

IEEE Tokyo Section Report For 2023

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PART A - SECTION SUMMARY

A.1 Executive Summary – (Please follow the format given below)

< Section Officer >

Chair: Kiyoharu AIZAWA
Vice Chair: Yutaka SATA
Secretary: Haruhiko OKUMURA
Treasurer: Kenichi HIGUCHI

< Executive Committee Members >

Chapter Operations Committee Chair: Miyuki SOEYA
Fellow Nominations Committee Chair: Itsuro MORITA
Membership Development Committee: Chair: Shusuke KAYA
Nominations Committee Chair: Moriya NAKAMURA
Technical Program Committee Chair: Ryoko MATSUO
Publications Committee Chair: Kenji HIROHATA
Student Activities Committee Chair: Aiko UEMURA
History Committee Chair: Haruko KAWAHIGASHI
Life Member Affinity Group Tokyo Chair: Naohisa OHTA
Young Professionals Chair: Yutaro ISHIGAKI
Tokyo/Shin-etsu Joint Section WIE Chair: Pauline N. Kawamoto
Section Appointing Executive Committee Member: Digh HISAMOTO
Past Tokyo Section Chair: Yoshiaki NAKANO
Past Tokyo Section Secretary: Masayuki SHIGEMATSU
Past Tokyo Section Treasurer: Fumiaki MAEHARA

- Section Highlights
- General Assembly: The IEEE Tokyo Section's Year 2023 General Assembly was held on March 17th in hybrid.
- Event: Technical Program Committee of the Tokyo Section organized 10 lecture meetings. Annual total more than 700 attendees had joined.
- Management: The Tokyo Section Executive Committee Meetings of 2023 were held 4 times, March 17th with 18 participants, June 16th with 20 participants, September 11th with 18

participants and December 1st with 20 participants. The 3rd and 4th ExCom meetings were held in external company to develop the new interaction for industry area.

- Membership Development: Continuing from last year, Tokyo Section sent pin badges which are presented to members of commemorative years (5, 10, 20, 25, 30, and 40 years) for the sake of increasing the retention rate.

- Major Events (International, National)
 - LMAG Tokyo received Regional LMAG Achievement Award 2023
 - WIE 2023 was held at Aoyama Gakuin University and online on December 2nd, organized by Tokyo/Shin-etsu Joint Section WIE. The total number of participants was 101 including IEEE members.

- Major Chapter Activities
 - Chapter chairs participated in the Japan Council Chapter Operation Committee Meetings(hybrid) held on May 11th and November 13th with all other Chapter chairs belonging to sections in Japan, where they discussed procedures of chapter operations and effective ways of information sharing between chapters and with other IEEE OUs.
 - 7 International Conference MOUs were concluded by some joint chapters.

- Major Student and Affinity Group Activities
 - Seven Student Branches of Tokyo Section participated in the event “Student Branch Leadership Training Workshop” (SBLTW) at Kansai University on 30th June and 1st July, 2023.
 - Tokyo Section held an event “20th TOWERS Workshop”, an annual workshop operated by students based in Tokyo Section and gathering a variety of engineers on October 20th in 2023 at Kanagawa Institute of Technology. (89 attendees)
 - 11 study sessions and workshops were organized and held by Young Professionals Affinity Group of Tokyo Section.
 - Life Member Affinity Group Tokyo co-sponsored 12 online and hybrid lecturers, and organized “Evening Salon extended” on May 25th to provide an opportunity of interaction with other members. What is more, 1 technical tour was organized and held by LMAG Tokyo.
 - In addition to WIE 2023 mentioned above, WIE Tokyo-Shin-etsu held two online coffee break sessions on International Women's Day, March 8th, and International Women Engineers Day, June 23th and 24th, with 8 and 16 participants respectively.
<https://iee-jp.org/section/tokyo/about/wie/activity/event-2023.html> (Japanese only)

- Awards
 - A member of Tokyo Section received IEEE Masaru Ibuka Consumer Technology Award in 2023.

A.2 Financial Report – (Please follow the format given below)

- Summary (as per submitted on NetSuite)

IEEE
IEEE : Tokyo Section : Region 10 JPY
Income Statement
From Jan 2023to Adjust 2023

Financial Row	Amount
Sales	
2.10 - Meeting & Social Events	¥26,000.00
3.10 - Rebate from IEEE HQ	¥5,778,373.00
3.20 - Region Receipts	¥305,695.00
3.30 - Sections or Councils	¥2,622,612.00
3.32 - Receipts from MGA Board, other Major Boards	¥180,000.00
3.34 - IEEE HQ & Societies	¥17,484,083.00
3.40 - IEEE CB Account Interest	¥289,649.00
3.45 - Non-IEEE CB Account Interest	¥50.00
Total - Sales	¥26,686,462.00
Gross Profit	¥26,686,462.00
Overheads	
4.10 - Meetings & Social Events Expense	¥1,266,498.00
4.30 - Advertising IEEE(Expense)	¥551,280.00
4.80 - Student Activities Expense	¥716,867.00
4.90 - Other Program Expenses	¥2,190,637.00
5.10 - Occupancy Expense	¥636,733.00
5.30 - Salaries Expense	¥1,332,420.00
5.50 - Support to Sections/Chapters Expense	¥18,915,408.00
5.60 - Other Management & General Expenses	¥842,446.00
Total - Overheads	¥26,452,289.00
Operating Profit	¥234,173.00
Net Profit/(Loss)	¥234,173.00

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Total number of active members in the past 3 years.

Grade	Number 12/31/2021	Number 12/31/2022	Number 12/31/2023
Life Fellow	217	213	203
Fellow	102	103	99
Life Senior Member	116	121	134
Senior Member	506	501	510
Life Member	388	410	429
Member	5,299	5,249	5303
Associate	145	135	148
Graduate Student Member	577	616	748
Student	179	208	227
Others (HM, PM, LA)	2	2	2
Total	7,531	7,558	7,803

- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members.
 - The Membership Development Committee (MDC) made every effort to enhance membership. The MDC distributed emails to renew membership and promote up-grading to Senior Members.
 - As a step to make IEEE more recognized in many events all over Japan, MD Coordinator had kept collaboration with chapters and sections affinity groups since 2019 to secure time slots for introduction of IEEE activities in the session of events and to install booths of IEEE promotion for distributing PR materials (MD kit) on the sites of the events. The MD kit was distributed in three events and conferences, InterMAG in May, GCCE and

IEEE TOWERS in Tokyo in October.

- 9 members were newly selected as IEEE fellows from Tokyo Section in 2023:
- Fellow Nominations Committee (FNC) distributed emails to promote nominations for Fellow Members. And FNC analyzed what element encourages to apply to Fellow Grade by questionnaire to Fellow members. The results will hand over to next committee officers.

B.2 Chapter Activities

- Total number of Chapters in the Section is 38 shown below.

#	Chapter	#	Chapter
1	Signal Processing (SP-01)	20	Electronics Packaging (EP-21) [previous name: Components, Packaging & Manufacturing Technology (CPMT-21)]
2	Broadcast Technology (BT-02)	21	Oceanic Engineering (OE-22)
3	Antennas & Propagation (AP-03)	22	Control Systems (CS-23)
4	Circuits & Systems (CAS-04)	23	Robotics and Automation (RA-24)
5	Nuclear & Plasma Sciences (NPS-05)	24	Education (E-25)
6	Vehicular Technology (VT-06)	25	Professional Communication (PC-26)
7	Reliability (R-07)	26	Electromagnetic Compatibility (EMC-27)
8	Consumer Electronics (CE-08)	27	Systems, Man & Cybernetics (SMC-28)
9	Instrumentation & Measurement (IM-09)	28	Geoscience & Remote Sensing (GRS-29)
10	Aerospace and Electronic Systems (AES-10)	29	Society on Social Implications of Technology (SIT-30)
11	Computational Intelligence (CIS-11)	30	Power & Energy (PE-31)
12	Information Theory (IT-12)	31	Dielectrics & Electrical Insulation (DEI-32)
13	Technology and Engineering Management (TM-14)	32	Magnetics (MAG-33)
14	Electron Devices (ED-15)	33	Industry Applications (IA-34)
15	Computer (C-16)	34	Power Electronics (PEL-35)
16	Microwave Theory & Techniques (MTT-17)	35	Photonics (Formerly LEOS) (PHOT-36)
17	Engineering in Medicine & Biology (EMB-18)	36	Solid-State Circuits (SSC-37)
18	Communications (COM-19)	37	Intelligent Transportation (ITS-38)
19	Ultrasonics, Ferroelectrics & Frequency Control (UFFC-20)	38	Electronic Design Automation (CEDA-44)

- Number of Chapters formed in the current year is zero.
- Number of active Chapters (Chapters who have reported required number of meetings during the year) is 38, i.e. all the Chapters are active.
- Summary of Chapter activities (Chapter wise with attachment table/information)
 - Total number of events such as technical meetings held by Chapters in Japan is over 360
 - Chapter chairs participated in the Japan Council Chapter Operation Committee Meetings (hybrid) held on May 11th and November 13th with all other Chapter chairs belonging to Sections in Japan, where they discussed procedures of chapter operations and effective ways of information sharing between chapters and with other IEEE OUs.
 - With the introduction of IEEE's TCS Fee in 2019, Chapter Operation Committee (COC) responded to the conclusion of MOU and sponsorship, especially for joint chapters. Tokyo Section approved 7 MOUs in total for TCS/FCS in 2023.

B.3 Professional and Continuing Education Activities

• In total, 10 lecture meetings and 1 Technical Tour with lecture were held during the year of 2023. <https://ieee-jp.org/section/tokyo/event/kouen/kouen2023.html> (Japanese only)

• A lecture meeting “Development and Future Prospects of Ultra-High Density 3D Flash Memory” by Dr. Suguru Kito of Kioxia Corporation, sponsored by IEEE Tokyo Section TPC and co-sponsored by LMAG-Tokyo was held in hybrid on March 17th, 2023, with 46 attendees.

• The IEEE AESS Distinguished Lecturer hosted by JC-IPC and co-sponsored by Tokyo branch LMAG, TPC, and AOC (Association of Old Crows Society of Electronic Warfare Japan Branch) was held on April 19, 2023 (Wednesday) at Kikai Shinko Kaikan. Ta. 33 face-to-face and 61 online participants participated. The speaker was Dr. Karen Haigh, and the title of the lecture was "Cognitive RF Systems: Using AI to Solve Complex Problems."

• “Evening Salon extended” was held on 25th May 2023 in a hybrid format (on-site and webinar) with 57 attendees, including a lecture meeting “An Introduction to How to Enjoy “Wine”~From the Aspects of History, Science, and Culture~” by Professor Emeritus Iwao Sasase, Keio University (Japan Sommelier Association Certified Wine Expert).

• A lecture meeting “Formal Engineering Methods: Bridging Formal Methods and Software Engineering” by Dr. Shaoying Liu (Professor at Hiroshima University Graduate School) sponsored by IEEE Tokyo Section TPC and co-sponsored by LMAG-Tokyo was held in a hybrid format (on-site and webinar) on June 26th, 2023, with 46 attendees.

• A lecture meeting “Cybersecurity Trends and Cutting-Edge Measure - NICT's Efforts to Strengthen Cybersecurity in Japan” by Dr. Shiho Moriai, Senior Executive Director, Director General, Cybersecurity Research Institute, National Institute of Information and Communications Technology (NICT) sponsored by LMAG-Tokyo and co-sponsored by IEEE Tokyo Section TPC was held on Zoom Webinar on June 26th, 2023 with 137 attendees.

• A lecture meeting “Making Robots Smarter by Learning Humans: Understanding, Reproducing and Synthesizing Anthropomorphic Motions” by Dr. Eiichi Yoshida (Professor, Department of Functional Design Engineering, Faculty of Advanced Engineering, Tokyo University of Science) sponsored by IEEE Tokyo Section TPC and co-sponsored by LMAG-Tokyo was held in a hybrid format (on-site and webinar), on August 29th, 2023, with 77 attendees.

• The First Tokyo Section SIGHT Workshop “The IEEE Humanitarian Activities Workshop in Japan 2023” was held on Saturday, August 5, 2023 in a hybrid format (on-site and webinar) with 72 participants

• A Technical Tour to JAMSTEC (Japan Agency for Marine-Earth Science and Technology) in Yokosuka, Kanagawa, sponsored by LMAG-Tokyo and co-sponsored by IEEE Tokyo Section TPC was held on October 4th, 2023 with 23 attendees.

• A lecture meeting “Cooperative Control of Large Scale Network Systems: Towards Solving Societal Issues through Collaboration of Information, Communication, and Control” by Dr. Hideaki Ishii (Professor, Department of Computer Science, School of Computing, Tokyo Institute of Technology) sponsored by IEEE Tokyo Section TPC and co-sponsored by LMAG-Tokyo was held in a hybrid format (on-site and webinar), on October 4th, 2023 with 80 attendees.

• A lecture meeting “High-Capacity Optical Fiber Communication Technologies Supporting Diverse Communication Services” by Dr. Itsuro Morita (Professor, Department of Computer Science and Communication Engineering, School of Fundamental Science and Engineering, Faculty of Science and Engineering, Waseda University) sponsored by IEEE Tokyo Section TPC and co-sponsored by LMAG-Tokyo in a hybrid format (on-site and webinar), on November 21, 2023, with 81 attendees.

• A lecture meeting “Humanoid Robotics and Its Applications” by Dr. Akihiko Kandori sponsored by IEEE Tokyo Section TPC and co-sponsored by LMAG-Tokyo was held in a hybrid format (on-site and webinar), on December 22th, 2023 with 75 attendees.

B.4 Students Activities

- Total number of Student Branches in the Section is 14. The Student Branches are as follows:
University of Tokyo (1976), Tokyo Institute of Technology (1994), Keio University (1994), Yokohama National University (1995), Tokyo City University (2004), Tokyo Denki University (2005), Meiji University (2007), Tokyo University of Science (2009), Waseda University (2010), Chuo University (2012), Tokyo University of Agriculture and Technology (2012), University of Electro-Communications (2015), Aoyama Gakuin University (2017), Chiba University of Commerce (2023) .
- Number of Student Branches formed in the current year is one.
- Section level student activities (student congress, paper and other contests, awards etc) is below.
 - Seven Student Branches (SB) from Tokyo Section participated in SBLTW in Kansai University organized by Japan Council SAC on 30th June and 1st July.
 - Tokyo Section held an event “20th TOWERS Workshop”, an annual workshop operated by students based in Tokyo Section and gathering a variety of engineers on October 20th in 2023 at Kanagawa Institute of Technology. (89 attendees)
- Number of active Student Branches is 5 (Student Branches who have reported required number of meetings during the year)
- Summary of Student Branch activities (Student Branch wise with attachment table/information)
- The Student Branches of Tokyo Section actively organized and held events in 2023. i.e. 24 study sessions and workshops, four membership development activities in their University events, and Research Presentation Encouragement Workshop.

B.5 Affinity Group Activities

- Young Professional (YP)
Tokyo Section YP continued to have varied activities with much enthusiasm.
 - YP Tokyo annual Kick-off Meeting was held on April 30th, 2023 online with 7 attendees for discussion of action plan.
 - As mentioned in “Major event in Affinity Group”, 11 study sessions and workshops were organized and held by Young Professionals Affinity Group of Tokyo. Themes and topics of the sessions and webinars varied from professional to career seeking for young engineers, such as Robotics, Coding and personal episodes in IEEE.
 - IEEE Tokyo YP Students’ Transition and Elevation Partnership (IEEE STEP 2023) at CyberAgent was organized and held by YP Tokyo on December 19th with 25 attendees. <https://iee-jp.org/section/tokyo/about/yp/activity/the-13th-ieee-tokyo-yp-step-event.html> (Japanese only)
 - YP Tokyo co-sponsored WIE 2023 organized by WIE Tokyo Shin-etsu Joint Section on December 2nd and supported IEEE TOWERS 2023 in Tokyo on October 20th.
- Women In Engineering (WIE)
 - WIE Tokyo Shin-etsu Joint Section Board meetings were held on January 25th (online), February 20th (online), April 22th (online), May 23th (online), July 19 22th (online), August 28th (online), November 14th(online), and December 11th (online).
 - WIE 2023 was held at Aoyama Gakuin University and online on December 2nd, organized by Tokyo/Shin-etsu Joint Section WIE. The total number of participants was 101 including IEEE members.

- Two online coffee break sessions on International Women's Day, March 8th, and International Women Engineers Day, June 23th and 24th, with 8 and 16 participants respectively.
- Life Member (LM)

Tokyo Section LMAG continues to work very actively. In 2023, it had many lecture meetings and events to attractive sites, including previously mentioned lectures and Technical Tours.

<https://ieee-jp.org/section/tokyo/en/about/lmag.html>

 - LMAG Tokyo's General Assembly was held on March 17th in hybrid with 30 attendees.
 - 9 Board meetings were held on January 4th (online), February 7th (online), March 17th (onsite), April 19th (onsite), May 25th (onsite), August 5th (onsite), August 29th (onsite), December 8 (onsite).
 - The Chair and Vice Chair of LMAG Tokyo participated in R10 LMAG Meets (online) four times.
 - A lecture meeting "Development and Future Prospects of Ultra-High Density 3D Flash Memory" by Dr. Suguru Kito of Kioxia Corporation, sponsored by IEEE Tokyo Section TPC and co-sponsored by LMAG-Tokyo was held in hybrid on March 17th, 2023, with 46 attendees.
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- LMAG-Tokyo won the Regional Life Members Affinity Group Achievement Award 2023.

- Three News letters were issued in April, September and December.

https://www.ieee-jp.org/section/tokyo/lmag/newsletter/2023/37_e.pdf

https://www.ieee-jp.org/section/tokyo/lmag/newsletter/2023/38_e.pdf

https://www.ieee-jp.org/section/tokyo/lmag/newsletter/2023/39_e.pdf

B.6 Awards & Recognition Activities

- No Award constituted by the Section in 2023.
- Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year is as follows.
[IEEE Technical Field Awards] IEEE Masaru Ibuka Consumer Technology Award
“For leadership in creating open and free operating systems for embedded computers used in consumer electronics.”
Ken SAKAMURA (Toyo University)

B.7 Communication Activities (Newsletter, Home Page, E-mail etc.)

- The Publications Committee issued a newsletter named “Tokyo Bulletin” Five times during the year of 2023.
<https://iee-jp.org/section/tokyo/en/report/bulletin.html>
- Home Page of the Section (give the URL and how often it is updated)
Tokyo Section home page has been updated with much effort a couple of times each month.
<https://iee-jp.org/section/tokyo/en/>
- Other means of contacts with Section members including social media
Besides the bulletin, the information on professional and technical meetings was timely distributed to members by IEEE eNotice (e-mail).

B.8 Industry Relations

- Membership growth and retention
- Tokyo Section has collaboration with Japan Council Industry Promotion Committee (IPC) to share the current situation of companies regarding IEEE activities and to discuss the way of expanding opportunities for companies to recognize and be engaged in IEEE.
- Activities for/with industrial members

- Several Industry members from the Tokyo Section participated in "IEEE Metro Area Workshop (MAW) in Nagano 2023", for a purpose to activate the industry relation, organized by IEEE Shin-etsu Section.

B.9 Humanitarian Technology Activities

- The First Tokyo Section SIGHT Workshop "The IEEE Humanitarian Activities Workshop in Japan 2023" was held on Saturday, August 5, 2023 in a hybrid format (on-site and webinar) with 72 participants.
- Tokyo SIGHT also co-organized "Career Navigator" with JC EA in Mutsu dai 2 Tanabu primary school. A member of Tokyo SIGHT participated in it as one of the navigators to talk about their specialized field and experience to give some opportunities to think about the future career for primary school students.
- Tokyo SIGHT Chair Dr.Nishimiya participated HTC2023 at Marwadi University (Rajkot, India) on October 15-18.
- SIGHT Activities are same above.

B.10 Community Activities

- Tokyo Section had a celebration for newly selected IEEE Fellows on March 17th, 2023.

PART C - OTHERS

C.1 Special Events

- The "TRON Real-time Operating System Family" was certified as IEEE milestones. The dedication ceremony for IEEE milestones were held on October 14, 2023, at Tokyo University.

C.2 Relationship with National and International Societies and Non-Government Organizations (NGO)

- Nature of relationship and details of any formal agreement signed

IEEE Tokyo Section had original MOU between IEICE (The Institute of Electronics, Information and Communication Engineers)

- Details of joint activities
Supporting each other's sponsored events automatically.
- Benefit to IEEE members (for example discounts, access to technical information etc.)
Members of IEEE Tokyo Section also can reach IEICE information of their events.
- Benefit to Section (for example help in membership development, venue facilities, cost saving etc.)

Supporting the publicity to deliver emails to the IEICE members at each event.

C3. Collaboration with other IEEE Sections

- Tokyo section had collaborative activities with other sections in Japan such as MAW2023 and Japan SYWL held in Nagano on November 24th and 25th.
- For the management sake, chairs and other delegates participated in joint meetings organized by Japan Council, which includes SAC, MDC, and HC to share information and discuss common subjects with other sections.

C.4 Support extended to Sub-sections & Society Chapters within the Section

- Tokyo Section approved seven MOUs in total for TCS/FCS in 2023.

C.5 Best Practices of your Section (which you would like to share with other Sections for the benefits of members)

- Tokyo Section continued utilizing an office tool “Garoon” which is installed in 2019 for the sake of information sharing, communication promotion, expediting discussion and decision, optimization of office work effort, and so on among the members of the executive committee.
- For online communication, Tokyo Section keeps “Zoom” and “WebEX” license in collaboration with Japan Council.
- To enable to work efficiently from home for COVID prevention and during the business trip, file sharing system continuously used at the Tokyo Section office in collaboration with Japan Council.

C.6 Problems anticipated and suggestions for solutions, if any

Reporting, communication and decision-making is still to be improved for smooth activities, perhaps by system automation, procedure optimization, modifying role assignment, and so on.

- Due to COVID-19, the conventional method to hold events needed to change. In 2023 online or onsite-online hybrid types of events became common and there were more participants in many cases. However, some problems are still to be solves such as deep interaction, sub-group discussion, direct experience on demonstration, and onsite tours.

PART D - GOALS AND PLANS

D.1 Continuation of project/activity in progress and their implementation plans

- To encourage and support YP, LMAG and WIE joint activity to build a cross generation network.
- To promote support of Japan Council’s operation and develop closer ties with other sections in Japan.
- To support Student Brunch activities in corporation with R10 and support further establishment of new Student Branches in Tokyo Section.

D.2 Goals and Future Plans

- Membership recruitment and retention

- To increase the relationship with IEEE and industry members, and to provide benefit for industry members as well as academic members
- To increase management efficiency and effectiveness
- To ensure the sustainable growth and financial stability considering currency exchange rate and membership
- To enhance collaboration:
 - Regional communities and other non-IEEE societies
 - Other IEEE Sections (joint activities with neighboring sections)
- Comprehensively analyze the opinion of members and various information and make use of it in section activities.

D.3 Any innovative ideas to make IEEE more creative and value added for sustaining the membership retention and recruitment goals.

- It is known that increasing fellow and senior grade members is effective for membership retention. For that purpose, it would be necessary that their qualifications be even more respected and attractive. IEEE may need to add valuable privileges to those members in extensive scenes of IEEE activities, e. g. IEEE invites more fellows/seniors to major IEEE conferences/events, or IEEE takes measures to make their presence higher to public, local/global communities, government and so on.
- For the retention and recruitment of industries, it may be effective to make more benefits to those organizations with a certain number of members, e. g. price discount for those in IEEE events.
- Point accumulation system for voluntary work or participation in IEEE activities may be useful for membership retention.
- It would be effective to make tighter relationship with industries to make rankings of the organizations open to public every year according to their contributions to IEEE, e. g. number of members, number of participants to IEEE events, special support to activities, and so on, in addition to presenting awards to them.

D.4 Business Plan for Sustainable Growth and Financial Stability.

- Selling tools and data for research use may be another source of income. They may be made by IEEE or provided by IEEE members. For example, AI model of proposed technologies and bigdata for public use are really valuable for many researchers as benchmark resources.
- Returning more portion of membership fee to local organizations (councils/sections) is very effective to enhance their activities. Particularly office management only by volunteers or few employees is very tough work for councils or sections with a large number of members.