



IEEE President Peter Staecker (left) met with several local students including IEEE student member Peter Mbiria Maina (right) from a university in Kenya.

GLOBAL CONNECTIONS

The key to IEEE's success is collaboration—and collaboration knows no boundaries. IEEE members know this and they work together on world-changing innovations in many fields, from computing and sustainable energy to industry-setting standards. Our vision is global and our successes are clear. In 2013 alone, we crossed new frontiers and made inroads in engineering in Africa, improved technical training in India, achieved significant gains in China and made our mark in various regions across the globe.

◀ Emerging in Africa

In 2013, IEEE President Peter Staecker led two delegations to the nations of Zambia, Kenya, Ethiopia, Ghana and Tanzania to develop a better understanding of how IEEE can contribute to building engineering capacity on the African continent. Over the past several years, local African IEEE leaders and other stakeholders from the academic, industrial, government and development sectors have invited IEEE to become more active in the region. To that end, IEEE increased the breadth of its ongoing programs, including a recently established partnership with UNESCO to develop joint projects on engineering education in Africa.

The two trips were instrumental in assisting IEEE leaders in the development of a roadmap for IEEE's emerging efforts in sub-Saharan Africa. In fact, there is an opportunity for IEEE to impact multiple aspects of the engineering ecosystem in the continent. The visits made it clear that Africa is important to IEEE, and that IEEE is excited to play a role in the shaping of new approaches to engineering education in the region and in developing a high-tech population critical to advancing Africa into the future.

Touching Lives Around the World

IEEE continues to transform the way we live, work and communicate globally. In 2013, the IEEE Standards Association expanded the influence and adoption of IEEE standards throughout the world and, by doing so, promoted open knowledge-sharing for the benefit of humanity.

IEEE's Personal Health Device Standards, including IEEE 11073, support communications across personal health devices like blood pressure monitors and glucose meters. The result is that patients from Africa to America can benefit from on-the-go mobile clinics and caregivers, enjoying a more active and independent life.

In fact, the U.S. Food and Drug Administration recognized 12 standards from the IEEE 11073 family that help healthcare product vendors create interoperable medical devices and systems for disease management, health and fitness, and independent living. These standards promise far-ranging benefits, such as reducing clinical decision-making from days to minutes, eliminating gaps and errors across the spectrum of healthcare delivery

and helping expand the market for medical devices. The standards have the potential to save lives, improve the quality of life for people worldwide, and save money. A recent study identified more than US\$30 billion in annual costs to the U.S. healthcare system due to a lack of medical-device interoperability.

2013 also marked the 40th anniversary of Ethernet and the 30th anniversary of IEEE's Standard for Ethernet (IEEE 802.3). This universal standard is the foundation for today's world of high-speed communications and it continues to touch a tremendous range of established and emerging technologies including data-center networks, personal computers, laptops, tablets, smartphones, cellular backhaul, power infrastructure, smart meters, personal medical devices, the internet of things and connected cars.



IEEE Gains Momentum in India

IEEE continued to be very active in India. There are now more student members in India than anywhere else in the world and the country continues to see some of the largest overall membership gains. In 2013, IEEE helped further develop India's blossoming technology industry by forging new educational alliances, improving the level of training for engineering instructors, and helping more engineering students find good jobs.

Better Training for Engineering

Instructors: IEEE has partnered with IIT-Gandhinagar and the Gujarat Technological University to raise the level of university education in India through blended online/live training. To help India meet their growing demand for

highly qualified professors of engineering, IEEE spearheaded a pilot program that provides faculty with instructor guides and best practices for teaching common engineering courses. The program is already having an impact, as more than 200 faculty members from 40 engineering colleges in the Indian state of Gujarat attended a live training session held in November 2013.

Helping Students Find Jobs:

The IEEE Computer Society is helping more Indian software engineering students find employment thanks to a memorandum of understanding with Visvesvaraya Technological University and Gujarat Technological University. The partnership could positively impact the lives and

careers of more than 300,000 students. The Computer Society also made considerable gains with its Software Engineering Body of Knowledge (SWEBOK®) certificate program in 2013. Three private universities and eight registered education providers agreed to integrate SWEBOK into their curriculum. Moreover, India's National Skills Development Council will provide job-oriented courses based on SWEBOK.





Beijing, China

Inroads in China

In September 2013, IEEE Standards Association (IEEE-SA) President-Elect Bruce Kraemer successfully hosted the first China Advisory Group meeting in Beijing. Representatives from eight Chinese technology companies met with the IEEE delegation and offered insight to elevate IEEE-SA's future strategy in China.

IEEE-SA has seen rapid membership growth and participation in China. China now accounts for more than 10 percent of IEEE-SA's corporate member base and ranks fifth in total IEEE Standards

Association members, behind the United States, Canada, Japan and the United Kingdom.

OpenStand Principles in Action

The technology world depends on standards developed in an open and transparent manner. That's why IEEE continued to drive the OpenStand message to the world in 2013 by hosting 40 events, delivering keynote addresses and publishing articles. OpenStand is a global community that stands together to support an environment where developers, users and stakeholders in

every technology market can have a voice in the way that global standards are developed and implemented.

In November 2013, IEEE-SA President Karen Bartleson met with global thought leaders to discuss the need for open standards at the Global Standards Symposium in Dubai. Bartleson reiterated IEEE's position as a proud advocate of the OpenStand principles and its goal of creating a global community of open innovation.