competitions around: IEEEXtreme. The 24-hour contest, which continues to grow in popularity, brings together IEEE student members from around the world to solve programming challenges that they might be confronted with in the real world. All told, 2,477 teams entered the competition. Now in its eighth year, IEEEXtreme has its own community on IEEE Collabratec, with nearly 2,000 members. To encourage more students to participate and help them prepare for next year's contest, volunteers are developing tutorials and videos that explain how to conquer the competition's various programming challenges.







## IEEE BOARD OF DIRECTORS

**Back Row (Left to Right):** Thomas Coughlin, E. James Prendergast, Hirofumi Akagi, Robert C. Parro, Vincent P. Socci, Timothy P. Kurzweg, John W. Walz, Susan K. Land, William W. Moses, Vincenzo Piuri, Bruce P. Kraemer

**Middle Row (Left to Right):** James A. Jefferies, Kazuhiro Kosuge, Shelia S. Hemami, Jerry L. Hudgins, Amir G. Aghdam, J. Derald Morgan, Norberto M. Lerendegui, Wanda K. Reder, Rob Reilly, Costas M. Stasopoulos, Parviz Famouri, Lawrence W.C. Wong

**Front Row (Left to Right):** Ramakrishna Kappagantu, Theodore W. Hissey, Marina Ruggieri, Barry L. Shoop, Howard E. Michel, J. Roberto Boisson de Marca, Ellen J. Yoffa, Harvey A. Freeman, Mary Ellen Randall

**Not pictured:** Saurabh Sinha, Eric Herz

## IEEE MANAGEMENT COUNCIL

**Back Row (Left to Right):** Chris Brantley, Cherif Amirat, Shannon Johnston, E. James Prendergast, Eileen M. Lach, Jamie Moesch, Patrick D. Mahoney, Thomas R. Siegert

**Front Row (Left to Right):** Konstantinos Karachalios, Mary Ward-Callan, Donna Hourican, Michael Forster, Cecelia Jankowski

