

IEEE Tokyo Section Report

For

2018

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PART A - SECTION SUMMARY

A.1 Executive Summary

- The IEEE Tokyo Section's Year 2018 General Assembly was held on March 29th. After the General Assembly, the first lecture of 2018 was hosted by the Tokyo Section, and also a celebration ceremony for newly selected IEEE Fellows in 2018 was held. 5 new IEEE Fellows in the Tokyo Section attended the ceremony.
- The Tokyo Section Executive Committee Meetings of 2018 were held 4 times, March 29th with 16 participants, June 15th with 19 participants, September 28th with 15 participants and December 18nd with 17 participants.
- Technical Program Committee of the Tokyo Section hosted 10 lecture meetings.
- Tokyo YP 10th Anniversary Event was held at Nippon University, December 1st, 2018.
- SIGHT IEEE Tokyo Section was established. (#18-002, March 1st, 2018 approved)
- **<Section Officer>**
 - Chair: Iwao SASASE
 - Vice Chair: Yoshiaki SATO
 - Secretary: Toshihiko SUGIE
 - Treasurer: Yukitoshi SANADA
 - <Executive Committee Members>**
 - Seishi TAKAMURA, Masahiro ASADA, Takashi YATSUI, Fumio FUTAMI, Hiroyuki KAYANO, Akinori UENO, Akira OKADA, Haruo OKUDA, Tetsuya MIKI, Mayumi SUZUKI, Kazuo HAGIMOTO, Hidenobu HARASAKI, Hiroki FUJISHIRO, Yasuhiro TAKISHIMA, Natsuko NODA

January 1st : replacement of Executive Committee Member, from Emi YANO to Natsuko NODA, due to transference (JC-WIE Chair).

A.2 Financial Report

IEEE IEEE : Region 10 : Region 10 JPY Income Statement FY 2018

Financial Row	Amount
Sales	
2.10 - Meetings & Social Events	¥92,506.00
3.10 - Rebate from IEEE HQ	¥4,255,762.00
3.20 - Region Receipts	¥791,759.00
3.30 - Sections or Councils	¥2,012,234.00
3.32 - Receipts from MGA Board, other Major Boards	¥176,800.00
3.34 - IEEE HQ & Societies	¥15,478,723.00
3.40 - IEEE CB Account Interest	¥22,664.00
3.45 - Non-IEEE CB Account Interest	¥85.00
Total - Sales	¥22,830,533.00
Gross Profit	¥22,830,533.00
Overheads	
4.10 - Meetings & Social Events Expense	¥1,284,203.00
4.80 - Student Activities Expense	¥213,811.00
4.90 - Other Program Expenses	¥1,647,972.00
5.10 - Occupancy Expense	¥557,978.00
5.30 - Salaries Expense	¥1,551,301.00
5.50 - Support to Sections/Chapters Expense	¥16,453,094.00
5.60 - Other Management & General Expenses	¥633,023.00
Total - Overheads	¥22,341,382.00
Operating Profit	¥489,151.00
Net Profit/(Loss)	¥489,151.00

* We performed secretariat cost separation between the Japan Council and the Tokyo Section. Thus the Tokyo Section will support one fifth of labor and rent cost of secretariat and one fourth of mal/web server expense in 2018.

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

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.

The membership by grade is as follows:

Grade	Number (12/31/2016)	Number (12/31/2017)	Number (12/27/2018)
Life Fellow	183	187	209
Fellow	160		124
Life Senior Member	84	87	103
Senior Member	448	468	466
Life Member	279	306	369
Member	5,703	5,580	5,520
Associate	210	197	201
Graduate Student Member	593	615	664
Student	173	205	181
Others(HM, PM, LA)	2	2	2
Total	7,835	7,798	7,839

**Total number of members increased slightly in 2018. Analyzing factors of increase and decrease, we have found that total section number of membership is greatly affected by specific Chapters/Societies. We promoted membership recruitment at section's event and conferences organized by chapters and societies.

- 6 members were newly selected as IEEE fellows from Tokyo Section in 2017.
 1. Kohtaro ASAI
 2. Hajime ASAMA
 3. Akira FUJIWARA
 4. Yoshihito HIRANO
 5. Noriko KAWAKAMI
 6. Hideki MOTOYAMA

- Fellow Nominations Committee distributed emails to promote nominations for Fellow Members.

B.2 Chapter Activities

38 Society Chapters belong to the Tokyo Section 2018. All chapters are active.

The Societies (Society Codes) are as follows:

1. Signal Processing (SP-01)
2. Broadcast Technology (BT-02)
3. Antennas & Propagation (AP-03)

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

With the introduction of IEEE's TCS Fee in 2018, Chapter Operation Committee (COC) responded to the conclusion of MOU and sponsorship, especially for joint chapters.

B.3 Professional and Continuing Education Activities

Following lecture meetings were held during the year of 2018.

1) March 29th

Title Camera-Aware Multi-Resolution Analysis for Raw Image Sensor Data
Compression

Lecturer Keigo HIRAKAWA, University of Dayton

2) May 15th

- Title IT trends in China and activities of Fujitsu R&D Center in China
Lecturer Dr. Satoshi Naoi, CEO, Fujitsu R&D Center Co., Ltd. (FRDC)
- 3) July 5th
Title Renewable energy, light and shadow
Lecturer Prof. Hiroshi Suzuki, Project Professor, Graduate School of Business
Japan University of Economics
- 4) July 9th
Title Radar Measurement of Precipitation from Space
Lecturer Dr. Toshio Iguchi, National Institute of Information and Communications
Technology (NICT), IEEE Fellow, NICT Fellow
- 5) September 6th
Title Integrated nanophotonics based on photonic crystals
Lecturer Prof. Masaya Notomi, Senior Distinguished Scientist, Nanophotonics
Center, NTT Basic Research Laboratories /Professor, Department of
Physics, Tokyo Institute of Technology
- 6) September 10th
Title Nobeyama 45m radio telescope reveals the appearance of the universe
Lecturer: Prof. Kenichi Tatematsu, Director, NAOJ Nobeyama
- 7) September 27th
Title What is air traffic control
Lecturer Dr. Shigeru Ozeki, Director, Electric Navigation research Institute
- 8) November 8th
Title Innovation that new imaging technology brings
Lecturer Haruhiko Okumura, Ph.D., IEEE Fellow, Toshiba Corp. /Chiba Univ.
Guest Professor
- 9) December 10th
Title Complex-valued neural networks: Basic ideas and applications in ‘Earth
AI’ and energy-efficient neuro devices
Lecturer Prof. Akira HIROSE, Professor, The University of Tokyo / IEEE Fellow
- 10) December 25th
Title Recent status of automatic operation related to the motor vehicles
Lecturer Members of the Japan Automobile Research Institute

B.4 Students Activities

The Tokyo Section has 13 Student Branches;
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)

Following student activities were held during the year of 2018.

- 1) April 11th Report writing course with more than 400 participants at University of Electro-Communications SB
- 2) April 21th New member recruitment event with 4 participants at Tokyo University of Agriculture and Technology SB
- 3) May 2nd -16th TeX Workshop with 5 participants at Tokyo University of Agriculture and Technology SB
- 4) May 17th LaTeX Workshop with 20 participants at University of Electro-Communications SB
- 5) June 28th Student Branch Workshop with 8 participants at Tokyo University of Agriculture and Technology SB
- 6) August 7, 8th IEEE Student Branch Leadership Training Workshop
- 7) November 3rd 15th IEEE TOWERS at Keio University
- 8) December 14th Slide Writing Course at University of Electro-Communications SB

B.5 Affinity Group Activities

● Young Professionals (YP)

Following activities were held during the year of 2018.

- 1) January 27th Tokyo YP 2018 kickoff Meeting at Tokyo University of Science with 7 participants
- 2) February 24th Scientific manufacturing school for elementary school students at Kanto Gakuin University with 49 participants
- 3) March 21st Facilitator for students in the 18th Congress of the Japanese Society for Regenerative Medicine (18JSRM)
- 4) May 19th The 1st Tokyo YP Engineer's Salon
- 5) July 7th IEEE HACK Challenge Event in Tokyo at Nihon University College of Humanities and Science Campus with 35 participants
- 6) July 12th Delivery Class (Outreach) at Daini-Tanabu elementary school in Aomori Prefecture with 20 participants
- 7) July 23rd -27th COMPSAC 2018 Special Young Professionals Session at National Institute of Informatics, National Center of Sciences, Tokyo with about 100 participants
- 8) August 2nd Delivery Class (Outreach) in "Ministries Tour Day for Children" with 20 participants
- 9) August 26th The 2nd Tokyo YP Engineer's Salon
- 10) August 30th -September 2nd R10 SYWL Congress 2018 in Bali (presentation)
- 11) September 19th The 7th STEP Event(Industry visit)
- 12) October 1st IEEE Day Event (Tokyo)
- 13) October 26th, 27th IEEE SYWL Workshop by Region 10 in Soul2018
- 14) October 28th -31th IEEE TENCON2018 (MGA TRACK)
- 15) November 3rd IEEE TOWERS at Keio University
- 16) December 1st Tokyo YP 10th Anniversary Event at Nippon University
- 17) December 1st Dedication Ceremony of The 10th Career Development Essay

Contest Award

- Life Members Affinity Group (LMAG)

Following activities were held during the year of 2018.

- 1) March 29th The 2018 Annual General Assembly
- 2) May 15th LMAG Evening Salon by Dr. Satoshi Naoi, CEO, Fujitsu R&D Center Co., Kikai Shinko Kaikan building
- 3) July 5th Lecture Meeting by Prof. Hiroshi Suzuki, Graduate School of Business Japan University of Economics (cosponsored with Tokyo Section)
- 4) July 9th Lecture Meeting by Dr. Toshio Iguchi, NICT
- 5) August 29th -September 2 R10 SYWL Congress 2018 at Bali : Presented Tokyo Section Activities
- 6) September 6th Lecture Meeting by Prof. Masaya Notomi, NTT Basic Research Laboratories.
- 7) September 10th IEEE Milestone Tour and Lecture meeting at NAOJ, Inter-University Research Institute Corporation, National Institutes of Natural Sciences, National Astronomical Observatory of Japan, in Nobeyama, Minamimaki, Minamisaku, Nagano Prefecture (cosponsored with Tokyo Section)
- 8) September 27th Tour and Lecture Meeting at Electronic Navigation Research Institute National Institute of Maritime, Port and Aviation Technology (cosponsored with Tokyo Section)
- 9) October 31th Send confidence notice of LMAG executive candidates
- 10) November 8th Technical visit and Lecture Meeting at Toshiba Science Museum (cosponsored with Tokyo Section)
- 11) December 10th Lecture Meeting by Prof. Akira Hirose, University of Tokyo. (cosponsored with Tokyo Section)
- 12) December 25th Technical visit and Lecture Meeting at Japan Automobile Research Institute
- 13) LMAG Newsletter
No.22 and No. 23 were published on May 23th, and October 31th
<http://ieee-jp.org/section/tokyo/en/about/lmag/newsletter.html>

- WIE

Tokyo Section has been actively engaged in the activities of WIE organized by the Japan Council.

B.6 Awards & Recognition Activities

- 2018 R10 Best Membership Retention Large Section Award
- 2018 Outstanding Section Membership Recruitment Performance.(MGA)
- 2018 R10 Young Professionals Outstanding Volunteer in Industry Award (Mayumi Suzuki)

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

The Tokyo Section renewed the Tokyo Section Home Page.

<http://ieee-jp.org/section/tokyo/en/>

The Publications Committee issued a newsletter named “Tokyo Bulletin” seven times during the year of 2018.

<http://iee-jp.org/section/tokyo/report/bulletin.html>

Besides the bulletin, the information on professional and technical meetings was timely distributed to members by IEEE eNotice (e-mail). We make every effort for frequent update of the Section web page (<http://iee-jp.org/section/tokyo/>).

The Publications Committee also submitted articles to the R10 Newsletter in 2018.

<http://www.newsletter.ieeer10.org/>

B.8 Industry Relations

Several Industry members from the Tokyo Section participated in “IEEE Metro Area Workshop (MAW) in Fukuoka 2018”, for a purpose by activation of the Industry relation, organized by IEEE Fukuoka Section. The workshop was held on November 5th, 2017, on Hyatt Regency Fukuoka.

B.9 Humanitarian Technology Activities:

February 25th Pre-launch Event for SIGHT Tokyo at Sagamihara Campus, Aoyama Gakuin University with 16 participants (March 1st, 2018 approved)

July 70th IEEE HACK Challenge Event in Tokyo at Nihon University College of Humanities and Science Campus with 35 participants

July 12th Delivery Class (Outreach) Daini-Tanabu elementary school in Aomori Prefecture with 20 participants

November 10th SIGHT Session in IEEE WIE International Leadership Summit 2018 Tokyo

B.10 Other Organizational Activities

- Chapter Operations Committee
Approved 7 Technical Co-sponsorship and 2 Financial Co-sponsorship.
- 10 members of Tokyo Section participated and presented in R10 SYWL Congress 2018 in Bali.

PART C - OTHERS

C.1 Special Events

- Tokyo YP 10th Anniversary Event was held at Nippon University December 1st, 2018.

The event’s focus was to look into the highlights of the YP Tokyo Affinity Group during the past 10 years and to gather suggestions for future activities and direction.

The key talks of the event were arranged into the theme ‘Why I participated in YP activities’, where volunteers shared their motivation and experience with YP Tokyo Affinity Group. The main two takeaways from the key talks were – (1) YP Tokyo Affinity Group should be a place not only connecting student members to their professional stage but also connecting student members, Women in Engineering members, Life members and post YP members, and (2) YP Tokyo should be a place where YP volunteers can grow while enjoying their activities. An interactive session took place where the participants were divided into nine diverse groups to discuss and present future YP activities under the theme ‘If I am the YP Tokyo chair’.

<http://yp.ieee.org/tokyo-young-professionals-10th-anniversary-congress/>

- Tokyo Section Supported IEEE WIE International Leadership Summit 2018 sponsored by JC-WIE, November 9th, 10th in Tokyo.

WIE ILS Tokyo 2018, the first ILS in Japan, provides opportunities for global networking, mentorship and collaboration through highly interactive sessions designed to foster discussion and collaboration. WIE ILS Tokyo focused on providing leading-edge professional development for women who are starting or at the midpoint of their careers and aims to help female engineers and researchers maximize their potential and shine bright as a beacon in their respective fields.

C.2 Relationship with National Societies

The section maintains a good relationship with 10 national societies who hold the cooperation agreements with the IEEE. The ten societies are:

- The Institute of Electrical Engineers of Japan (IEEJ)
- The Institute of Electronics, Information and Communication Engineers (IEICE)
- The Institute of Electronics, Information and Communication Engineers /Information & Systems Society (IEICE/ISS)
- The Illuminating Engineering Institute of Japan (IEIJ)
- Information Processing Society of Japan (IPSJ)
- The Institute of Image Information and Television Engineers of Japan (ITE)
- The Japan Society of Applied Physics (JSAP)
- The Japan Society for Science Policy and Research Management (JSSPRM)
- Magnetics Society of Japan (MSJ)
- The Society of Instrument and Control Engineers (SICE)

C3. Collaboration with other IEEE Sections

The Tokyo Section (SAC) has supported for four university students to attend the joint student paper contest hosted by Soul Section in Soul, November 24th, 2018.

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

The Tokyo Section had summarized the MOU approval procedures with COC for chapters in Tokyo Section and joint chapters in Japan, to accommodate the introduction of new co-sponsorship policy (TCS Fee).

C.5 Best Practices of your Section

- The sponsorship and co-sponsorship approval guides regarding to Tokyo Section and chapters were summarized and confirmed at Section Executive Committee Meeting.
- Create revised and summarized operation procedures of Tokyo Section and Japan Council for Member ship Development and Chapter Operations corresponding to IEEE URL(website) revision (in Japanese) .

PART D - GOALS AND PLANS

D.1 Continuation of Project/Activity in Progress and Their Implementation Plans

- Encourage and support YP, LMAG and WIE joint activity to build a cross generation network.
- Promote support of Japan Council's operation and develop closer ties with other Sections in Japan.
- Support Student Brunch activities in corporation with R10 and support further establishment of new Student Branches at Tokyo Section.

D.2 Goals and Future Plans

- Increase membership and retention.
- Strengthen relationship with Industry members and provide benefit for Industry members.
- Increase operational efficiency and effectiveness, within the section and its interfaces
- Ensure the sustainable growth and financial stability taking into account of exchange rate and membership.
- Enhance collaboration with regional communities and other non-IEEE societies.
- Comprehensively analyze the opinion of members and various information, and make use of it in section activities.

PHOTOGRAPH



The IEEE Tokyo Section's Year 2018 General Assembly, March 29th, 2018
https://iee-jp.org/section/tokyo/report/bulletin/bulletinvol2018/2018_110.html



2018 New IEEE Fellows in the Tokyo Section



Tokyo YP 10th Anniversary Congress at Nippon University, December 1st, 2018.
https://iee-jp.org/section/tokyo/report/bulletin/bulletinvol2018/2018_114.html

End