

IEEE Photonics Society (PS) Sweden Chapter Newsletter No. Q1-2025



Newsletter editor: Arne Alping

Dear Members,

Welcome to the 1st Newsletter this year from the IEEE Photonics Society (PS) Sweden Chapter. The intention is to issue the Newsletter four times per year.

In this Newsletter:

1. Major activities and events 2024 – sponsored by the Chapter
2. IEEE Best PhD Thesis Award 2024
3. IEEE Best PhD Thesis Award 2025 – open for nominations
4. Terahertz meets the idea of silicon photonics – a lecture at KTH
5. Upcoming events: Best Poster Awards at ATTO X
6. Upcoming events: Women-in-STEM at ICNS-15
7. Upcoming events: Best Poster Awards at OPS-2025
8. Recent PhD thesis defenses & Licentiate Seminars & Docent Lectures
9. Photonics News
10. Opportunities
11. Resources
12. IEEE Distinguished Lecturer 2025
13. IEEE Photonics Society Graduate Student Scholarship
14. Administrative News
15. Future Newsletters – Possible Contents
16. Chapter Member Statistics 2025
17. Chapter Board activities 2025
18. Chapter Board Members

1 Major activities and events 2024 – sponsored by the Chapter

- The IEEE-PS Sweden Chapter's **2023 IEEE Best PhD Thesis Award** in Optics/Photonics was granted to **Dr. Max Karlsson** (Dept. of Physics, Linköping University; now at Thorlabs, Gothenburg) for his thesis entitled "*Dynamics in Blue Emitting Metal Halide Perovskites for Light Emitting Diodes*" [[link to PhD thesis](#)]. The Award received in March-2024 was **10,000 SEK** and a certificate. The Award was funded through the IEEE Photonics Society 2023 Annual Chapter Grant. The chair of the 2023 Best PhD Thesis Award Committee was Prof. Philippe Tassin, Chalmers. Max Karlsson has also been granted a similar award for the thesis – the Oseen Medal 2024 – from the Swedish Physical Society.
- On 6-7 Nov-2024 PhotonicSweden and Chalmers organized the annual **Optics and Photonics in Sweden** (OPS-2024) conference in Gothenburg. Since 2016 the IEEE-PS Sweden Chapter has sponsored the **IEEE Best Poster Awards** at OPS. The Chair of the Awards Committee was Dr. Rui Lin (IEEE/Chalmers). The Award winners were (1) **Pantea Dara** (Chalmers), (2) **Javier Tello Marmolejo** (GU), and (3) **Martin Brunzell and Adrian Vågberg** (KTH)
- On 5-December PhotonicSweden (Lennart BM Svensson) and the IEEE-PS Sweden Chapter (Prof. Qin Wang, IEEE/RISE/KTH) were organizing an **OptoPub in Kista-Stockholm**.
- A Women-in-Photonics (WIP) event **Celebrating the Nobel Prize 2024** was organized by Prof. Qin Wang (IEEE/RISE/KTH) and Dr. Shagufta Naureen (IEEE/Coherent) at RISE in Kista on 12-Dec.

2 IEEE Best PhD Thesis Award 2024

- The IEEE-PS Sweden Chapter's **2024 IEEE Best PhD Thesis Award** in Optics/Photonics was closed for nominations on 30-Nov-2024. Three (3) nominations were received (two from Chalmers University of Technology and one from Lund University).
- The Award has been granted to **Dr. Rasmus Larsson** (Photonics Lab, MC2, Chalmers University of Technology; now a Postdoc at Photonics Lab) for his thesis entitled "**High Sensitivity receivers for free-space optical communication links**" [[link to PhD thesis](#)]. The 2024 Award amounts to 10,000 SEK and a certificate. The Award was funded through the IEEE Photonics Society 2024 Annual Chapter Grant.
The supervisors were Prof. Peter Andrekson, Prof. Magnus Karlsson & Prof. Jochen Schröder.
- **Summary:** Deep space communications have historically relied on radio-wave transmission, which in the face of today's high demand for large science data-returns constitutes a bottleneck for current and future deep-space missions. A promising solution to this problem is laser communications, where light is used to transmit data, something which space agencies such as NASA are now actively pursuing and demonstrating. The short wavelength of light, compared to radio waves, significantly reduces the divergence of the transmitted beam. This allows a more concentrated portion of the launched power to reach earth, which in turn enables larger data rates. The shorter wavelength of light, however, complicates the use of large area receivers, especially when combined with sensitive coherent detection that accommodates high data rates. This thesis addresses this challenge by investigating different large-area telescope architectures, such as multi-aperture and multi-mode solutions, together with optical coherent combining, to realize efficient reception of light compatible with coherent detection. It also covers the development of a practically viable implementation of a unique type of optical amplifier in the receiver. This amplifier adds no excess noise and, hence, significantly boosts the sensitivity of detection. Results and demonstrations reported in this thesis showcases the possibility to achieve sensitive, high-speed receivers and provide important insight towards realizing future high speed deep space communications.
- The Award committee's **motivation** is: "*The Best PhD Thesis Award is this year awarded to Dr. Rasmus Larsson for his thesis on optical receivers for very long-range free-space communication. This thesis stands out for its rigorous and systematic approach, combining a thorough historical perspective with cutting-edge research contributions. Dr. Larsson provides a comprehensive and pedagogically structured overview of the field and clearly defines the state of the art before introducing his own contributions. His work offers valuable insights into the design of large-area receivers, incorporating phase-sensitive amplifiers (PSA) as pre-amplifiers to detect extremely weak signals, far beyond the capabilities of conventional optical receiver subsystems for telecom. These findings are considered timely and highly relevant, as they address critical challenges in deep-space communication, paving the way for practical implementations that could benefit future space exploration missions. Overall, the thesis demonstrates that Dr. Larsson has an in-depth understanding of his field and is able to effectively convey that understanding to people both within and outside his field*". The Awards committee also hopes that this thesis can serve as good examples for doctoral students in the early stages of their own thesis writing.
- The chair of the IEEE Best PhD Thesis Award Committee was **Prof. László Veisz**, Umeå University.
- **More info:** [Article in Optica](#), [Chalmers News](#), [forskning.se](#) (Swedish), [PhysicsWorld](#),



3 IEEE Best PhD Thesis Award 2025 – open for nominations

- In 2017 the Sweden Chapter established an Award for recently graduated PhD researchers that have written an outstanding doctoral thesis in the general area of optics and photonics and that represents a remarkably impactful contribution to their field of research.
- The IEEE PS-Sweden **2025 Best PhD Thesis Award** is now open for nominations. The award is open to all relevant PhD students whose PhD was awarded by a Swedish university between 1-Sept-2024 and 31-Aug-2025. This requires that the nominee has successfully defended his/her thesis during this period and has fulfilled all requirements to obtain the PhD degree.
- Besides the honor, the award consists of a diploma and a monetary prize of **10,000 SEK**.

- Nominations must be received by the chair of the PhD Thesis Award Committee **Prof. László Veisz**, Umeå University, by 30-Nov-2025. [[contact info](#)]

4 Terahertz meets the idea of silicon photonics – a lecture at KTH

- On 25-April **Prof. Masayuki Fujita** (University of Osaka, Toyonaka, Japan) gave a talk on “**Terahertz meets the idea of silicon photonics**”. He is an IEEE Photonics Society Distinguished Lecturer (DL) visiting Prof. Joachim Oberhammer’s group (Microwave and Terahertz Microsystems) at KTH, Kista. The meeting was co-organized with the IEEE-PS Sweden Chapter [[for more info](#)].

5 Upcoming events: Best Poster Awards at ATTO X

- On 6-11 July, Lund University organizes the bi-annual **10th International Conference on Attosecond Science and Technology** at The Loop, Science Village in Lund [[link to ATTO X](#)].
- Prof. Per Eng-Johnsson (Lund Univ) & Prof. Anne-Lise Viotti (Lund Univ) are the General Chairs. László Veisz (IEEE/Umeå Univ) is a member of the Local Organizing Committee.
- There will be 3 days with poster sessions with about 80 posters/day and IEEE-PS-Sweden is sponsoring one of the poster sessions with best poster prizes – one Best Poster Award (3,000 SEK) and two Best Poster Distinctions (1,000 SEK).
- **Prof. László Veisz** (IEEE/Umeå Univ) is the Chair of the IEEE Best Poster Prize Committee

6 Upcoming events: Women-in-STEM at ICNS-15

- On 6-11 July, Lund University and Linköping University organizes the bi-annual **15th International Conference on Nitride Semiconductors (ICNS-15)** at Clarion Hotel & Congress in Malmö.
- Vanya Darakchieva (Lund Univ and Linköping Univ), Lars Samuelson (Lund Univ) and Piotr Perlin (Unipress, Poland) are the General Chairs. Prof. Qin Wang (IEEE/RISE) is a member of the Local Organizing Committee.
- On 8-July at 17:00 – 18:30, an event on “**Women in Nitrides – diversity and inclusion**” is organized by **Prof. Qin Wang** (IEEE/RISE) and sponsored by **IEEE-PS-Sweden** through an Educational Grant from the IEEE Photonics Society. The event includes a panel discussing the importance of DEI (diversity, equality, and inclusion) in both academic and industrial sectors and the event is finished with mingling activities. The event is chaired by Prof. Qin Wang and Prof. Denis Music (Malmö Univ). Prof. Qin Wang is moderating the panel discussions. She is IEEE Associate Vice President (AVP) of Women-in-Photonics (2024-2026) and a member of the IEEE Diversity Oversight Committee.

7 Upcoming events: Best Poster Awards at OPS-2025

- On 21-23 October 2025, PhotonicSweden and KTH organizes the annual **Optics and Photonics in Sweden (OPS-2025)** conference at KTH, Electrum, Kista, Stockholm [[link to OPS-2025](#)].
- Since 2016 the IEEE-PS Sweden Chapter has sponsored the **IEEE Best Poster Awards** at OPS. There are three (3) prizes: 1x Best Poster Award (3 000 SEK) and 2x Best Poster Distinctions (1 000 SEK each). Like last year, a 1-year IEEE Student membership will be added for the awardees being students. Posters with the first author being a student (Master student or PhD student) or postdoc are eligible for the award. The poster author also needs to state that he/she is a student or postdoc when submitting the poster abstract.
- The Chair of the Awards Committee is **Prof. Qin Wang** (IEEE/RISE) [[contact info](#)].

8 Recent PhD thesis defenses & Licentiate Seminars & Docent Lectures

- On 31-Jan-2025 **Yi Sun** (Photonics, MC2, Chalmers) defended his Licentiate thesis on “*Narrow-linewidth optical coherent oscillators in ultra-low loss silicon nitride*” [[link to thesis](#)]. The opponent was Prof. Nils Johan Engelsen, Quantum Technology, MC2, Sweden. The supervisor was Prof. Victor Torres-Company, and the examiner was Prof. Åsa Haglund (both at Photonics, MC2, Chalmers)
- On 7-March-2025 **Hans Kaimre** (Photonics, MC2, Chalmers) defended his Licentiate thesis on “*Vertical-Cavity Surface-Emitting Lasers with Improved Wide-Temperature Dependence*” [[link to thesis](#)]. The opponent was Dr. Erik Haglund, NVIDIA, Sweden. The supervisor was Prof. Anders Larsson (Photonics, MC2, Chalmers – now at NVIDIA)

- On 21-March **Nils Lamers** (NanoLund, Lund Univ) defended his PhD thesis “*Development of Single Nanowire Optoelectronic Devices*” [\[link to thesis\]](#). The opponent was Prof. Maarten Roeffaers, KU Leuven, Belgium. The supervisor was Prof. Jesper Wallentin, and the co-supervisor was Prof. Magnus Borgström (both at NanoLund).
- On 28-March **Marius Plach** (Atomic Physics, Lund Univ) defended his PhD thesis on “*Intense Extreme Ultraviolet Pulses for Attosecond Pump-Probe Experiments*” [\[link to thesis\]](#). The opponent was Prof. Stefan Witte, Delft University of Technology, The Netherlands. The supervisor was Prof. Per Eng-Johnsson, and the co-supervisors were Prof. Cord Arnold and Prof. Anne L’Huillier (all at Atomic Physics).
- On 25-April-2025 **Jonas Ravelid** (Combustion Physics, Lund Univ) defended his PhD thesis on “*Development of Non-Linear Laser-Based Imaging Techniques for Diagnostics of Reactive Flows*” [\[link to thesis\]](#). The opponent was Dr. Jonathan H. Frank, Sandia National Laboratories, USA. The supervisor was Prof. Andreas Ehn, and the co-supervisors were Dr. Yupan Bao and Prof. Joakim Bood (all at Combustion Physics, Lund Univ.)

9 Photonics News

- **Amplifier with tenfold bandwidth opens up for super lasers:** In an article published in the prestigious journal Nature, a research team at Photonics, MC2, Chalmers University of Technology, in Sweden, introduces a new amplifier that enables the transmission of ten times more data per second than those of current fiber-optic systems. This amplifier, which fits on a small chip, holds significant potential for various critical laser systems, including those used in medical diagnostics and treatment. “*The amplifiers currently used in optical communication systems have a bandwidth of approximately 30 nanometers. Our amplifier, however, boasts a bandwidth of 300 nanometers, enabling it to transmit ten times more data per second than those of existing systems,*” explains Prof. Peter Andrekson (Photonics, MC2, Chalmers), the lead author of the study [\[Chalmers News\]](#) [\[link to article\]](#)
- **Q.ANT Launches Photonic Processor:** The German startup [Q.ANT](#) announced the launch of its first commercial product – a photonics-based Native Processing Unit (NPU) for high-performance computing and artificial intelligence (AI) applications in a 19-inch, rack-mountable server. According to the company (a spinoff of Trumpf) the new NPU will deliver a 30-fold improvement in energy efficiency along with significantly faster computational speeds compared with traditional CMOS technology. This feature could have far-reaching implications for reducing the carbon footprint and operational costs of AI-driven industries and data centers around the world. [\[OPTICA news\]](#)
- **60th Anniversary Celebration of the IEEE Photonics Society:** This milestone is not only a celebration of the Society’s rich history, but also an opportunity to strengthen its presence in local communities worldwide. A timeline has been created to highlight the Society’s six decades of innovation, growth, and leadership – from its roots in quantum electronics to its evolution as a global leader in photonics technology. This interactive resource allows volunteers to explore key milestones, breakthroughs, and the Society’s impact over the years [\[check out the timeline\]](#). Make the most of the [60th Anniversary toolkit](#), which offers ready-to-use materials, *i.e.*, logos, banners, virtual backgrounds and templates, to help promote celebrations.
- **International Year of Quantum Science and Technology (IYQ):** This year marks the United Nations-designated IYQ. With a mission to “*use the occasion of 100 years of quantum mechanics in 2025 to help raise public awareness of the importance and impact of quantum science and applications on all aspects of life,*” IYQ seeks to show how quantum technologies support health and well-being, reduced inequalities, industry and infrastructure, economic growth, climate action, and clean energy. The [UNESCO International Year of Quantum Science and Technology](#) (IYQ) was launched in Paris, France, on 4-5 February. More than 800 researchers, policymakers, industry representatives and scientists from around the world gathered to mark the start of the year. As a distinguished partner of IYQ, **IEEE** plays a vital role in raising awareness of quantum developments, reiterating its positive impact on humanity, and facilitating opportunities to advance research and development efforts. Given the emerging role of quantum technology in high-performance computing, artificial intelligence (AI), and many other computer science and engineering disciplines, the work of IEEE will be pivotal to its future [\[read more\]](#). See also IYO activities at [OPTICA](#).

- **The EU Competitiveness Compass:** On 29 January 2025, the European Commission unveiled the **Competitiveness Compass**, a strategic roadmap designed to strengthen Europe's economic and technological leadership. With a focus on strategic investments, regulatory simplification, innovation transition, the Green Transition and energy infrastructure reforms, the initiative aims to boost industrial resilience, scientific advancement and global competitiveness [\[link to report\]](#)
- The **Optics & Photonics in Sweden (OPS-2025)** conference is organized by PhotonicSweden and KTH on 21-23 October 2025 and the venue this year is KTH, Electrum, Kista, Stockholm. As usual, the conference will have parallel academic and industrial sessions along with an exhibition, as well as poster sessions. Day 1 on 21-Oct will be dedicated to the **Nordic Photonics Forum** featuring a "Photonics and Electronics 4 Defence" workshop [\[more info\]](#)
Since 2016 the IEEE-PS Sweden Chapter has sponsored the **IEEE Best Poster Awards** at OPS.

10 Opportunities

- **IEEE Photonics Society Career Center:** As a member of the photonics and optics community, you have access to online resources to support your search for a new job and career growth. Check out current opportunities available and use the tools to finetune your resume, prepare for interviews, and more! Find career advice and your next opportunity in photonics [here](#).

11 Resources

- The European Technology Platform **Photonics21** unites the majority of the leading photonics industries and relevant R&D stakeholders along the whole economic value chain throughout Europe. Today Photonics21 has more than 3,800 members [\[link to website\]](#):
 - "Europe's age of light! Strategic Roadmap 2021-2027" (Aug-2019) [\[link to roadmap\]](#)
 - "Photonics Market Data and Industry Report 2020" (June-2021) [\[link to report\]](#)
 - "Market Research Study Photonics 2020 – Key data 1st Edition" (July-2021) [\[link to report\]](#)
 - "Quantum PIC Position Paper" (April-2022) [\[link to paper\]](#)
 - "White Paper on Integrated Photonics" (April-2023) [\[link to paper\]](#)
 - "New Horizons – Agenda 2023-2030" (April-2023) [\[link to agenda\]](#)
 - "Photonics Industry Supply Chain Survey 2023" (April-2023) [\[link to report\]](#)
 - "Optics and Photonics Technologies Serving Virtual Worlds" (Feb-2024) [\[link to joint Photonics21 and VR/AR Industrial Coalition position paper\]](#)
 - "Insights into the dynamic photonics market (2019-2022)" (May-2024) [\[link to report\]](#)
 - "Political Steering Processes in China in Core Segments of the Photonics Industry" (July-2024) [\[link to study\]](#)
 - "Photonics – an essential technology for defence" (Oct-2024) [\[link to report\]](#)
 - "Photonics for Virtual Worlds" (Oct-2024) [\[link to report\]](#)
 - "Photonics for High Performance Computing (HPC)" (Oct-2024) [\[link to report\]](#)
 - "Photonics for the energy production market: Fusion energy" (Oct-2024) [\[link to report\]](#)
 - "White Paper – 300 mm Photonics" (Nov-2024) [\[link to report\]](#)
 - "Analysis of US Grants for Photonics R&D Funding" (Nov-2024) [\[link to report\]](#)
- Since many years IEEE-PS Sweden Chapter has collaborated with **PhotonicSweden**. It is a net-working organization with the aim of making photonics more visible in Sweden, as well as advance and support sustainable growth of relevant industrial sectors in Sweden [\[link to website\]](#):
 - "Photonics Agenda – Photonics, a Key Enabling Technology for Sweden" (2013) [\[link to agenda\]](#)
 - "Optics & Photonics in Sweden" – Facts about the Swedish photonics (2022) [\[link to brochure\]](#)
- **Photonics Research Centers:** To grow our community, the **IEEE Photonics Society** has created a research center [database](#) where members and volunteers can actively search for centers and institutions. [\[link to database\]](#)
- **PhotonHub Europe** is a "One-Stop-Shop Open Access to Photonics Innovation Support for a Digital Europe" [\[link to website\]](#) [\[link to presentation\]](#). Together with PhotonicSweden, RISE is the Swedish node of the project. Currently PhotonHub provide a large number of free "Introductory online courses" organized by different universities and institutes in Europe, including RISE. [\[link to website\]](#)

- **PhotonDelta** is a European network consisting of researchers, chip designers, foundries, and software developers. Their partners are technology leaders in integrated photonics modules, with a specialty in single and hybrid InP and SiN waveguide technologies [[link to website](#)]
- The **Optica Technical Group webinars** provide free online content on optics and photonics from 46 technical groups and feature an hour-long presentation by selected speakers. The [on-demand webinar library](#) contains over 200 past webinars. [[link to Optica webinars](#)]
- **IEEE Photonics Society** also offers a few **webinars** for their members only as one of their Online Learning Resources [[link to IEEE-PS resources](#)].
- Researchers in **The Graphene Flagship** has published an article on graphene-based integrated photonics, including comparison with existing technologies, as well as a roadmap [[link to article](#)]
- The European Commission (EC) “**CORDIS Results Pack on Photonics**” (2020) [[link to report](#)]
- SPIE eBook (infographics) on “**Photonics – Technical Applications of Light**” [[link to free eBook](#)]
- Optica Industry Development Associates (OIDA) **Quantum Photonic Roadmap** [[link to a free copy](#)]
- IEEE 802.3™ **Ethernet Bandwidth Assessment** [[link to report](#)] [[link to tutorial slides](#)]
- The **Integrated Photonic Systems Roadmap-International** (IPSR-I) is the result of about 400 academic and industrial experts from across the globe, working in the field of integrated photonic technologies and their applications. [[link to overview](#)] [[link to 2023/2024 roadmaps](#)]
- **The UNESCO International Year of Light and Light-based Technologies 2015** (IYL 2015) created a [report](#) that aims to give a synthetic account of IYL 2015, describing its origins and goals. The report also contains information on organization and communications, and it is hoped that these details may provide guidance for others who may wish to organize a similar global outreach initiative in the future.
- The journals of **Institution of Engineering Technology** (IET) are now fully Open Access and available on the new [IET Research hub](#) through the Wiley Online Library. The IET journals portfolio includes over 40 journals, covering a wide range of engineering and technology fields (e.g., [Electronics Letters](#) and [IET Optoelectronics](#)). Articles published from 2013 are now freely available.
- **Swedish Electronics Industry's Agenda 2.0** where photonics is mentioned as a spearhead area with 250 companies and around 8 000 employees (2023-12-04) [[link to agenda](#)]
- **NEW** The **Competitiveness Compass** is EU's strategic roadmap designed to strengthen Europe's economic and technological leadership (Jan-2025) [[link to roadmap](#)]

12 IEEE Distinguished Lecturer 2025

- To enhance the technical programs of the Chapters the IEEE Photonics Society **Distinguished Lecturer** (DL) Program provides excellent speakers who have made technical, industrial, or entrepreneurial contributions to the field of photonics [[link to more info](#)].
- This year's (2025) **Distinguished Lecturer** are [Prof. Liangcai Cao](#) (Tsinghua University, China), [Prof. Masayuki Fujita](#) (Osaka University, Japan), [Dr. Daniel M. Kuchta](#) (Nvidia, USA), [Prof. Ho Wai \(Howard\) Lee](#) (Univ. California, Irvine, USA), [Prof. Mohamed-Slim Alouini](#) (King Abdullah University of Science and Technology (KAUST), Saudi Arabia), and [Prof. Jian Wang](#) (Huazhong University of Science and Technology, China).
- Chapters (and members!) may request Distinguished Lecturers to give talks at chapter meetings, or chapter-related events. If a lecturer is available at the time of the event and accepts a talk invitation, the lecturer will travel to address the Chapter members at no cost to the Chapter.
- If you are planning a seminar with a DL as an invited guest speaker you may consider contacting the IEEE-PS Sweden Chapter for sponsoring the cost for refreshments [*see below for more info*]
- It might also be possible to create an event using an on-line tool (e.g., MS Teams, Zoom, etc.).

13 IEEE Photonics Society Graduate Student Scholarship

- The **IEEE Photonics Society** established the [Graduate Student Scholarship Program](#) to provide scholarships to outstanding IEEE Photonics Society Student Members pursuing graduate education within the Society's fields of interest: photonics, electro-optics, lasers, optics, or closely related fields.

- Up to **\$10,000 USD** in scholarships will be awarded and the students will be evaluated based on the nominee's education and research record, grades, references, and accomplishments and potential.
- Applicants are required to be Student Members of IEEE Photonics Society. Deadline: 30 May 2025

14 Administrative News

- Sponsoring workshops/seminars: For 2025 we have allocated a part of our budget for sponsoring workshops/seminars with some minor cost for refreshments (~2,000 SEK). Except for the seminars being in the optics/photonics field the only obligation for the meeting organizer is to give information about the IEEE PS-Sweden (e.g., a presentation with a few slides) and use the IEEE Photonics Society logo. The meeting organizer will also be allowed to announce their meeting to the IEEE-PS Sweden Chapter members through relevant IEEE communication channels (e.g., IEEE Sweden web, IEEE eNotes emails, IEEE vTools Events, IEEE Collabratec, IEEE-PS Sweden Chapter Newsletters). Nominations for the sponsoring grant should be sent by email to arne.alping@ieee.org.
- The **IEEE Center for Leadership Excellence** (CLE) offers a 'one stop' training solution designed to serve the multiple and diverse range of IEEE user communities. [\[more info\]](#)
- **Become an IEEE Senior Member**: Senior member is the highest grade for which IEEE members can apply. IEEE members can self-nominate, or be nominated, for Senior Member grade. To be eligible for application or nomination, candidates must: (1) Be engineers, scientists, educators, technical executives, or originators in IEEE-designated fields; (2) have experience reflecting professional maturity; (3) have been in professional practice for at least ten years (with some credit for certain degrees); (4) show significant performance over a period of at least five of their years in professional practice.
 - [Review complete Senior member requirements](#)
 - [Begin Senior member application process](#)

15 Future Newsletters – Possible contents

To be able to include information of interest to the Chapter members we need input from all of you. Future Newsletters may contain, e.g.,

- Presentation of recently defended PhDs and Licentiates (e.g., photo & short description)
- Presentation of members lab, department, company
- Announcement of upcoming public invited talks, seminars, workshops, etc.
- Photonics news (grants, research breakthroughs, etc.)

16 Chapter Member Statistics 2025

On 30-April-2025 the Chapter had 39 members in total (1 less since the last Newsletter), including 16 Senior Members, 4 Fellows, 6 Graduate Student Members, and 13 regular members. 15% of the members and 45% of the Board members are female. 25% of the members are from industry; the rest are from universities and research institutes.

17 Chapter Board Activities 2025

- The IEEE-PS Sweden Chapter Board had so far one (1) regular board meeting by teleconference
- The Chapter has applied for funding from the IEEE Photonics Society **2025 Annual Chapter Grant** for the Best PhD Thesis Award 2025, the Best Poster Award at OPS-2025 and sponsoring of an OptoPub
- The Chapter has received funding (\$5,000 USD) from the IEEE-PS **Educational Seed Funding Grant 2025** for sponsoring the Women-in-STEM event at ICNS-15
- **Prof. Qin Wang** is the Chair of the event "Women in Nitrides – diversity and inclusion" at ICNS-15
- **Prof. László Veisz** is the Chair of the IEEE Best Poster Awards at ATTO X
- **Prof. Qin Wang** is the Chair of the IEEE Best Poster Awards at OPS-2025
- **Prof. László Veisz** is the Chair of the 2025 IEEE Best PhD Thesis Award Committees

18 Chapter Board Members

Chair	Dr. Arne Alping , MWP Technology Consulting (Gothenburg)
Vice-chair	Prof. Philippe Tassin , Chalmers (Gothenburg)
Secretary	Prof. László Veisz , Umeå University (Umeå)

Treasurer	<i>Vacant position</i>
Webmaster	Dr. Rui Lin , Chalmers (Gothenburg)
Member Development Officer	Dr. Xiaodan Pang , KTH (Stockholm)
Women-in-Photonics (WIP)	Prof. Qin Wang , RISE and adjunct Prof. at KTH (Stockholm) Dr. Shagufta Naureen , Coherent (Stockholm) Dr. Rui Lin , Chalmers (Gothenburg)
Chair – Best PhD Thesis Award Committee	Prof. Philippe Tassin , Chalmers (Gothenburg)
Newsletter Editor	Dr. Arne Alping , MWP Technology Consulting (Gothenburg)