

Special Interest Articles:

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IEEE SE MN2017-03

Editorial

One of the best things about being an engineer to me is to see how my ideas and projects benefits societies around the globe. With industry expansion and an aging workforce, there's no shortage of engineering jobs on the horizon. Therefore, when our ideas are modified, invented and reinvented every day for world peace, it becomes lot of fun without treat to any nation.

We at the IEEE Sweden section have put together, packages that will surely enhanced your career. As

the saying goes "No Army can stop an idea whose time has come". You cannot be connected to IEEE Sweden section and be stagnated with resources for your engineering growth. This body is the right channel to top you up knowledge-wise and connect you to the right people that will add succour to your creativity.

We have already started making lots of NEWS and noise and showcasing the benefits of becoming a member to students, academia and our friends

in the Industry. Please observe

This newsletter aims at sharing information with the IEEE Sweden Section Members. The Newsletter is subject to continuous improvements. Hence we kindly ask for contributions, feedback and involvement from our readers. Please submit to the Newsletter Editors, Dr. Celestine Iwendi celestine.iwendi@ieee.org or Rune Persson rune.persson@computer.org or Sweden Section Chair Mats Edvinsson,

A message from the Sweden Section Chair

Dear IEEE Members,

There has been a lot of IEEE activities during this summer and autumn. Great efforts were done by our volunteers across Sweden, creating a warm atmosphere, in spite of the colder than usual summer in Sweden,

Every 3rd year IEEE has a global Sections Congress, were representatives from all IEEE Regions meet, discuss, learn from each other, learn about new initiatives within IEEE, training as a volunteer etc.

In order to be effective, our Region 8 allocates the Committee Meeting adjacent to the Section Congress. Sweden was well represented and participated, see articles in this Newsletter.

A good example of a Chapter, Students & YP cooperation at Chalmers, see separate article.

Congratulation to the VT/COM/IT chapter for receiving an award!

Congratulation to Dr Viacheslav Izosimo., who received a Docent

Diploma on June 20, in Stockholm. His speech on Resilient Cyber-physical systems involves industry and academia; E.g self configuration, robotics, autonomous cars etc. A reminder, please use your right as an IEEE member and vote until Oct 2 for the next leader of IEEE global. More details in this newsletter

Mats Edvinsson,
Chair
IEEE Sweden Section
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News from the IEEE Region 8 meeting, 11th-13th Aug 2017

The Region 8 meeting - with representatives from all Sections in Region 8 – was co-located with the IEEE global Sections Congress in Sydney, Australia. Sweden was actively participating in both R8 and SC; R8 Director Margaretha Eriksson & Sweden Section Chair Mats Edvinsson (sponsored by IEEE R8) and Vice Chair Samarth Deo (sponsored by Sweden Section). Mats was an invited Section Congress speaker, on “Financial management – illustrations from IEEE Sweden”

IEEE Region 8 topics on the agenda

All Sections contributed by highlighting topics that should be on the R8 agenda in the years to come, such as: Membership recruiting & ‘packages’, more contacts with industry (mid-size & entrepreneurs, involve chapters etc), activities involving multiple disciplines (avoid ‘silos’), humanitarian events and webinars, experiences from Section management etc. R8 leadership will address this

New candidates for R8 Director Elect 2019-2020

The two candidates are Antonio Luque, Spain, currently R8 Vice Chair member activities, and Rafal Slitz; previously R8 SYP and Section Chair Finland. As usual, all IEEE R8 members (incl all Sweden members) will vote via iee.org

IEEE will be affected by the EU framework GDPR

The General Data Protection Regulation, GDPR,

<http://www.eugdpr.org/>

has a significant impact on personal data within IEEE; including Sections, Chapters, WiE, SB and YP. It relates to data that can be used to identify a person, e.g. ID number, email, photo etc. Explicit consent will be required for sharing data, e.g. what data will be used & how, such as approve information is used for conferences, sharing with participants etc. GDPR in force May 2018. IEEE is working on the topic, more information will follow. Key contacts at IEEE Piscataway are j.prescila@ieee.org and j.s.wiggins@ieee.org

Funding for activities etc

There are a number of different alternatives, Sweden could be more pro-active. E.g. IEEE Foundation sponsors signature programs (5-yr programs) and awards; key contact is Marko Delimar. R8 has allocated 30 000 USD for possible support activities FY2018, offers should be brought to R8 Treasurer Ralph Kennel. The IEEE ‘Technical Activities’ offers grants of 500 USD to SYP’s working standards; will mail all SB Chairs shortly

(cc Section Chairs). WIE awards should be submitted prior to 2018-02-15. As always – a chapter might get funding from parent Society.

SB YP WIE & membership development

IEEE Professional Activities has a ‘speakers program’, happy to assist local WIE & SYP & Section; empower employability, ‘soft skills’. There are IEEE projects with IBM ... STEP etc that should be relevant for Sweden. WIE asks for ‘successful events’ at Sections – hence Sweden WIE SYP should mail R8 a list of ‘the good events’ done since 2016q2. Another example is IEEE humanitarian projects for people with special needs (e.g. refugees who are/would be engineers)

Industry & entrepreneurship

IEEE Education webinars appears relevant to industry-members, see iee.org website, tab ‘courses’.

It appears advisable to approach industries this autumn, e.g. the 2018 budgets for internship & activities. The Action for Industry combines 3 resources; IEEE members as mentors; industry companies offer internships, and SYP & WIE offer candidates.

Sweden Section is asked to compose a list & description to R8 of performed Industrial activities (which we run across Section, WiE, SB, chapters etc). Engagements with entrepreneurs were discussed both at R8 and at Section



International Convention Centre, Sydney, Australia. Venue of the IEEE 2017 Section Congress



with the Sweden Section Representatives Samarth Deo (Vice-Chair), Margaretha Eriksson (R8 Director), Mats Edvinsson (Chair)

engineering driven entrepreneurs, where technical issues are important – IEEE could offer collaboration, connecting with expertise etc. Entrepreneur event toolkit etc is available on e.g. n3xt.ieee.org event toolkit etc is available on e.g. n3xt.ieee.org



Margaretha Ericsson
IEEE R8 Director 2017-18

Important deadlines & milestones

- **WIE leadership summit**, 7 – 9 Sep in Krakow, Poland. Speakers from industry <http://wieilskrk.org>
- **AFRICON 2017**, 18 – 20 Sep, Cape Town, South Africa
- Educational Activities; **TISP** (Teachers in Services Program). Application for funding deadline 15 Sep 2017
TISP training workshops for volunteering engineers, increase the level of technological literacy in schools.
- **Nordic SYP**, 20 – 22 Oct 2017, Lithuania
- Next **R8 meeting 2018** spring will be in Athens
- The **R8 SYP 2018** will be in Porto, Portugal, probably end of July or early August.
Each active SB 2017 could qualify for admission fee paid by R8
- **Melecon 2** – 7 May 2018 in Marrakesh. Paper submission 29 Oct 2017, registration 23 Feb 2018.
Key note speakers & papers are welcome. Topics include smart & green systems, service & emerging applications, enablers etc. Industry and cultural heritage visits
- **Energycon 3** – 7 June 2018 in Limassol, Cyprus; paper submission 15 Oct, workshop proposals 1 Oct, registration 15 Feb 2018; Towards self.healing resilient and green electric power & energy systems
- **Eurocon 1** – 3 July 2019, preliminary in Serbia
- **Africon 2019**, in Ghana
- **Histelcon 2019**, will be arranged by the UK & Ireland Section
- **ICIT2018, Feb 20-22, 2018 Lyon, France. Dr Celestine Iwendi will Co-Chair a special session SS 04 on: WIRELESS SENSOR NETWORKS: HARDWARE/SOFTWARE DESIGN ASPECTS FOR INDUSTRY-** Send in your papers. Deadline Oct 15th. <http://www.icit2018.org/en/pages/icit-ieee-2018-special-sessions-call-for-papers>

Please feel free to contact us if you are interested in a particular topic, more information etc.



Mats Edvinsson
Chair IEEE
Sweden Section

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Margaretha Ericsson
IEEE R8 Director 2017-18

YP Step Event at Nordpac Chalmers

Nordpac conference aims to bring together the community of electronics and packaging engineers for 2 days, in order to spread knowledge and information of current on-going trends in the field.

This year's edition took place at Goteborg with the collaboration of IEEE CPMT Swedish Chapter and the assistance of volunteers located on the IEEE Student Branch at Chalmers. For this occasion, we counted with a funded activity in collaboration of the Young Professionals Affinity group of Sweden in the form of a STEP event aimed towards recent graduates, Phd students and Young Professionals at the conference.

STEP is an initiative from IEEE Young Professionals with the goal of bringing together students and Young Professionals who recently graduated so they can get a better view of how they can achieve a smoother transition to a professional career after their studies.

Career Development, Why defining your early career matters

The workshops main area,

focused on increasing awareness among students on the big transition it takes from graduate school to their first job is the first step into the job market. Technical schools are very good at preparing their students to tackle problems in their fields, but when it comes to working in a company both in startups & enterprise or as part of a team, they need to start developing a set of skills which are becoming vital day by day.

Grades and being successful in the classroom, does not exactly correlate that you will be the successful in the long run in the real world. People who are capable of developing soft skills, personal skills and social skills, Emotional Coefficient (EQ); are becoming more attractive to employers these days. It is important to develop a correct balance with the classic Intellectual Coefficient (IQ). Additionally, a career is like a marathon, if you do not train and prepare for the long run; it could probably not end the way you wanted to develop as a professional.

Reception of the workshop

The workshop was praised and received with positive outcome by the attendees, as the material presented did not correspond to the common tips someone can get access to and fail to link with today's markets.

In addition, not everyday you have the opportunity to get an insight on useful tools, material and resources based on someone's personal experience and link with the young audience's main concerns for their future.

The workshop material covered concepts related to key areas which included:

- Developing soft skills for effective communication
- Understanding someone's limits by understanding the effective development zone between the comfort zone and the stressful zone.
- The importance of taking measurable risks to develop oneself further.

About the speaker
In this case, the workshop around career development was organised by Alberto Lorente Leal, current Chair of YP Affinity Group Sweden.

“Packaging Tools at Nordpac Chalmers event”



Alberto Lorente Leal,
current Chair of YP
Affinity Group Sweden.
Keynote Speaker

More Section Congress News

According to Samarth Deo, the Executive Vice-Chairman, IEEE Sweden Section who also attended the congress, said “The IEEE Sweden Section was well represented at the event, with Mats Edvinsson traveling as a primary section delegate; Samarth Deo traveling as Vice-Chair of the Section and Margaretha Eriksson traveling as the IEEE R8 Director. The event had a gathering of around 1200 IEEE members from around the world and witnessed more than a 100 sessions during the three-day event. Besides there were numerous talks, named IGNITE sessions throughout the event. IEEE R8 Meeting was also organized two days before the Sections Congress at the same venue. Here are some points from the Sections Congress sessions.

1) Focus on IEEE Collabratec

A new version of Collabratec is on the way out soon. With its much improved interface, ease of use, Collabratec aims to become the Facebook for IEEE members where members have access to Networking and Messaging tools, Community Building Tools and Tactics, Career Development and Mentoring tools among other key points. In essence, Collabratec can be a one-stop platform for discussions, tools, mentoring and networking- for Sections, Regions and IEEE at large. More information and resources available at: <http://iee-collabratec.ieee.org>

2) IEEE Certificate Program

IEEE Certificates Program offers Sections the opportunity to award IEEE Certificates for their events. Certificates can awards continuing educations units, professional development hours or simply recognize participation. Through an easy, automated online application process, IEEE Educational Activities offer this service to all Sections. The process is simple and the certificates are delivered directly to the participants on ordering. IEEE maintains an official registry of all certificates awarded. It makes accounting to state licensing boards an easier task for engineers.

3) IEEE Educational Activities Programs

IEEE Educational Activities Board recommends policies on educational matters and implements programs specifically intended to serve the educational pursuits of IEEE members, the engineering and scientific communities and the general public. More information: https://www.ieee.org/education_careers/education/eab/eab.html

4) vTools officer reporting, Resume Lab, Writing Your Article

vTools is a site developed by volunteers for IEEE members and IEEE volunteers. The toolbox aims to simplify organizational efforts and administration by offering web-based software in order to reduce time spent on managing activities and to assist in member development. Some useful tools for the section are- vTools eNotice, vTools Events, vTools Officer Reporting, vTools Officer reporting etc. More info: www.sites.ieee.org/vtools

IEEE Resume Lab is an online service that allows IEEE members to develop a resume or CV using a wide array of templates. Members can also perform mock interview using around a 1000 interview questions. The service is free for IEEE members.

5) Other sessions and overall impression:

Focus on Young Professional and Women in Engineering: A number of sessions focused on Young Professional and Women in Engineering on how to involve them in IEEE and retaining their membership over years.

There were also sessions on IEEE Smart Village, Smart Grid Success Story, IEEEExtreme among many others.



At the Educational Activities Booth



At Vehicular Technology Society Booth to the left and the IGNITE sessions on the right

Academia Meets Industry

IEEE Sweden Action for Industry (AFI) organized event on Resilient Cyber-physical systems on June 20, in Stockholm. The talk was given by Dr. Viacheslav Izosimov, *Senior Member IEEE*, and discussed new engineering paradigms to address new challenges in Cyber-physical systems. The engineering paradigms should address external states of environment, unknowns and approximations. The focus was on dependability and security that are often conflicting properties to the performance and the perceived user-value. Resolving dependability and security challenges is of ultimate importance for future ultra-complex software-intensive smart systems, especially for those with autonomous and cooperative functionality, with multiple property contradictions. Future robotics with advanced cognitive artificial intelligence will control ultra-modular self-configurable mechatronic actuators. These actuators are not in the lab – autonomous cars already drive, soon robots will cook, provide medical treatment and play with kids. The talk targeted current and upcoming threats in the emerging world of connectivity and unlimited computing possibilities, looking at combining of cyber-physical system properties into optimized co-existence.

Many things happen when it comes to relationship between industry and academia, with industry looking for new engineers and competences and academia looking for new exiting research partners at industry. IEEE Sweden AFI looking into organization of events that can be of mutual interest for both industry and academia, IEEE mentorship program, programming competitions and other exciting activities. The topics of coming seminars include safety and security for infrastructures, IoT, IIoT, autonomous safety platforms and architectures. Discussions are ongoing for establishing the mentorship programs in industry and we are looking for prospective topics for competition, for example, green energy.



Viacheslav receiving a Docent diploma from the Royal Institute of Technology

AWARD

Congratulations to VTCOMIT for winning the IEEE 2017 Information Theory Society Chapter of the Year Award. The Award recognizes annually a chapter that has provided their membership with the best overall set of programs and activities. Award details can be found here:

<http://www.itsoc.org/honors/chapter-of-the-year-award> .

IEEE Election

Election of the global **IEEE President-Elect 2018**.

All IEEE members world-wide (except Student members) have started to vote and it will last till Oct 2 2017. Let your Vote count. The candidates are Fellow Vincenzo Piuri and Life Fellow Jacek Zurada as candidates for 2018 IEEE president-elect. The candidate chosen in this year's annual election will serve as IEEE president in 2019
More info on

<http://theinstitute.ieee.org/resources/election/meet-the-candidates-for-2018-ieee-presidentelect>