

Action for Industry in IEEE R8

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R8 Meeting 19th March 2016

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Action for Industry Team



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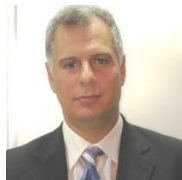
- ❖ **Mohamed Amin** (Egypt Section), R8 Industry Ambassador
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- ❖ **John Matogo** (Kenya Section), R8 Industry Ambassador for
Africa (john.matogo@gmail.com)



- ❖ **Toni Mattila** (Finland Section), R8 Industry Ambassador for
Europe North (toni.mattila@investinfinland.fi)



- ❖ **Marios Antoniou** (Cyprus Section), R8 Industry
Ambassador for Europe South (marios.antoniou@cyta.com.cy)

Action for Industry Objectives

- To move IEEE closer to industry by creating platforms for delivering credible and sustainable value to industry. Thereby we in Region 8 aim to restore the roots of IEEE which started with industry

Measures

- The Action plan is systematic, hopefully avoiding slogans and unrealistic intentions. Because the plan is systematic, we can measure progress by each stage of achievement.

Challenge

- The serious challenge is whether industry, which has been significantly neglected, will be persuaded to open up co-operation with IEEE. Companies frequently cite the deals they have already established with highly credible national institutions for staff training, CPD, internships, recruitment and chartered status. Undaunted, we are making headway.

Action for Industry Progress

Status and Past Contributions

- The phase to **identify the IEEE Seniors and Fellows who are based in industry was completed by October 2015**. Thanks to MD we obtained the lists of Seniors and Fellows in R8. Because IEEE does not yet attempt to identify the affiliations of members, (we have proposed solutions), the extraction of Seniors and Fellows based in Industry was painstaking.
- Since then, **we have progressed to reaching the companies of the Seniors and Fellows actually working in Industry**.
- **We are now at the more challenging phase of the Action Plan which is to convince the companies that IEEE can add value to them**. In this phase we have reached out to the Seniors and Fellows to volunteer as Mentors, and to the companies to offer Internships to selected high ability IEEE Students. We have placed briefings on the Region 8 website for Internships <http://www.ieeer8.org/category/technical-activities/action-for-industry/internships/> and Mentoring <http://www.ieeer8.org/category/technical-activities/action-for-industry/mentoring/>. As we add new Mentors, the list will be updated at <http://www.ieeer8.org/category/technical-activities/action-for-industry/mentors/> so that young engineers can reach out to them for guidance. We now have the fledgling list of volunteer Mentors.

Action for Industry Progress

We are building up our list of volunteer Mentors

<u>Name (will not be published)</u>	<u>Contact info (not published)</u>	<u>IEEE Grade</u>	<u>Motivation to Mentor</u>	<u>Career Professional Responsibilities</u>	<u>Career Technical Responsibilities</u>	<u>Location</u>	<u>Availability</u>
Hervé JAOUEN	herve.jaouen@st.com, Tel: +33 43892223 Mobile: +33 680969191	Senior Member	To help young engineers	Director, university relations	R&D in microelectronics, design and technology	Crolles near Grenoble, France	To be discussed with Mentee
Heinrich J. Stuetngen	stuttgen@neclab.eu Member Number: 04020954	Fellow	Broaden perspective and career opportunities of young ITC engineers & researchers	Vice President Research	R&D in Mobile Networking, Internet and Social Infrastructure Solutions	Germany	Case by case depending. Email preferred to establish contact
Anmol Sharma	anmol_sharma@ieee.org Member Number: 41390886	Senior Member	To help develop and mutually get benefitted from skills of new engineers	Senior Analog Integrated Circuits Design Engineer	Designing world class Analog and Power-Management ICs	Germany	By email arrangement.
Ebrahim Rahimpour	E-Mail: ebrahim.rahimpour@de.abb.com Member Number: 90555735 Phone: +49 2224 14 200	Senior Member	To broaden my skills, help young engineers, be more active in IEEE	Project leader of transformer transients	Transformers, Transient, Monitoring, Electric field	Germany	Arranged by E-Mail and making an appointment
Francesco Flammini	Francesco.Flammini@ansaldo-sts.com	Senior Member	To help young engineers	Innovation Network Manager, Expert of Open Innovation and Railway Dependability	Rail Transportation – Large Enterprise Verification & Validation, Innovation	Naples, Italy	Personal mentoring-full availability;
Gert Rietveld	gert.rietveld@vsl.nl Member Number: 90794872	Senior member	To help develop skills in application of (measurement) science in industry areas	Senior Principal Scientist	Quantum metrology, measurements in power & energy and smart grid, Quality Assurance, Scientific programme management, Science strategy (road mapping)	NL	Commitment by per case arrangement

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Amer Al-Hinai	hinai@ieee.org	Senior	To help, guide and advice young engineers in their career and to develop their engineering and interpersonal skills	IEEE Oman Section Chair, AER-Oman Chairman, Ass. Prof. of Electrical Engineering at Sultan Qaboss University	Electrical Power Engineering	Oman	Commitment by arrangement. though email
Mohammed Bait-Suwailam	msuwailam@squ.edu.om	Senior	To encourage, support and help developing skills of new engineers	IEEE Oman Section Membership & Development Officer, Ass. Prof. of ECE at Sultan Qaboos University	Telecommunication Engineering with emphasis on Electromagnetics & radio frequency circuit design applications	Oman	Commitment by arrangement through email
Ali Al Shidhani	Ali.alshidhani@gmail.com	Member	To give advice on career related issues	IEEE Oman Section, Industry Ambassador. Director of ICT Research at the Research Council, Oman	Information and Communication Technologies	Oman	Commitment by arrangement through email
Salah Al-Majeed	Salah.almajeed@IEEE.org	Senior	To help and support in developing and enhancing engineering and communications skills	Deputy Head of Systems Engineering, Visiting Professor	ICT areas (Wireless, Bio-Sensors, IoT ,...etc)	Oman	Available through emails to start with
Miguel Colina;	mcolina@aimme.es +34 961318564	Senior Member	To help young engineers	32 years professional electrical engineer: applied industrial	Control systems, power supplies, microcontrollers printed circuit board design. Research, metal and mechanical industry	Valencia, Spain	September to July

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Nihal Sinnadurai	sinnadurai@aol.com	Fellow	To help develop skills and focus of new engineers	Vice President Photonics, Chief Technologist Electronics, Chief Exec, Trouble shooting company, Visiting Prof.	Photonics Technology, Microelectronics technology, Fit-for-Purpose Reliability	UK	Commitment by arrangement. Online and 'Phone and email will allow more contact
Steve Nightingale	Steve.Nightingale@cobham.com	Fellow	To help and advise: a) pre-, current and post-university students and b) employed engineers how to best develop their engineering and associated soft skills to benefit their career	Chief Consultant, Electronic Design, Corporate Technologist in semiconductor technology, visiting Prof.	RF and microwave circuits and systems for communications and sensors, optical communications, monolithic circuit design on compound semiconductors.	UK	By prior arrangement by phone or email.
Mike Smith	mike@realtimetesting.co.uk Member Number: 40312047	Senior Member	To pass on all I know such that any proper learning can be truly new	Principal Engineer at NATS. NATS is the UK's Air Traffic Control provider.	Head of engineering standards, assurance and safety.	UK	Commitment by arrangement, online, phone and email, in person if appropriate
Sarah Lee	sarahlee@ieee.org Member Number: 41373850	Senior Member	To help develop skills and focuses of new engineers in the medical imaging field.	Independent consultant	Medical imaging data analysis, digital image processing	UK	Commitment by arrangement. Phone, email and F2F when possible.

Action for Industry Progress

And, companies starting to offer Internships

Company	Location	Type of Internship	Funding
Vodafone Egypt	Egypt	<p>Appreciated IEEE support in getting qualified students through the nationwide IEEE SBs network. Selection of qualified student to act as company representative inside their academic community and to be named as Vodafone Guru.</p> <p><u>Vodafone Guru will:</u></p> <ul style="list-style-type: none"> • Have granted seats in the summer training & R&D technical trainings. • Have Free Invitations for all Vodafone company events • Personal stationery and note books • Advertise needed vacancies & internships. • Prompt for Vodafone R&D activities for students (Summer trainings, internships and graduation projects support) • Act as Vodafone R&D interface inside his academic institution 	Funded
IBM (Thanks to the strong support of IEEE member "Muhammad Alaa" in IBM we started a pilot phase with two candidates)	Egypt	<p>IBM has a quarterly program for 3 months of internship, including training and shadowing on existing IBM projects. The program is applicable only for Graduate Hires. The candidate must meet the following qualifications:</p> <ul style="list-style-type: none"> • Top university performer • Maximum 24 Months from graduation date • Specialized in one of the IT fields • Did not join previous IBM internship rounds <p>Scope: 3 months of internship, including training and shadowing on existing IBM projects; before they get hired. Once training and shadowing is over; passing an exam will qualify the candidate for hiring.</p> <ul style="list-style-type: none"> • Internship 1: Farrah Reda "IEEE MUST Student branch" has joined the Oracle/Microsoft Service Line for a 6 Month Internship to work on Oracle Social Response Management solutions. (Ends April 16) • Internship 2: Moustafa Hossam "IEEE AAST Student branch" has joined the Embedded Systems Service Line for a 6 Month Internship (Ends April 2016). <p><u>Next step:</u> discuss IBM / IEEE MoU collaboration on R8 Internships.</p>	

Action for Industry Progress

And, companies starting to offer Internships

Company	Location	Type of Internship	Funding
Ansaldo-sts	Naples, Italy	Research Studentships	Unpaid for Bachelor and Masters Projects and Dissertation candidates. PhD Grants available for candidates working 50/50 Ansaldo and University
ST Microelectronics.	France	Next Call October/November 2016	Details to come
ST Microelectronics.	Italy	Details being obtained	Details to come
British Telecommunications Global Services	UK and global	Including IEEE opportunity into their recruitment considerations (Note that IET has precedence for paid Internships at BT Labs)	Details to come
Oclaro	UK and Italy	Considering IEEE Internships	Details to come
IBM Kenya	Kenya	Considering IEEE Internships	?
SEACOM	Kenya	Considering IEEE Internships	
Communications Authority	Kenya	Considering IEEE Internships	
Centurion Systems	Kenya	Considering IEEE Internships	
Digital Age institute	Kenya	Considering IEEE Internships	
Schneider Electric	Kenya	Considering IEEE Internships	

Action for Industry Progress

Egypt- Internships in place:

- **IBM:** IBM has a quarterly program for 3 months of internship comprising training and shadowing on existing IBM projects;
- **Scope:** The program is applicable only for Graduate Hires:
- **3 months** of #internship, including training and shadowing on existing IBM projects; before they get hired. Once training and shadowing is over; passing an exam will qualify you for a hiring position.
- Thanks to the strong support of IEEE member "Muhammad Alaa" in IBM we started a pilot phase with two candidates
 - **Farrah Reda "IEEE MUST Student branch"** has joined the Oracle/Microsoft Service Line for a 6 Month Internship (Ends in April 2016) to work on Oracle Social Response Management solutions.
 - **Moustafa Hossam "IEEE AAST Student branch"** has joined the Embedded Systems Service Line for a 6 Month Internship (Ends in April 2016).
- **Next step** To discuss with IBM to sign a MoU to collaborate with IEEE for this program. I am looking forward as well to replicate this across different countries

Action for Industry Progress

- Kenya Industry partners:
 - Communications Authority
 - Financial Support to section activities
 - Membership support to staff
 - Internship programme
 - IBM Kenya
 - Support to section activities
 - Internship programme
 - Seacom
 - Internship programme
 - Schneider electric Kenya
 - Internship programme
 - Support to section activities
 - Centurion Systems
 - Digital Age Institute
- Nigeria
 - Section leadership developing a plan for engagement
- South Africa
 - SKA Project

Action for Industry Progress Internships

Examples of correspondence with companies on Internships are given below:

Cyprus:

- Preliminary acceptance from Cyprus Telecommunications Authority (CYTA) and MTN Cyprus. Both companies are Telcos in Cyprus. R8 Industry Ambassador awaits their formal acceptance.

Kenya:

- IBM Kenya: Still discussing the internship.

UK:

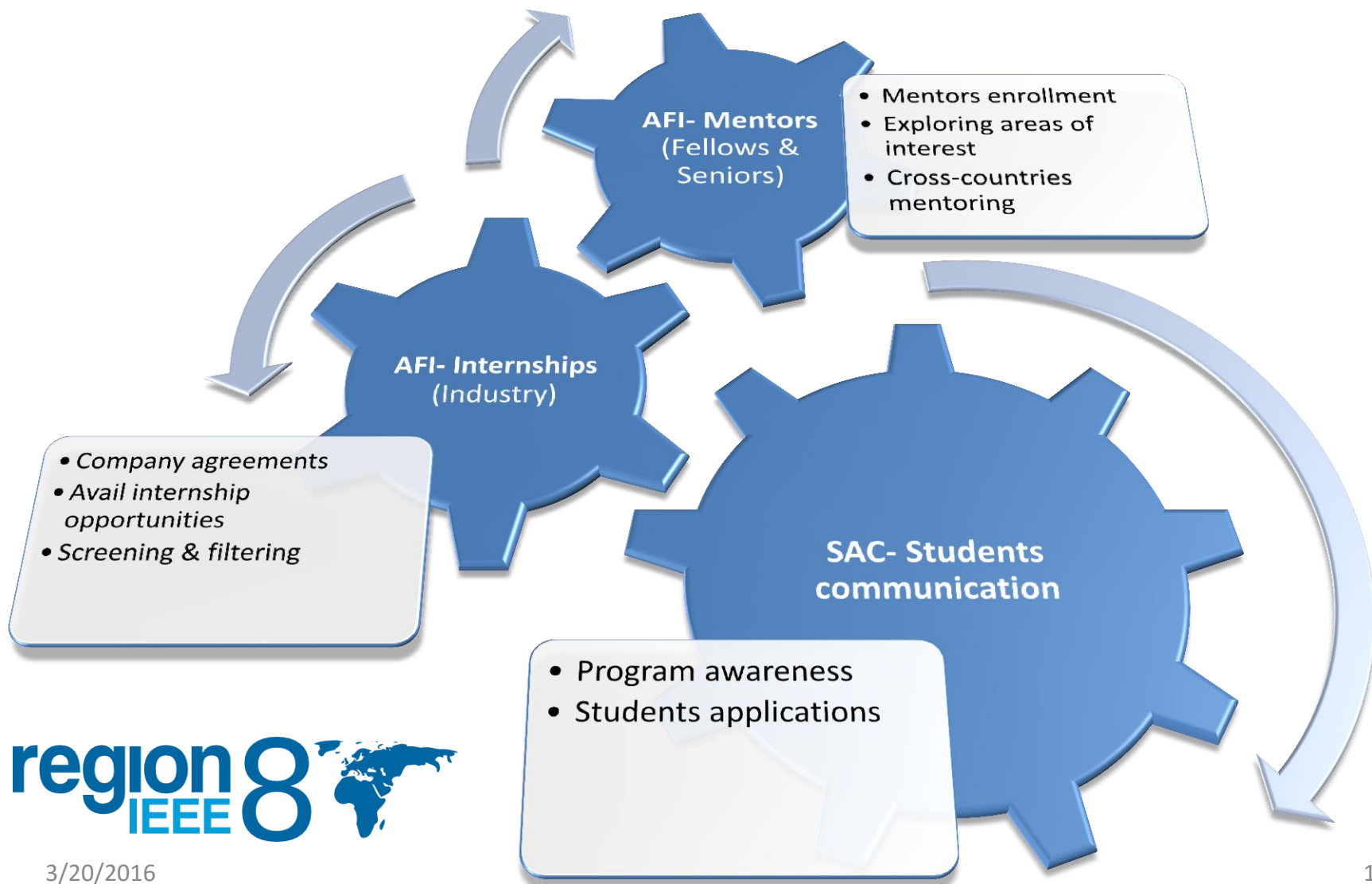
- 'Whilst interns are of great value within Tim's (BT Research MD) Research and Innovation organisation, our Diamond Scholarship activity is with the IET in the UK, and our post-doc activities with universities provide us all of the interns we need. BT's wider Global Services organisation is interested , because IEEE has a large global footprint, like BT GS has. BT GS will factor in the IEEE scheme into discussions about future activities'.

Action for Industry Progress

Next

- When we have sufficient Internship offers from Industry, we will invite IEEE Students to apply for such posts. Applicants will be filtered by panels for credibility and suitability and shortlists will be offered to the companies to match their offers.
- The invitation to apply will probe a range of critical judgements of the applicants, including the ability to present themselves credibly in the application and the CV they submit (the use of web CV templates rather than being individual may be taken into account)
- This action will be undertaken in co-operation with the Region 8 Student Activities and Young Professionals teams.
- The Mentors lists will be published on the R8 website and open to IEEE young engineers to seek mentoring. To avoid the mentors being swamped or trolled, those seeking mentoring will be vetted first by the Afl Chair.

AFI & SAC



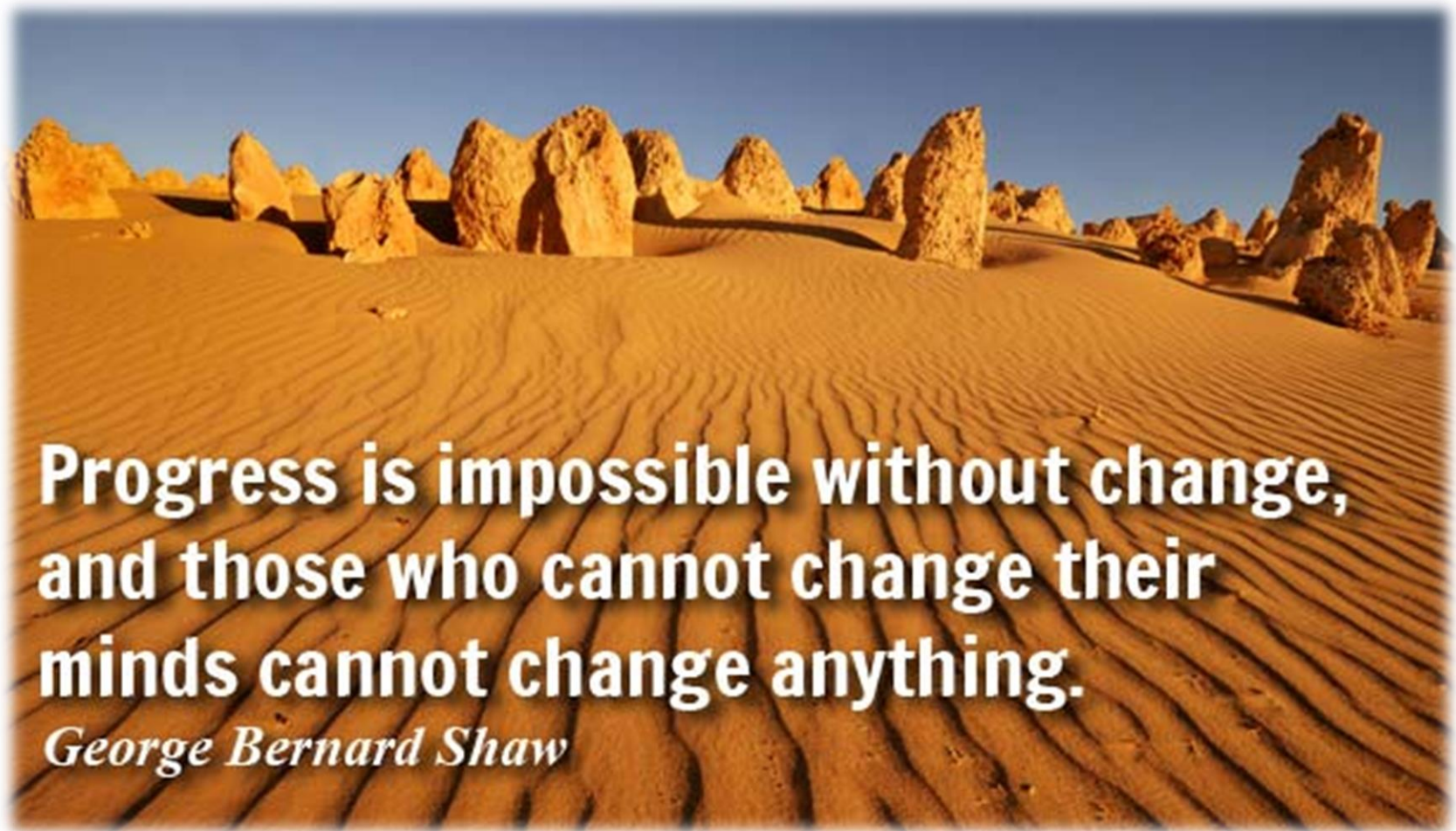
Required from R8 and IEEE

- Create credibility and lubricate the internships for Industry by providing Cost of Living funding for selected(not all) Internships
 - Funds from IEEE R8 Voluntary Contribution fund
 - Funds from R8 surplus and reserves (money sitting in a bank is passive and does nothing productive for the members)
- Our R8 Industry Ambassadors are planning to host a number of Breakfast and Tea meetings with groups of companies. Ambassador hosted Breakfast or Tea meetings with Industry groups
- IEEE HQ to adopt Industry Ambassador in place of IRO. The adoption of 'Ambassador' has had a positive impact and company seniors
- IEEE renewal form and member application form will from now forward have tick boxes to show affiliation: Industry ☐, Academia ☐, Government ☐, Research Institute ☐. This way we will know whom to contact and the true weighting of the affiliations of members.

Action for Industry Progress

- **With good progress we aim to move IEEE closer to industry by delivering credible and sustainable value to industry.**
- **We can then build on these positive relationships with industry who will then be amenable to more co-operation with IEEE.**

Thanks for your support to
IEEE R8 Afl 😊



**Progress is impossible without change,
and those who cannot change their
minds cannot change anything.**

George Bernard Shaw