

IEEE Sweden Section Annual Report, Fiscal Year 2017

Section activities and achievements

Efforts, endurance & long term perspectives have paid off in 2017: The **first IEEE Milestone** in Sweden ever - the world's first commercial submarine HVDC cable to Gotland 1954. A **new web** in place, more useful for practitioners and more informative to members. We hosted the **IEEE Region 8 meeting in Stockholm** in March, very much appreciated for the content and organization. The cooperation across the entire Section, academia and industry is developing well. Sweden is becoming a role model for transparency, planning, budget and operation – which led to a **presentation at the global IEEE Section Congress** in Sydney in Aug. Thank you all !

Major Meetings and Events

Unfortunately, not all events were properly reported to IEEE – improvements needed. The **VT/COM/IT Chapter** held 20 tech events, incl Swe-CTW 2017 in Gothenburg, WWVC 2017 in Halmstad, 4 DL tours, tech sponsor of COST ACROSS Summer School in Karlstad, CAMAD 2017 in Lund, and SNOW 2017 at Riksgränsen. The **P Chapter** continues to grow members & activities; ‘Road to 5G’ ws with industry speakers in Gothenburg – combined with the WiE leadership ws, Optics & Photonics ws in Nov in Sthlm, Nanophotonics ws CTH in Nov. The **PE/PEL Chapter** hosted the HVDC milestone in May at Gotland, a HVDC workshop in Västerås and a joint event with ED and SSC/CAS. The **C Chapter** had 11th MODPROD workshop in Linköping, and IFIP WG in Göteborg. The pan-Nordic **E Chapter** participated in the workshop at FIE by ASEE and IEEE. The **ED Chapter** held 14 seminars, of which 1 with PE/PEL. Since 2017, several board members are editors for Electron Device Letters or the Journal of the Electron Devices Society. The **EMB Chapter** held 2 events; Smart Textiles for Healthcare, and Bionic Limbs & Neurorehabilitation. The **EMC Chapter** held 2 tech meetings of which 1 jointly SNRV. The **Electronics Packaging Chapter** (former CPMT, pan-Nordic since 2016) held 3 tech meetings (incl a DL seminar), bi-monthly seminars, and arranged the Nordpac 2017 conference with IMAPS. The **MTT/AP Chapter** held 3 tech meetings and workshops; DL in Sep in Lund, participated in APS student design contest, AP chair meeting US, coordinate with Finland & Denmark. The **IA Chapter** works on revitalization. The **MAG Chapter** organized 2 workshops with int'l speakers – SPIN June and Magneto-dynamics July. The **RA Chapter** held 2 tech meetings. The **SP Chapter** held 2 events; a DL on inference & learning of large-scale social networks, and design large neural networks. The **SSC/CAS Chapter** engaged in Swedish Energy Agency seminar on Electrification Challenges. The **SIT Chapter** work on revitalization, focus on ad hoc Committee in the North & South Pole.

Special seminars on ‘**Events that Changed the IT World**’ in Linköping & Stockholm, with Swedsoft &

RISE, with Harold ‘Bud’ Lawson (Charles Babbage Award & INCOSE System Engineer Pioneer Award)

The **Student Branches, YP** and **WIE** activities continued, with increased focus on blending industry & academic events. Events include workshop on ‘cultural competence’ in April, YP Step (student transition & elevation partnership) at Nordpac CTH in June, the “Introduction meeting” in Sep and “women’s leadership” with P chapter in Sep, annual “workshop on CV” and a “Student workshop” at KTH in Nov.

Much **industry focus** also this year, e.g workshop on Safety and Security for Autonomous Systems in Jan, workshop on resilient cyber physical systems in June, and the electrification & efficiency ws at the Energy Authority with ED, PE/PEL and SSC/CAS chapters.

Board Activities

During 2017 the IEEE Sweden Section Board had 10 regular board meetings by tele conference, one per capsulam, and a face-to-face meeting at the AGM. The progress of the Sweden Section continues and delivers results, since started 2014. We continue to invest in the next generation; SB YP WiE. For the 5th 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; mutual learning, inspiration and cooperation.

International Activities

The IEEE Region 8 meeting was held in **Stockholm** in March 2017. Margaretha Eriksson, R8 Director, Section Chair Mats Edvinsson and vice-Chair Samarth Deo attended the **R8 and Section Congress in Sydney** in Aug with 1200 participants. VT/COM/IT Sweden won the 2017 **IEEE Information Theory Society Chapter of the Year Award**. Arnold Pears was elected into the Board of Governors (2018-2020) of the Education Society

Members

The Section had in total 2 130 members, including associates and affiliates at the end of 2017 (7 Jan 2018), of which 345 Senior Members and 55 Fellows..

IEEE Sweden Section Board FY 2017

Mats Edvinsson, Chair
Samarth Deo, Vice Chair
Christofer Silfvenius, Treasurer
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Celestine Iwendi, Newsletter Editor
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Stockholm, January 29, 2018

Mats Edvinsson,
Chair, IEEE Sweden Section