



# IEEE Sweden Section Annual Report Fiscal Year 2016

## Major Meetings and Events

The **VT/COM/IT Chapter** held 20 technical meetings and workshops. E g hosted the annual Swe-CTW in May in Sundsvall, aligned with SNCNW. Workshops on vehicular 5G in May and 5G air interface in Sep in Gothenburg, optical fibres with Ericsson in Sep in Stockholm, RNDM workshop in Sep and WWVC in Nov in Halmstad. Annual SYP contests on both journal and conference papers. The **CPMT Chapter** is fully pan-Nordic since 2016 and held 10 tech meetings, e g; IMAPS conference, bi-monthly seminars, a visit to SINTEF in Norway, active students pan-Nordic. The **RA Chapter** hosted the ICRA - International Conference in Robotics & Automation - with 2000 attendees in Stockholm in May, a 2-day workshop in Örebro, and a workshop on Robotics education in Lund. The **PE/PEL Chapter** held 4 tech meetings; DL in Stockholm, a workshop on microgrids, a lecture on power electronics related to ESS in Lund, and a joint seminar with SIT Chapter. The **C Chapter** had 10<sup>th</sup> MODPROD workshop and 8<sup>th</sup> Open Modellica workshop in Feb in Linköping, and ISPASS in April in Uppsala. The **E Chapter** with pan-Nordic cooperation participated in the LaTiCE in April in Mumbai. The **ED Chapter** held 3 seminars; phase transition FET, semiconductors for next generation power electronics, and RF technology. The **EMB Chapter** held 2 events in June; symposium on bionic and neurorehabilitation at CTH, conferences on bio-impedance at KI, Stockholm. The **EMC Chapter** held 3 tech meetings: autonomous drive & safety in Nov, electronic environment in Apr and wireless systems in Mar. The **MTT/AP Chapter** held 6 tech meetings and workshops, e g; THz applications, ultra-high efficiency phased arrays, signal processing for future radio, antenna arrays, and package sensors with antenn. The **IA Chapter** is working on revitalization. The **MAG Chapter** organized the MXLS-16 workshop in March, the Baltic Spin conference in Aug, and a workshop on magnetodynamics in Gothenburg in Oct. The **P Chapter** had a laser workshop in May at CTH, photonics & electronics for School children with ACREO, workshop of optical fibers with Ericsson, co-sponsor Best MSc thesis award. The **SP Chapter** had DL web & seminars in May on modulation in wireless systems, and in June on convexity etc. The **SIT Chapter** arranged the IEEE Smart Village Project Lecture by Raymond Larsen, jointly with PE/PEL in Nov in Stockholm. The **Student Branches, YP** and **WIE** activities continued, with increased focus on blending industry & academic events.

## Board Activities

During 2016 the IEEE Sweden Section Board had 13 regular board meetings by tele conference, and face-to-face meeting at the AGM. The re-vitalization process of the Sweden Section continues, since started 2014. Much **industry focus** this year, including Entrepreneurship seminar with

Vinnova in May, an EMC workshop with ICES in Sep, a webinar on 5G trends in Nov, and workshop in Dec on 5G networks service management. Improved procedures and economic management. Continue to invest in the next generation; SB YP WiE. For the 4<sup>th</sup> year, we held a successful joint Oct chair workshop with the Section, Chapters, YP, WiE and SB, with almost all chapters participating physically or via web. This was combined with IEEE Day celebrations **Student Branch Chalmers** – the first SB in Sweden 1966 – was revitalized: First seminar held in Nov with speaker from NEVS on active safety, and Section Chair

## International Activities

On Nov 2016, the IEEE Board of Directors approved the first official Swedish **IEEE Milestone** in Electrical Engineering & Computing; the world's first commercial submarine HVDC cable to Gotland 1954. IEEE Region 8 Opcom has decided **Stockholm** will host the R8 meeting in March 2017. A team led by Chair Mats Edvinsson is making preparation. Margaretha Eriksson, R8 Director-Elect & Section Chair Mats Edvinsson attended the **R8 in Monte Carlo** in March, and the **R8 in Portugal** in September. Alberto Lorente Leal and Akash Kiran Neelap attended in Aug the **R8 SYP Congress** in Regensburg, Germany

Nasim Farahini received the very prestigious **MGA Achievement Award** 2016. Sweden received the 2016 **Region 8 Outstanding Young Professional** Affinity Group. Dr Nazre Batool won the **Clementina Saduwa Award** Women in Engineering. VT/COM/IT Sweden won the 2015 **Region 8 Chapter of the Year Award** and the **Vehicular Society Chapter of the Year Award** 2016. Rune Persson received a **Membership Development Award**. Sweden Section awarded for hosting the R8 Nomination Committee meeting in Stockholm in July 2016

## Members

The Section had in total 2 222 members, including associates and affiliates in the end of Dec 2016, of which 322 Senior Members and 54 Fellows. The Section organized senior elevation meetings in Lund and Stockholm. Successful elevation of 68 new Senior Members and 8 new Fellows in 2016.

## IEEE Sweden Section Board 2016

**Mats Edvinsson**, Chair  
**Christofer Silfvenius**, Treasurer  
**Luis Guillermo Martinez**, Vice Chair  
**Samarth Deo**, Secretary  
**Rune Persson**, Membership Development  
**Viacheslav Izosimov**, Member, Industry relations  
**Nasim Farahini** (spring 2016), Member, supervisor of Young Professionals, Student Branches and WiE.

Stockholm, January 31, 2017

*Mats Edvinsson*,  
Chair, IEEE Sweden Section