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IEEE SE MN2017-04

Editorial

Industry partners and the entire academic world are seeking out for collaborations that will help them make the wisest decisions when it matters most in terms of novelty and satisfaction of consumer's wishes. The secret to a career of wonders is consistency in interaction with peers because it inspires creativity. I have learnt that when you are inspired and passionate about your work, everyone notices. Your excitement attracts both people and offers you what you never expected.

A message from the Sweden Section Chair

Dear IEEE Members, 2017 has been an exceptional year for IEEE Sweden: E g the first IEEE Milestone in Sweden, Sweden hosting the IEEE R8 meeting, Swedish chapters and individuals have received prestigious awards, activities related to Women in Engineering and Next Generation (Students, Young Professionals) are developing well, as well as interaction with industry and between chapters. Still, more can be done, which was discussed at our annual workshop in Oct, where

This is what qualifies us as problem solvers. At the start of the year, the IEEE Sweden section put together educational and industry packages for career enhancement. We are proud that we delivered as the funds could allow us in advancing IEEE Sweden section. This body remains the right channel to top up your knowledge and connect you to the right people that will keep adding substance to your creativity. Another Year is coming fast, it is time to renew your membership. It is time to refocus, it is time to make some new

friends, new connection, new goals and set new target. We shall vigorously undertake membership drive in the coming year. 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, Celestine Iwendi celestine.iwendi@ieee.org or the Sweden Section Chair Mats Edvinsson, mje@ieee.org

Chapters, WiE YP SB and Section board met and discussed way forward and areas to improve.

Please, stay updated by checking our '**Upcoming Events**' on our new website (accessible via <http://sites.ieee.org/sweden/> or www.ieee.se)

Please mark **14 March 2018** in your calendar; **IEEE Sweden Section AGM**, Annual General Meeting. As always, we intend to broadcast a lecture by a key note speaker via IEEE WebEx, if available.

The Section, Chapters and Affinity Groups are now preparing to close 2017. AGM documents will be available on the website.

A reminder; We constantly look for members who would like to contribute to IEEE as a volunteer, e g the Sweden Section Board. Please consider to nominate yourself, or a friend, to the Nomination Committee; a.lorenteal@gmail.com.

Last but not least;
SEASONS GREETINGS !
Mats Edvinsson, Chair IEEE Sweden Section

IEEE Sweden Chapter Chair Workshop, 5th Oct. 2017

IEEE Sweden (Section, chapters, affinity groups) has been progressing last few years, which has been recognized by IEEE and Region 8 in various ways. We would like to continue and extend this further. Since 2013 it has proved very fruitful that once a year meet, network and exchange experiences and ideas – many industry and academic topics today cut across disciplines, even more so in the future.

In Sweden we aim for getting more done, preferably with less individual efforts; hence try to be more forward looking and cooperating both within and outside IEEE. Therefore, we should continue and expand scaling where possible, e.g.: Combine chapter initiatives with next generation (YP, SB) & Women in Engineering, as this brings many positive interactions. Where possible, engage industry partners, agencies etc, and maybe a non-IEEE organization. Sweden could maybe do more on a pan-Nordic basis. More ad-hoc cooperation between chapters, as many IEEE members exposed to crossing topics; for example

traditional devices getting connected, 'automation' migrating various forms, technology getting closer to humans & life, devices & systems become more sensitive/vulnerable etc. We should continue to improve the operation of IEEE Sweden, to the benefit of our members: Learning from each other and sharing, e.g. how to raise funding from parent society or external parties. Keep our members informed; chapters and AG's enter all (planned) initiatives on the Sweden website - 'Upcoming Events'. Use IEEE tools, (e.g. WebEx) for broadcasting events to members, and (e.g. Collabratec) to cooperate & work across long distances. Submit a summary of events done to the Members Newsletter. We will continue with forward planning and sharing; To alert our members, to identify opportunities for cooperation with others, and for prudent handling of execution,

financial funding & accounting. The latter is now on the IEEE agenda; Region 8 is using Sweden as one example of improving operation.



IEEE Sweden WIE activities



The chair YP Alberto Lorente leading the workshop



The chair of WIE welcomes the participants”



On the photo the vice chair of WIE Eleonora De Luca welcoming participants.

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During the last couple of months, IEEE WIE has organized two events. One of them was “**Introduction meeting**” held on the 27th of September. During the event ladies had the opportunity to meet and socialize with other female researchers and students at KTH, share their professional experiences and get to know about WIE future activities. WIE has established collaboration with Women PhD Candidates at KTH Network (WOP@KTH) who also participated in the event. To make the event even more interesting for attendees, WIE invited the speaker Katarina Stensson, PhD student representative at Applied Physics and Co-Founder & CEO at Lara, a start-up in the field of education technology. She gave an inspiring talk about her experience as a PhD student running a

start-up.

On the 1st of November, WIE and YB IEEE Sweden hosted the event “**Workshop on Curriculum Vitae**”. During the past years the workshop has been very popular, so it became our annual event. The workshop was given by the chair of YP, Alberto Lorente. He has been working in the software & large scale systems in industry for 5 years and currently works at iZettle in Stockholm. Alberto has been involved in interview processes in his former jobs and has the knowledge about the insights of the recruitment process.

The workshop was divided in 2 parts:

- Curriculum Vitae - How to sell yourself!

In this part of the workshop, the speaker

gave tips and tricks to build a successful CV (structure and content) and cover letter that will get high interest from recruiter.

- Effective Interviewing Skills

In this second part of the session, Alberto described the interview process, things that a candidate needs to consider and preparation process for the interview which can vary from company to company. He explained how potential employers could develop different ways to handle the interview and also mentioned some tricks one can apply to increase the chances to get the job.

Electrification and Efficiency workshop at the Energy Agency

On Dec 7, a multiple Chapter workshop was organized at the Swedish Energy Agency's (SEA) Testlab on Rosenlundsgatan 9 in Stockholm by IEEE Action for Industry, SSC/CAS, SIT and PE/PEL Chapters jointly with the host Swedish Energy Agency and visiting researchers from the Lighting Research Center (LRC) in Troy, NY (www.lrc.rpi.edu). The topic was how awards could stimulate electrification and energy efficiency in Sweden. Christofer Silfvenius (IEEE SIT and Swedish Energy Agency) introduced the workshop with a brief overview of the climate challenge and link to the future of the Swedish energy system. In general, the workshop focused on power generation, transformation, transport and usage. Viacheslav Izosimov (IEEE Sweden Action for Industry) presented the background for the idea of Award or Challenges. Prof. Lina Bertling Tjernberg (Chair PE/PEL) presented how energy usage in transportation is changing with electrical vehicles, Swedish smart grid projects in Stockholm, Gotland and Hyllie in Malmö. Joachim Rodrigues (Chair SSC/CAS) presented how datacenters and digital

services like Bitcoin consume vast amounts of energy. Ted Johansson (Vice Chair SSC/CAS) presented how energy harvesting technologies can replace batteries in the growing Internet-of-things sector (and some historic battery-free radio solutions). Pierre-Jean Rigole (Dept. of Research and Innovation, Swedish Energy Agency) presented how research financing had successfully resulted in improved efficiencies in high power electronics based products. Prof Mark Rea from LRC from NY gave an appreciated talk on new light and health applications. Carl-Martin Johborg of the Swedish Energy Agency presented his experience of the SEAD award (Super-Efficient Appliances Deployment) and the Global Lighting Challenge and its Swedish variation 'Belysningsutmaningen'. After the workshop, a lab tour of the Energy Agency's energy efficiency laboratory was organized by Jonas Pettersson. According to Christofer Silfvenius: "I believe it was a great success, from many points of view: It was a cross Chapter collaboration and very appreciated to share information between Chapters. Also, speakers

from SEA enjoyed learning from other SEA departments as well. Of course, the IEEE - SEA interaction was appreciated by everyone." It was an appreciated event and a follow up open for all Chapters and Affinities is already discussed were various topics can be discussed from an electrification or energy efficient point of view. Please send a request to christofer.silfvenius.se@ieee.org and viacheslav.v.izosimov@ieee.org if you are interested in presenting or joining!



“Road to 5G & Photonics for 5G Mobile Networks”, Gothenburg, 17 Sep

IEEE Photonics Sweden sponsored the workshop, which was part of 43rd European Conference on Optical Communication.

The 5G network evolution drives distinct technologies and applications forward. Massive capacity, massive connectivity and diverse deployment scenarios bring the big challenges to 5G.

Topics included; global 5G vision & roadmap, applications & technology; technology integration from radio & optical access networks to the last meter; transformation of radio access

networks (RAN); and future technologies enabling post 5G.

The all-day event hosted 16 invited speakers from vendors (Ericsson, Nokia, Huawei, NTT, InterDigital Europe, ADVA Optical Networking), operators (BT, NTT Docomo) and academia (7 universities, including KTH).

150 people attended. The programme is available at <http://ecoc2017.org/programme/workshops/road-to-5g/>.



“Women’s Leadership in Science and Technology”, Gothenburg, 19 Sep

RISE Acreo and IEEE Photonics Sweden sponsored the workshop, which was part of the ECOC 2017 conference, <http://ecoc2017.org/programme/special-events/>

The goal of the event was to promote personal and professional growth for women in Science, Technology, Engineering & Mathematics (STEM).

104 people were registered.

The event was opened by Dr. Qin Wang, RISE Acreo.

Dr. Rene Essiambre, IEEE Photonics Vice-President and Lauren Mecum jointly chaired the event.

Lauren and Dr. Christopher Jannuzzi, Executive Director, IEEE Photonics Society briefed on IPS and Diversity & Inclusion Programs.

The event featured three invited speakers from the industry:

Pia Sandvik, CEO RISE, has switched between research and the business sectors, and that’s something she enjoys. Her aim for RISE is to focus on both coordination synergies and develop new services that benefit customers and society

Dr. Linda Mondin from European Space Agency (ESA) announced European Women in Space Technology Initiative.

Anna Rathsmann, Vice President & CTO, Technology & Innovation, Swedish Space Corporation (SSC). Her role as CTO is to provide the technical vision, support the business development, sets the tone and guides direction for the company’s development and deployment of core technologies.



Elected

Professor Arnold Pears, IEEE Sweden, has been elected into the IEEE Education Society Members-At-Large of the Board of Governors (2018-2020). Congratulations!!!

Season’s Greetings!!!