

IEEE Monthly Highlights for the Board of Directors, October 2022

Dear Directors and Directors-Elect:

Below are key highlights of ongoing efforts and initiatives within IEEE during the month of October 2022. I look forward to your feedback. I encourage you to share this report within your organizations.

Stephen Welby
1 November 2022

Business Highlights/Ongoing Collaborations

Membership Statistics (**all figures are end of September 2022 and reflect the same time period YoY for 2021 unless otherwise noted.*)

- **IEEE Total Membership: 390,604 members**
 - Change from September 2021: 4.4% increase
 - Higher Grade Membership (without GS): 276,786 members
 - Change from September 2021: 0.4% decrease
 - Undergraduate Student Membership: 71,640 members
 - Change from September 2021: 25.9% increase
 - Graduate Student Memberships: 42,178 members
 - Change from September 2021: 6.6% increase
- **Total Society Membership: 316,508 (excluding affiliates)**
 - Change from September 2021: 0.7% decrease
 - 13 societies increased by more than 1%
 - 19 societies decreased by more than 1%
 - 7 societies saw increases or decreases of +/- 1%
- **IEEE-Standards Association Membership: 8,042**
 - Change from September 2021: 3.9% decrease
- eMembership – 2022 Membership Year to Date
 - Change from 2022 to 2023 Membership Year: 4.9% decrease

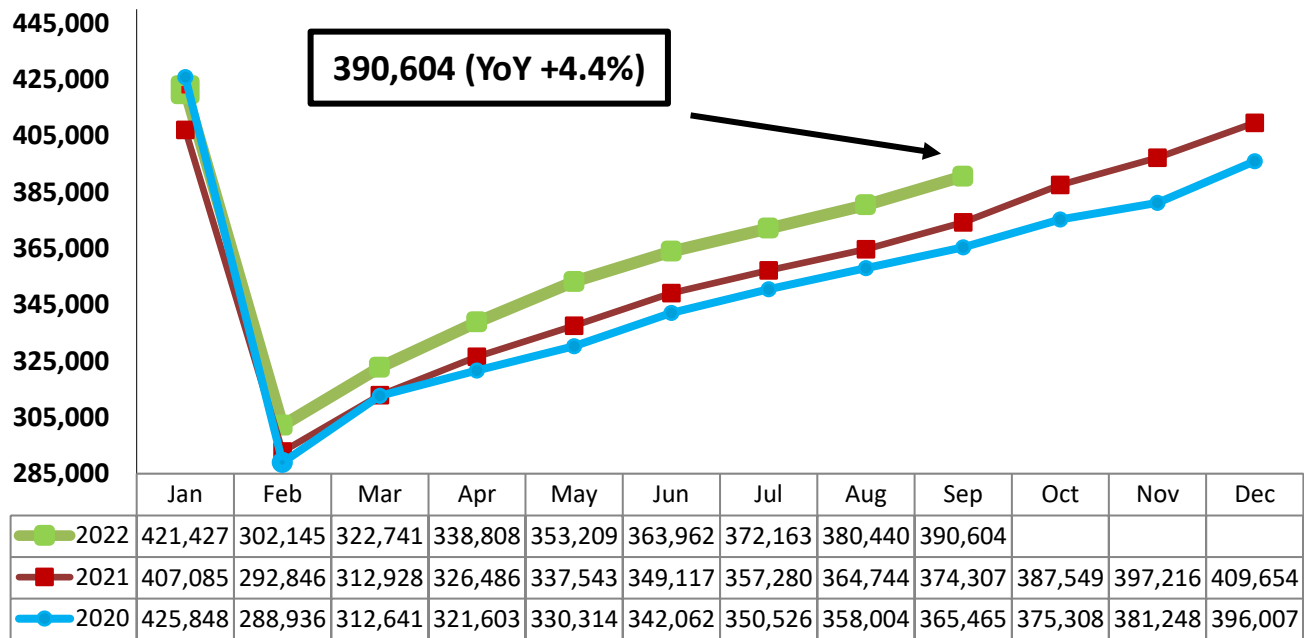
	2022	2023
New Join	649	531
Renewal	823	944
Reinstate	580	476
TOTAL	2,052	1,951

IEEE Membership Trends

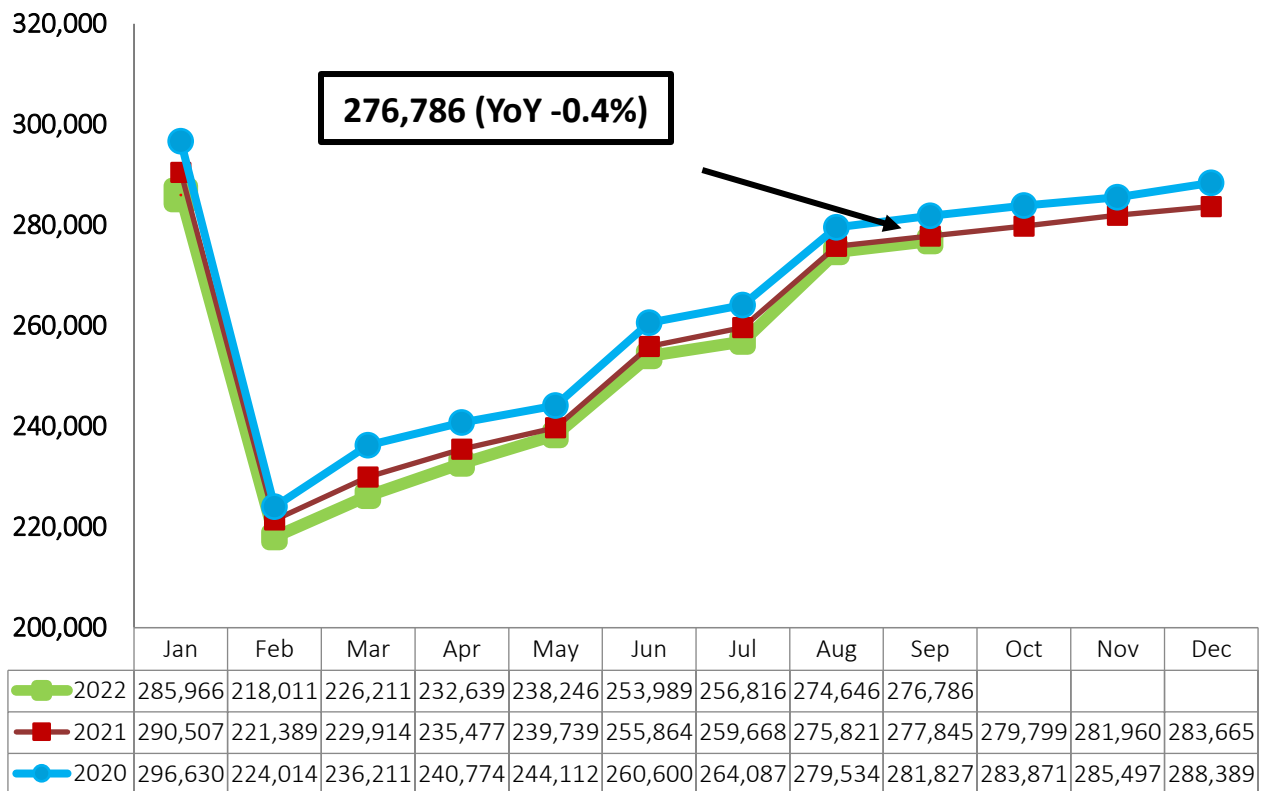
- For the first month into the 2023 membership year, growth is sustained at 4.4%, up slightly from 4.3% in August.
- Recruitment growth continues. Students are up 9.9%. In the US, higher grade membership is up 2.4%.
- The following membership pilot activities are being tested for 2023: Recent Grad stepped dues discounts continue, multi-year membership discount, third and final year of the FUTURE50 student discount, and Society-focused messaging pilots with Computer Society and Power and Energy Society (bundle advertising).

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Total IEEE Membership

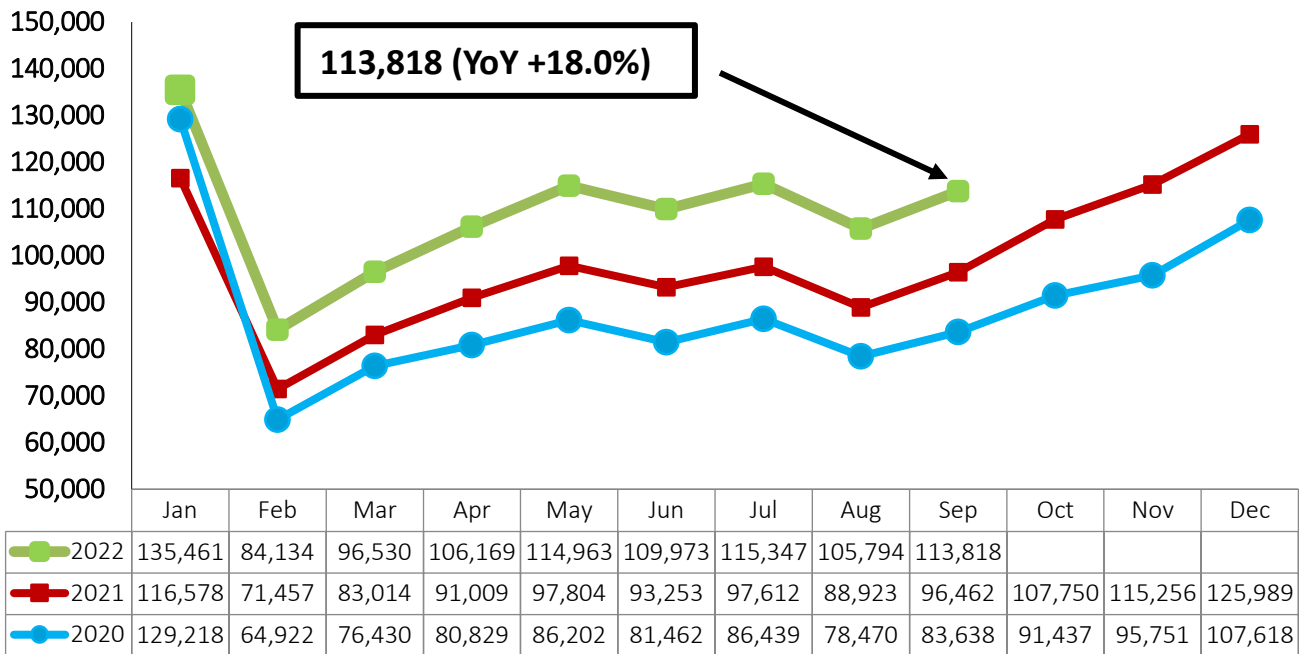


Total IEEE Higher Grade Membership

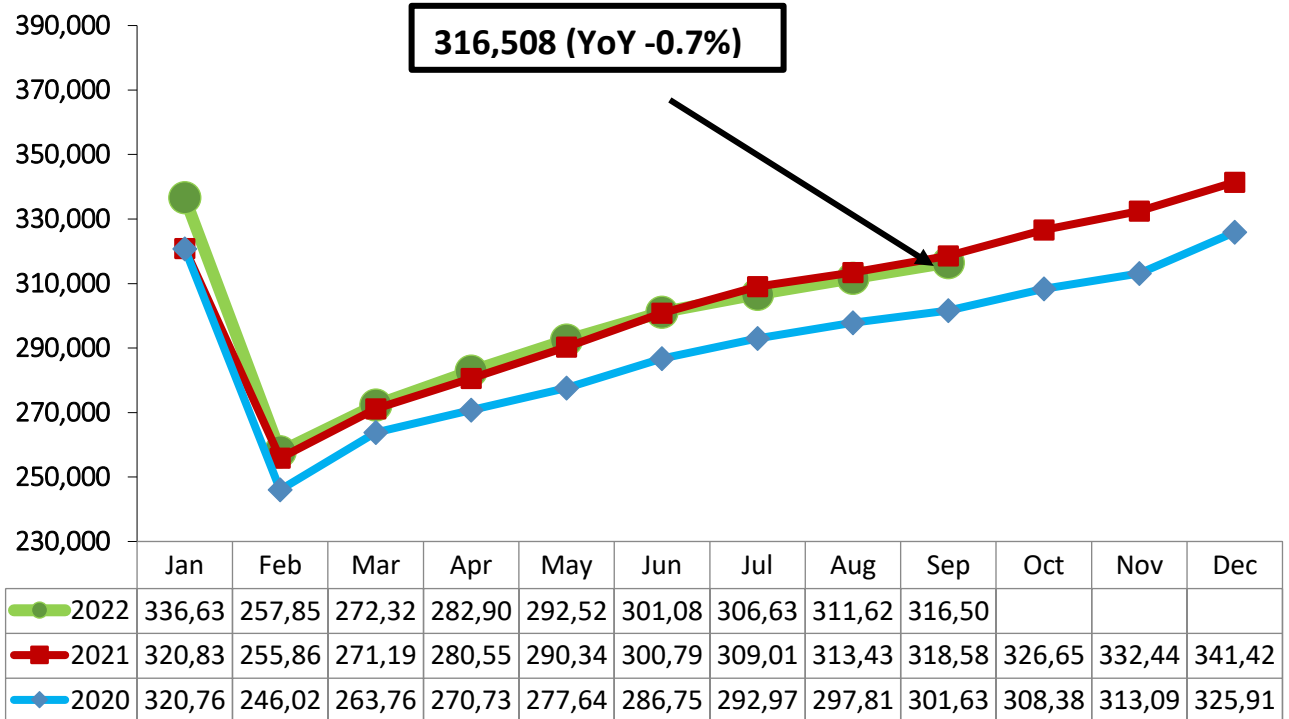


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Total IEEE Student Membership



Total IEEE Society Membership



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- Livewire, a media outlet with 20 million+ unique visitors per month, featured IEEE Fellow Karen Panetta discussing [the role of AI in helping to diagnose and assist people with speech conditions](#); and IEEE Member Todd Richmond [discussing projections for the future of the metaverse](#).
- 2022 IEEE Ad Hoc Committee to Coordinate IEEE's Response to Climate Change has prepared materials to communicate IEEE's focus on preventing/mitigating the impacts of climate change. Key materials include:
 - Wordmark with tagline developed for use on the website and other website collateral.
 - A new website to showcase IEEE work related to addressing the impact of climate change <https://climate-change.ieee.org/> launched 24 October.
 - A collection of IEEE publications with relevance to addressing the impact of climate change have been curated and released as the "IEEE Climate Change Collection" on IEEE *Xplore* and the new Climate Change website.
- IEEE Fellow Ashutosh Dutta and IEEE Senior Member David Witkowski shared their insights on the metaverse and cybersecurity during thought leadership panels at Mobile World Congress in Las Vegas, Nevada, which also resulted in onsite media opportunities.
- The fourth 2022 IEEE Women in Engineering Beijing Leadership Summit (2022 IEEE WIE BLS) was held with the theme of "Diversity, Inclusion, Breaking Boundaries." The hybrid event was broadcast through three social media platforms and reached more than 10,000 viewers.
- IEEE.tv live streamed the plenary sessions and recorded 190 hours of breakout sessions for the hybrid 2022 International Conference on Image Processing, held 16 to 19 October, in Bordeaux France.
- The [IEEE-Eta Kappa Nu Student Leadership Conference](#) was held 28-30 October and featured more than 200 registrations, 13 sponsors, and an additional 25 Societies, companies, and graduate schools attending.
- The EPICS in IEEE [Access and Abilities Competition](#) application deadline was 1 November. The selected projects will be supported by the IEEE Foundation's Jon C. Taenzer Memorial Fund.
- The [IEEE STEM Summit](#) will take place virtually from 6-10 December 2022. There are currently more than 160 registrants.
- [IEEEXtreme 16.0](#), an exciting 24-hour worldwide coding contest, was held on 22 October, beginning at midnight (00:00:00) UTC.
- The IEEE Power Electronics Society's Empower a Billion Lives (EBL) II competition received 218 proposals during the initial online round and is currently reviewing 46 proposals accepted for full proposals or entered during the full proposal round, including 24 student teams. All regions and 43 nations are represented with 25% of the teams from Africa.
- At the IEEE RAPID conference, the IEEE Photonics Society organized a hands-on training for more than 100 STEM teachers and academic attendees on how to conduct mobile K-12 STEM outreach showcases, centered around liquid nitrogen, 3D printing, nanotechnology, and AI concepts.
- Several IEEE Technical Field Awards were presented in October:
 - 2022 IEEE Past President Susan K. (Kathy) Land presented two awards at the 2022 IEEE Energy Conversion Congress and Exposition (ECCE)



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- The 2022 IEEE William E. Newell Power Electronics Award was presented to Fang Zheng Peng “for the development of cascaded multilevel inverters and high-power converter topologies, and for their advancement in grid-scale applications.” The award is supported by the IEEE Power Electronics Society.
- The 2022 IEEE Richard Harold Kaufmann Award was presented virtually to Paresh C. Sen “for contributions to the theory, practice, education, and development of advanced industrial motor drives and power electronics systems.” The award is supported by the IEEE Industry Applications Society.
- The 2022 IEEE Undergraduate Teaching Award was presented virtually to Christopher Rose “for innovations in team-oriented signature design and inspiring women and underrepresented minority students to pursue engineering.” The award is supported by the IEEE Education Society.
- The 2020 IEEE Masaru Ibuka Consumer Electronics Award was presented to Eben Upton “for creating an inexpensive single-board computer and surrounding ecosystem for education and consumer applications.” The award is supported by Sony Group Corporation.
- 2018 IEEE Honorary Member Anton Zeilinger was awarded the [2022 Nobel Prize in Physics](#), along with Alain Aspect and John F. Clauser, for experiments with entangled photons, establishing the violation of Bell inequalities and pioneering quantum information science.
- ARM, the financial supporter of the IEEE/RSE James Clerk Maxwell Medal, agreed to a new three-year commitment, 2024 through 2026.
- Nominations for the 2024 IEEE Technical Fields Awards and the 2023 Eric Herz Outstanding Staff Member Award are open. Nominations must be submitted through the [online portal](#) and are due by 15 January 2023.
- Three IEEE milestones were dedicated in October:
 - On 20 October, Region 8 Director Antonio Luque participated in the dedication of the Budapest Metroline No.1., 1896, recognizing the first underground railway designed specifically to use electric power. (IEEE Hungary Section).
 - On 21 October, 2022 IEEE President-elect Saifur Rahman attended the dedication of the Alvin Deep-Sea Research Submersible, 1965-1984, one of the world’s most important deep-sea scientific instruments. (IEEE Providence Section).
 - On 26 October, President-elect Rahman and I participated in the dedication of the First Computerized Tomography (CT) X-ray Scanner, 1971. President-elect Rahman also spoke about the IEEE Milestone program on 27 October at a symposium on the history of the invention and its subsequent application in clinical practice. (IEEE UK & Ireland Section).
- The Samueli Foundation pledged US\$600,000 in support of the IEEE-HKN Student Leadership Conferences (SLC) in 2022, 2023, and 2024.
- Giving Tuesday is 29 November 2022. For the fourth consecutive year, the IEEE Foundation is organizing a “One IEEE” themed Giving Tuesday campaign. Donor supported program partners are being provided the tools to raise funds from their own constituency groups and offered Incentive Grants to those programs who receive donations from at least 30 unique donors.



View the 2018 IEEE Honorary Membership presentation [here](#).



Director Luque at the unveiling of the Budapest Metro line 1 milestone.

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- Throughout the month of October, the IEEE Foundation promoted planned giving by celebrating members of the [IEEE Goldsmith Legacy League](#), IEEE elite planned giving donor recognition group. Five members of League share why they give and what they support in the blog - [Forever Generous: Your IEEE Legacy](#).
- IEEE History Committee selected the [Geniuses at War: Bletchley Park, Colossus, and the Dawn of the Digital Age by David A. Price](#) as the seventh recipient of the [IEEE William and Joyce Middleton Electrical Engineering History Award](#). The Middleton Award was made possible thanks to a bequest from the Estate of William W. & Joyce F. Middleton.
- Register today for a free webinar, [See the USA the AIEE Way](#), presented by the IEEE Foundation and History Center on 3 November 2022 at 12:00 PM ET, to hear the story of AIEE inviting the Institution of Electrical Engineers (IEE) of Great Britain and members of other European electrical engineering societies to join a circular 10-city tour, visiting important industrial centers.
- Following the devastation of [Hurricane Ian](#), both IEEE-USA MOVE trucks, along with volunteers Walt Burns, David Sewell, Grayson Randall, and Jay Diepenbrock, deployed to assist the American Red Cross in Florida.
- The IEEE Humanitarian Activities Committee (HAC)/Special Interest Group on Humanitarian Technology (SIGHT) received a 2022 Summit Award, the American Society of Association Executives highest honor for the association community.



*Sampathkumar Veeraraghavan,
Chair of IEEE HAC accepts the 2022
Summit Award.*