IEEE SE MN2017-02

Editorial

The vital part of life that will propel anyone to the citadel of excellence is to strive to always be positive, thinking success not Failure and to beware of negative environment or association. We in the IEEE Sweden section have become part of the generation that encourages people to be their best either in the industry or in the academic sector. Therefore, by encouraging others who are not yet IEEE members to join us is the best you can offer in order to make them fulfill their purpose and be connected to others that will make them happen someday in their career.

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, mje@ieee.org

A message from the Sweden Section Chair

Dear IEEE Members,

Although the Swedish weather was a bit colder than usual, there were a lot of energy and hot topics in the IEEE activities this Spring.

Sweden has now been dedicated the very first IEEE milestone. We bring you a summary and a link to the web for more info.

5G and IBM Watson are hot topics – in many aspects. A well received Watson seminar was held at Chalmers. EU has expressed concerns on 5G development so far, should speed up.

Fortunately, there will be a 5G seminar in September, Gotheburg. More details in this NL.

Learning from experience is usually a good way forward. We breifly summarize the seminar 'Events that changed the IT world', which was held in Linköping and Stockholm.

IEEE WIE (Women in Engineering) organized a workshop in April, dedicated to Cultural Competence as a key skill to work in international teams. Very well received.

Regarding the future of IEEE, please use your right as an IEEE member and vote during Aug 15 to Oct 2 for the next leader of IEEE global. More details at the end of this newsletter

Mats Edvinsson,

Chair
IEEE Sweden Section

The very first IEEE Milestone in Sweden – "Gotland HVDC link, 1954" awarded to ABB and Vattenfall
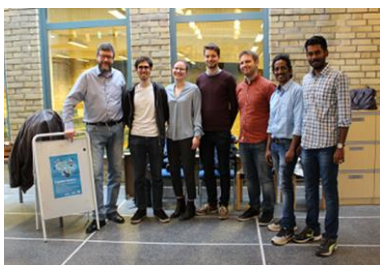

From left to right in picture above: Olof Samuelsson, IEEE Sweden PES/PEL Chapter. Lina Bertling Tjernberg, IEEE Sweden PES/PEL Chapter Chair, Magnus Callavik, head of R&D for the ABB business unit Grid Integration, Annika Viklund, Senior Vice President, Vattenfall Business Area Distribution and Niklas Persson, head of the ABB unit HVDC, and Mats Edvinsson, Chair IEEE Sweden Section.

On May 15th, 2017, Vattenfall and ABB became proud receivers of the prestigious IEEE milestone – they made the excellent and groundbreaking technical achievements in 1954. The very first IEEE milestone in Sweden was dedicated by Mats Edvinsson, Chair IEEE Sweden Section and the sponsor at a ceremony at the HVDC station at Ygne, Gotland, Sweden. The nomination process was led by Prof. Olof Samuelsson and Prof. Lina Bertling Tjernberg, IEEE Sweden PES/PEL Chapter. Let us note that "The Gotland HVDC Link was the world's first commercial HVDC transmission link using the first submarine HVDC cable. It connected the island Gotland to mainland Sweden. The 96 km-long cable used mass-impregnated technology. The Swedish manufacturer ASEA (now ABB) produced the link for Vattenfall led by Dr. Uno Lamm." A summary pdf and additional information is available here.

5G: EU warns Member States to Hurry

By 2020, the faster Internet standard 5G is to be introduced in Europe. However, according to the EU Commission, the Member States are slowing down this trend. It therefore urges them to hurry and tidy up as quickly as possible. According to the report, the EU Commission and the individual states are in agreement where the European users will soon be able to benefit from even faster Internet connections for their mobile phones. 5G, is the name of the new technology that will enable this. But, according to the Vice-President of the European Commission, Mr Andrus Ansip, the individual States are now deliberately delaying the decision-making process: "I am aware that the political will to approve our proposals is a very unjustified resistance. The longer it takes, the longer the Europeans have to wait for 5G". He said we risked falling behind in the global competition during the presentation of his interim balance of EU digital plans. And European Union should maintain an international top position in this area. Source. here.

Watson: Jeopardy-winning robot from IBM

On April 27, IEEE Chalmers Student Branch invited the people behind the scenes of Watson to present their vision of the future, titled "Cognitive Systems, your future colleague?". IBM Sweden CTO Mikael Haglund talked about the rise of cognitive computing, Watson and how this has opened up new opportunities for the world in a myriad of visible and invisible ways. After this, his colleague, a recent Chalmers graduate, consultant Sofia Andersson talked about a more specific example, how Watson is transforming healthcare and life science. With uses as a tool to enhance both research, diagnostics and treatment options, the power and flexibility of cognitive systems becomes abundantly clear. They also spoke about what the working life is, and how to make a career in the field. With over 60 participants, the event was well attended and appreciated, and the students took the opportunity to ask the speakers about future technology and career opportunities.

Seminar: Events that Changed the IT World

Experiences and Reflections of a Computer and Systems Engineering Pioneer

Harold "Bud" Lawson

IEEE Life Fellow, Inventor of the Pointer Variable and Recipient of the prestigious IEEE Charles Babbage Computer Pioneer Award as well as the INCOSE Systems Engineering Pioneer Award

Presented on April 4 in Kista and sponsored by Swedsoft and RISE (SICS) as well as June 8 in Linköping sponsored by Swedsoft RISE (SICS East) and Mjädervi Science Park

As we march into the future it is vital to understand the side effects of the events that changed the world of Information Technology

Harold "Bud" Lawson has been a leading pioneer in the computing and systems arenas. In this seminar he shared some of the significant highlights of his long career in the development and usage of computer technology including revealing several surprising details "behind the scenes events" in the development of computing technology and the computer industry. His experiences and reflections have been published in a chapter of the book *Reflections on the History of Computing: Preserving Memories and Sharing Stories (IFIP Advances in Information and Communication Technology, 2012)*.

Bud Lawson has lived and worked in Sweden for over 46 years where he has made several significant contributions to the industrial, military and academic sectors. His professional career began in 1959 under the leadership of the legendary Rear Admiral Dr. Grace Murray Hopper at Remington Rand Univac in Philadelphia. During his long career he participated in several pioneering developments in software, hardware, computer based systems and international standards. For his 1964 invention of the pointer variable concept in programming languages he was awarded the prestigious IEEE Charles Babbage Computer Pioneer award in 2000. He has also received the INCOSE Systems Engineering Pioneer award in 2016 for his life long contributions to the unification of Software and Systems Engineering.

Biography

Harold "Bud" Lawson (born 1937) is a software engineer computer architect and systems engineer. Lawson is credited with the 1964 invention of the pointer.[1] In 2000, Lawson was presented the Computer Pioneer Award by the IEEE for his invention.

In July, 2010 he published a new book entitled A Journey Through the Systems Landscape (ISBN 978-1-84890-010-3) with College Publications. The book provides a comprehensive discipline-independent approach to learning to "think" and "act" in terms of systems. Amongst several academic appointments, his last position was as Professor of Telecommunications and Computer Systems at Linköping University where he co-founded its Department of Computer and Information Science in 1983.
He is a Fellow of ACM, Fellow and Life Member of the IEEE, and Fellow of the International Council on Systems Engineering INCOSE.

Harold "Bud" lawson

"Investing in innovation is critical to raising long-term economic growth," WIPO Director General Francis Gurry.

Workshop: Dedicated to Cultural Competence: Activities of IEEE WIE Sweden Section

"Elena Vasileva
Chair, IEEE WIE Sweden
Section at KTH

EKATERINA VON GERTTEN
Aperian Global
Keynote Speaker

Nowadays the majority of the people working in Science and Technology can face not only the gender issues at a work place, but also the multicultural differences which complicate the situation even further. One needs to build up the professional relationships and get the work done through communicating across cultural boundaries. Dealing with these cultural differences demands a special knowledge in order to succeed with an international career. Therefore, cultural competence is named as one of the key skills for achieving efficiency in diverse teams.

At 6th of April WIE IEEE Sweden Section has organized the workshop dedicated to Cultural Competence as a key skill to work in international teams. The workshop had over 50 registrations, and about half of people have participated in it. The event started by the welcome speech given by the chair of WIE IEEE Sweden Section, Elena Vasileva. In her talk, Elena welcomed the participants and mentioned the purpose and activities WIE section does to motivate new comers to join. Afterwards, the chair of YP IEEE Sweden Section Alberto Lorente Leal has promoted the YP section and gave a word to the invited speaker, Ekaterina von Gertten. Ekaterina is a Director of Consulting at Aperian Global which is one of the major consulting companies within the sphere of global talent development. In her role Ekaterina is responsible for designing and delivering solutions for major Global 500 clients in areas such as Teaming Effectiveness, Global Leadership Development, Global Mindset Development, and Diversity & Inclusion. She has planned two hours workshop to be very interactive with audience. It included theoretical part where she explained how our cultural background shapes our personalities and our behaviors in the professional context; and practical part where she asked the participants to apply the knowledge they just received to solve some potential problems in a cultural context.

Besides IEEE WIE Sweden Section, the event has been supported by KTH Royal Institute of Technology in Stockholm, Aperian Global, YP Sweden Section and IEEE Student Branch.

The keynote speaker was EKATERINA VON GERTTEN Aperian Global Keynote Speaker
"Ekaterina is Director of Consulting at Aperian Global, a major consulting firm within the sphere of global talent development. Ekaterina is responsible for designing & delivering solutions for Global 500 clients in areas such as Team Effectiveness, Global Leadership Development, Global Mindset, and Diversity & Inclusion. Ekaterina holds a Master's Degree in Linguistics and a Bachelor's Degree in Opera singing. She has lived and worked in Belarus, Austria, the U.S., the United Kingdom and Japan. She is currently a motivational speaker with the Athenas Speakers Bureau in Sweden.
For more info:
https://www.kth.se/sci/centra/adopt/seminarier
On behalf of WIE IEEE Sweden Section,
Elena Vasileva

BEST PAPER AWARD.

IEEE Software Best Paper award was Presented to Harold Lawson for the paper coauthord by Saad Mubern, John Lundbäck, Mattias Gålnander and Kurt-Lennart Lundbäck. Entitled "Provisioning of Predictable Embedded Software in the Vehicle Industry: The Rubus Approach at the 4th International workshop on Software Engineering Research and Industrial Practice, Buenos Aires, Argentina on the 20th-28th May 2017.

Event Sponsorship Award

The PHOTONIC Society has been awarded 5 000 USD to provide lunch as part of a bigger conference called European Conference on Optical Communications with some 30 or 40 years tradition.
ECOC 2017 WORKSHOP - "Road to 5G and photonics for 5G mobile networks"
Genexis, Ericsson and NTT are pleased to invite you to the workshop "Road to 5G and photonics for 5G mobile networks" that will take place during the 43rd edition of ECOC in Gothenburg.
Date: Sunday, Sep 17th, 2017
Time: 9:00-13:00 and 14:00-17:30 with an hour lunch break and coffee breaks in both morning and afternoon sessions
Location: Svenska Mässan in Gothenburg, Sweden

MGA Achievement Award 2016

IEEE Sweden WIE Chairperson Nasim Farahini has been selected as the Recipient of the very prestigious MGA Achievement Award 2016:
For her outstanding contributions in promoting student activities, and for establishing and reinforcing the network of women engineers in the IEEE Sweden Section.

IEEE Election

Election of the global **IEEE President-Elect 2018**.
All IEEE members world-wide (except Student members) vote during Aug 15 – Oct 2 2017.

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