IEEE Tokyo Section ReportFor 2024

Kiyoharu AIZAWA, Chair

The University of Tokyo Email: aizawa@hal.t.u-tokyo.ac.jp

PART A - SECTION SUMMARY

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

• Section Executive Committee Member List

< Section Officer>

Chair: Kiyoharu AIZAWA Vice Chair: Yutaka SATA

Secretary: Haruhiko OKUMURA Treasurer: Kenichi HIGUCHI

< Executive Committee Members >

Chapter Operations Committee Chair:
Fellow Nominations Committee Chair:
Membership Development Committee: Chair:
Nominations Committee Chair:
Technical Program Committee Chair:
Publications Committee Chair:
Shusuke KAYA
Moriya NAKAMURA
Ryoko MATSUO
Renji HIROHATA
Student Activities Committee Chair:
Aiko UEMURA

History Committee Chair: Haruko KAWAHIGASHI

Life Member Affinity Group Tokyo Chair:
Young Professionals Chair:
Tokyo/Shin-etsu Joint Section WIE Chair:
Pauline N. Kawamoto
Section Appointing Executive Committee Member:
Past Tokyo Section Chair:
Past Tokyo Section Secretary:
Past Tokyo Section Treasurer:

Naohisa OHTA
Yutaro ISHIGAKI
Pauline N. Kawamoto
Digh HISAMOTO
Yoshiaki NAKANO
Masayuki SHIGEMATSU
Fumiaki MAEHARA

• Section Highlights

- · General Assembly: The IEEE Tokyo Section's Year 2024 General Assembly was held on March 14th
- Event: Technical Program Committee of the Tokyo Section organized 11 lecture meetings. Annual total more than 900 attendees had joined.
- Tokyo Section hosted 2024 IEEE Industry Engagement Workshop in Tokyo on August 31th.
- Management: The Tokyo Section Executive Committee Meetings of 2024 were held 4 times, March 14h with 22participants, June 14th with 22 participants, September 13th with 23 participants and December 10th with 31 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 budges 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)
 - WIE 2024 was held at Tokai University and online on December 21st, organized by Tokyo/Shin-etsu Joint Section WIE.

• Major Chapter Activities

- Chapter chairs participated in the Japan Council Chapter Operation Committee Meetings(hybrid) held on May 22nd 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.
- 5 International Conference MOUs were concluded by some joint chapters.
- Major Student and Affinity Group Activities
 - Six Student Branches of Tokyo Section participated in the event "Student Branch Leadership Training Workshop" (SBLTW) at Kansai University on August.31th.
 - Tokyo Section held an event "21th TOWERS Workshop", an annual workshop operated by students based in Tokyo Section and gathering a variety of engineers on November 23rd in 2024 at Kanagawa Institute of Technology. (88 attendees)
 - 12 study sessions and workshops were organized and held by Young Professionals Affinity Group of Tokyo Section.
 - · Life Member Affinity Group Tokyo co-sponsored 11 online and hybrid lecturers, and organized 1 technical tour to NTT Musashino R&D Center.
 - In addition to WIE 2024 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.

https://ieee-jp.org/section/tokyo/about/wie/activity/event-2024.html (Japanese only)

Awards

· A member of Tokyo Section received Medal "IEEE Nick Holonyak, Jr. Medal for Semiconductor Optoelectronic Technologies" in 2024.

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

R00913 - Tokyo Section Income Statement from 2024-01-01 to 2024-12-31

Category	Category	Categ	Category level 3	Amoui	nt
Income			2.10.000 000 Meetings & Social Events	¥	259,072
			2.60.020 020 Other	¥	
			3.10.000 000 Rebate from IEEE	¥	6,003,975
			3.20.000 000 Region Receipts	¥	92,716
			3.30.000 000 Rec. Sections or Councils	¥	2,832,550
			3.32.030 030 Member & Geographic Activities	¥	180,000
			3.34.000 000 IEEE HQ & Societies	¥	19,617,533
			3.40.000 000 IEEE CB Account Interest	¥	299,751
			3.45.000 000 Non-IEEE CB Account Interest	¥	828
			3.70.000 000 Other	¥	
			3.95.000 000 Bank Account Transfers (incoming)	¥	118,493
			000 Bank Account Transfers (incoming)	¥	
			000 IEEE HQ & Societies	¥	
			000 Rec. Sections or Councils	¥	
			020 Other	¥	
			슴計	¥	29,404,918
	合計		¥	29,404,918	
Expense			4.10.000 000 Meetings	¥	584,67
			4.10.1 Section Meeting	¥	1,161,05
			4.30.000 000 Advertising Expense - IEEE	¥	536,585
			4.80.000 000 Student Activities	¥	186,17
			4.80.2 Student Branch Support	¥	529,65
			4.90.000 000 Other Program Expenses	¥	2,806,350
			5.40.0 Taxes Expense	¥	-3,41
			5.50.000 000 Support to Sections/Chapters	¥	20,200,768
			5.60.000 000 Other Management & General Expe	¥	3,929,043
			5.65.0 Bank Service Charge	¥	38,54
			6.20.000 000 Other	¥	
			6.95.000 000 Bank Account Transfers (outgoing)	¥	118,493
			슴計	¥	30,087,921
	合計			¥	30,087,921
Net Income				¥	-683,003

JPY

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

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

Grade	Number 12/31/2022	Number 12/31/2023	Number 12/31/2024
Life Fellow	213	203	203
Fellow	103	99	90
Life Senior Member	121	134	141
Senior Member	501	510	529
Life Member	410	429	466
Member	5,249	5303	5,235
Associate	135	148	150

Graduate Student Member	616	748	914
Student	208	227	261
Others (HM, PM, LA)	2	2	2
Total	7,558	7,803	7,994

- 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 one event and conference, GCCE in Kokura, and IEEE TOWERS in Tokyo in November.
 - 6 members were newly selected as IEEE fellows from Tokyo Section in 2024:
 - Continued to release recordings of the "Senior Member Application Support Webinar" held jointly with the JC to increase the number of Senior Members, which is the basis for increasing the number of Fellows. Efforts to increase the number of Senior Members in general, including support for Senior Member applications, will continue.
 - 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

#	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)		Solid-State Circuits (SSC-37)
18	Communications (COM-19)		Intelligent Transportation (ITS-38)
19	Ultrasonics, Ferroelectrics & Frequency Control (UFFC -20)		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 280
 - · 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.
 - The Tokyo Section COC has taken over from the JC COC the tasks related to the Tokyo Section Chapter Support Expenses and has conducted the audit of the activity support expenses. A total of 12 Board meetings have been held and a total of 53 cases have been discussed, of which 40 have been approved.

B.3 Professional and Continuing Education Activities

• In total, 11 lecture meetings and 1 Technical Tour with lecture were held during the year of 2024. https://ieee-jp.org/section/tokyo/event/kouen/kouen2024.html (Japanese only)

- March 14th : Lecture Meeting "IEEE Tokyo Section 2024 Annual Meeting Lecture" The Science of Automation: A Technology Forerunner's Progress"
- 2. May 14th: Lecture Meeting "Energy harvesting toward battery-less wearable devices"
- 3. June 11th: Tour and lecture on the history of telecommunications and IOWN at NTT Musashino R&D Center
- 4. June 22nd: Tour of the Sagamiko Berry Garden and Lecture and Discussion Session
- 5. August 2nd: Lecture Meeting "Cost-effective and secure cryptography"
 6. Autust 21st: Lecture Meeting" Big Data Assimilation Revolutionizing Numerical Weather Prediction Using Fugaku"
- 7. August 31st: 2024 IEEE Industry Engagement Workshop in Tokyo
- 8. September 24th: Lecture Meeting "Robot Audition: Construction of robot ear functions and new developments in the multifaceted fields of robot audition"
- November 8th: Lecture Meeting "Robot Audition: Construction of robot ear functions and new developments in the multifaceted fields of robot audition"
- 10. November 14th: IEEE Milestone Award Recognition Commemorative Lecture "Development and Dissemination of Pulse Oximeter"
- 11. December 26th: Lecture Meeting "Trends in SF6 gas regulations aimed at achieving a carbon neutral society, and the development of SF6-free switchgear in its early stages, as well as its latest development trends."

B.4 Students Activities

Total number of Student Branches in the Section

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) Chiba University(2024)

- Number of Student Branches formed in the current year: 1 (Chiba University
- Section level student activities (student congress, paper and other contests, awards etc)
 - introductory workshop on career building (organised by Tokyo University of Science SB, Tokyo YP, co-organised by Meiji University SB and Tokyo University of Agriculture and Technology SB)

Date/venue: 1 June 2024

Attendance: 21 (14 members and 7 non-members)

Learn about the wonders of electricity! Learn about static electricity and discharged plasma! (Coorganised by Tokyo Denki University SB)

Date/Venue: 29 June 2024

Attendance: 42 (primary schools students, non-members of IEEE)

3. Making a shuttle wind turbine - Making a wind turbine with a reversing mechanism - (co-organised by SB, Tokyo Denki University)

Date/Venue: 21 July 2024 (Sunday) Arakawa Campus, Tokyo Metropolitan College of Industrial Technology

Attendance: 9 (junior high and high school students, non-members of IEEE)

4. Introductory Workshop on Career Development (co-organised by IEEE Tokyo Univ. of Science SB) Lecturers: Antonio, Ogiso, Ke, Ajido, Uehara, Ishigaki (all from IEEE Tokyo YP)

Date/Venue: 1 June 2024 Online

Attendance: 21 (14 members and 7 non-members)

5. IEEE Tokyo YP Summer Science School 2024 (Organised by)

Date/Venue: 27 July 2024 Arakawa Campus, Tokyo Metropolitan College of Industrial Technology Number of attendees: 36 (13 members and 23 non-members)

6. IEEE R10 YP CLAP 2024 (co-organised and hosted by IEEE R10 YP)

Date/Venue: 29 August 2024 National Olympics Memorial Youth Center

Number of attendees: 103 (100 members and 3 non-members)

7. The 14th IEEE Tokyo YP STEP Event (Organiser)

Date/Venue: 18 September 2024, Innovation Palette, Toshiba Research and Development Centre, Toshiba Corporation

Number of attendees: 35 (13 members and 22 non-members)

8. The 15th IEEE Career Development Workshop (Organised by Tokyo Section S/Y/W/L, as a pilot project of the IEEE Life Member Committee Group Mentoring Initiative)

Date/Venue: 16 November 2024, 6D-4 Conference Room, 6F, Kikai-shinko-kaikan bldg.

Attendance: 23 (15 members and 8 non-members)

9. the 21st IEEE TOWERS Date/Venue: 23 November 2024 Kanagawa Institute of Technology

10. the WIE symposium (co-organised)

Date/ Venue: 21 December 2024 Tokai University, Shinagawa Campus (Hybrid)

- 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 2024. i.e. 8 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 February 4th, 2024 (hybrid) with 9 attendees for discussion of action plan.
- As mentioned in "Major event in Affinity Group", 11 study sessions and workshops such as "YP Salon", "YP Study Lab", "YP Summer Science School" 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 young engineers, such as Robotics, Coding and personal episodes in IEEE.
- IEEE Tokyo YP Students' Transition and Elevation Partnership (IEEE STEP 2024) at Innovation Palette, Toshiba Research and Development Center was organized and held by YP Tokyo on September 18th with 35 attendees.

https://ieee-jp.org/section/tokyo/about/yp/activity/the-14th-ieee-tokyo-yp-step-event.html (Japanese only)

- YP Tokyo co-sponsored WIE 2024 organized by WIE Tokyo Shin-etsu Joint Section on December 21st and supported IEEE TOWERS 2024 in Tokyo on November 23rd.
- Women In Engineering (WIE)

- WIE Tokyo Shin-etsu Joint Section Board meetings were held on February 15th (online), February 26th (online), May7th (online), June 29th (hybrid @ Shinshu University), August 25th (online), October 31th (online), and December (online).
- \cdot WIE 2024 Symposium was held at Tokai University, Shinagawa Campus in hybrid December $21^{\rm st}$.
- Tree online coffee break session in 2024 on International Women's Day, March 8th, International Women Engineers Day, June 23th, and IEE Day on October 1st with 10, 6 and 10 participants respectively.

• Life Member (LM)

Tokyo Section LMAG continues to work very actively. In 2024, 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 14th with 44 attendees.
- 12 Board meetings were held online and onsite in 2024.
- The Chair and Vice Chair of LMAG Tokyo participated in R10 LMAG Meets (online) and R10 Life Member Committee Meeting.
 - 11 lecture meeting lectures were held co-sponsored by Tokyo Section TPC.
- · A Technical Tour to NTT Musashino R&D Center (on the history of telecommunications and IOWN at NTT Musashino R&D Center) in Musashinoshi, Tokyo.
- Three News letters were issued in April, September and December.

https://ieee-jp.org/section/tokyo/lmag/newsletter/2024/40 e.pdf https://ieee-jp.org/section/tokyo/lmag/newsletter/2024/41 e.pdf https://ieee-jp.org/section/tokyo/lmag/newsletter/2024/42_e.pdf

B.6 Awards & Recognition Activities

- Award constituted by the Section
 No Award constituted by the Section in 2024.
- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year
 - Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year is as follows.
 - · [Medals] IEEE Nick Holonyak, Jr. Medal for Semiconductor Optoelectronic Technologies
 - "For pioneering contributions to vertical-cavity surface-emitting laser (VCSEL) and VCSEL-based photonics for optical communications and sensing."

 Fumio Koyama (Tokyo Institute of Technology)

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

- The Publications Committee issued a newsletter named "Tokyo Bulletin" 10 times during the year of 2024. https://ieee-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://ieee-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.
 - Several Industry members from the Tokyo Section participated in "2024 IEEE Industry Engagement Workshop in Tokyo (IEW) in Tokyo 2024", for a purpose to activate the industry relation, organized by IEEE Tokyo Section.

B.9 Humanitarian Technology Activities

- Humanitarian Technology related activities supported by the Section including collaboration with other OUs.
- IEEE Humanitarian Activities Workshop with AI Technologies (Tokyo SIGHT Organizer)

Date/Venue: June 30, 2024 at Pacifico Yokohama (Workshop within WCCI2024)

Number of presentations: 5 (including 2 invited talks)

Number of attendees: 18

• 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 navigator to talk about their specialized field and experience to give some opportunities to think about the future career for primary school students.Date/Venue: September 9, 2024.Number of attendees: 7 (instructors)SIGHT Activities

SIGHT Activities are same above.

B.10 Community Activities

- IEEE Social activities (Family day, IEEE day, Engineers Week)"
 - Tokyo Section had a celebration for newly selected IEEE Fellows on March 14th, 2024.

PART C - OTHERS

C.1 Special Events

• The "The Pioneering TRON Intelligent House, 1989" and "Pulse Oximetry, 1972" were certified as IEEE milestones. The dedication ceremonies for IEEE milestone were held on November 14, 28 2024.

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 IEW2024 and R10Japan SYWL held in Tokyo on August 29-September 1st. Joint activities with any other Sections
- 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 five MOUs in total for TCS/FCS in 2024.

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" license in collaboration with Japan Council.
- To enable to work efficiently from home, 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.

• After COVID-19, the conventional method to hold events needed to change. In 2024 online or onsiteonline 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.
- · New Senior Member serves to nominate one Senior Member.

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.