

IEEE Tokyo Section Report

For

2017

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PART A - SECTION SUMMARY

A.1 Executive Summary

- The IEEE Tokyo Section's Year 2017 General Assembly was held on March 29th. After the General Assembly, the first lecture of 2017 was hosted by the Tokyo Section, and also a celebration ceremony for newly selected IEEE Fellows in 2017 was held. 5 new IEEE Fellows in the Tokyo Section attended the ceremony.
- The Tokyo Section Executive Committee Meetings of 2017 were held 4 times, March 29th, June 16th, September 29th and December 22nd.
- Technical Program Committee of the Tokyo Section hosted 7 lecture meetings.

- **<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, Emi YANO

April 1st; replacement of Technical Program Committee Chair, from Ichiro SETO to Hiroyuki KAYANO, due to transference.

September 1st; replacement of Young Professionals Chair, from Takehiro SATO to Mayumi Suzuki, due to transference.

A.2 Financial Report

IEEE : Region 10 : Region 10 JPY Profit and Loss From Jan 2017 to Adjust 2017

Tokyo Section, Feb 9

Financial Row	Amount
Income (Sales)	
2.10 - Meetings & Social Events	¥93,000.00
3.10 - Rebate from IEEE HQ	¥4,417,976.00
3.20 - Region Receipts	¥252,389.00
3.30 - Sections or Councils	¥1,524,633.00
3.32 - Receipts from MGA Board, other Major Boards	¥216,000.00
3.34 - IEEE HQ & Societies	¥15,246,321.00
3.40 - IEEE CB Account Interest	¥9,071.00
3.45 - Non-IEEE CB Account Interest	¥77.00
Total – Income (Sales)	¥21,759,467.00
Gross Profit	¥21,759,467.00
Expense(Overheads)	
4.10 - Meetings & Social Events Expense	¥740,311.00
4.80 - Student Activities Expense	¥530,721.00
4.90 - Other Program Expenses	¥791,338.00
5.10 - Occupancy Expense	¥557,065.00
5.30 - Salaries Expense	¥1,564,932.00
5.50 - Support to Sections/Chapters Expense	¥16,335,242.00
5.60 - Other Management & General Expenses	¥677,546.00
Total –Expense(Overheads)	¥21,197,155.00
Operating Profit	¥562,312.00
Net Profit/(Loss)	¥562,312.00

* 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 2017

IEEE : Region 10 : Region 10 JPY
Balance Sheet
End of FY 2017

Tokyo Section, Feb 9

Financial Row	Amount
Assets	
Current Assets	
Bank	
70288 - Sumitomo Mitsui Banking Corporation TOKYO	¥9,266,341.00
72468 - TOKYO Petty Cash	¥20,000.00
72992 - TOKYO GOLD	¥228,619.00
74802 - Custody Banking Tokyo Section	¥336,498.00
Total Bank	¥9,851,458.00
Accounts Receivable	
11900 - Accounts Receivable	¥34,857.00
Total Accounts Receivable	¥34,857.00
Total Current Assets	¥9,886,315.00
Fixed Assets	
19010 - Furniture & Equipment	¥3,853,815.00
Total Fixed Assets	¥3,853,815.00
Other Assets	
19060 - Accumulated Depreciation	-¥3,853,815.00
19750 - Other Assets	¥145,600.00
Total Other Assets	-¥3,708,215.00
Total Assets	¥10,031,915.00
Liabilities & Equities	
Liabilities	
Current Liabilities	
Accounts Payable	
20105 - Accounts Payable	¥2,622,320.00
Total Accounts Payable	¥2,622,320.00
Total Liabilities	¥2,622,320.00
Long Term Liabilities	
74246 - Reserve Allocation Payable	¥3,277,505.00
Total Long Term Liabilities	¥3,277,505.00
Total Liabilities	¥5,899,825.00
Equities	
Capital and Reserves	
Retained Earnings	¥3,569,778.00
Net Income	¥562,312.00
Total Capital and Reserves	¥4,132,090.00
Total Equities	¥4,132,090.00
Total Liabilities & Equity	¥10,031,915.00

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 (12/31/2015)	Number (12/31/2016)	Number (12/31/2017)
Life Fellow	172	183	187
Fellow	171	160	151
Life Senior Member	78	84	87
Senior Member	443	448	468
Life Member	263	279	306
Member	5,712	5,703	5,580
Associate	234	210	197
Graduate Student Member	598	593	615
Student	219	173	205
Others(HM, PM, LA)	2	2	2
Total	7,892	7,835	7,798

**members decreased in 2017. The concerning point is the decreasing number of members, Otherwise, the number of Graduate Student Senior and Life members are increasing.

- 7 members were newly selected as IEEE fellows from Tokyo Section in 2017.
 1. Hideto HIDAHA
 2. Kenichi KAGOSHIMA
 3. Hironori KASAHARA
 4. Takao KOBAYASHI
 5. Junichi NAKAMURA
 6. Shu NAMIKI
 7. Toshihisa SHIMIZU

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

B.2 Chapter Activities

38 Society Chapters belong to the Tokyo Section 2017.

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. Magnetics (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)

B.3 Professional and Continuing Education Activities

Following lecture meetings were held during the year of 2017.

1) March 2nd

- | | |
|----------|---|
| Title 1. | IEEE Milestones in Electrical Engineering and Computing |
| Lecturer | Isao Shirakawa, IEEE Japan Council History Committee Chair |
| Title 2. | The World's first Car Navigation System, Honda Electro Gyroator |
| Lecturer | Takahashi, President of NF Corporation |
| Title 3. | Research and Development of High Definition Television System |
| Lecturer | Tatsuya Kyomitsu, General Manager of Honda R&D Co. Ltd. |

2) March 6th

- | | |
|----------|--|
| Title 1. | IEEE Milestones in Electrical Engineering and Computing |
| Lecturer | Isao Shirakawa, IEEE Japan Council History Committee Chair |

- Title 2. Issac Koga's Quartz oscillator and IEEE Milestone
Lecturer: Kenichi Iga, Emeritus Professor / Former President, Tokyo Institute of Technology
- Title 3. From Quartz Oscillator to Optical Communication -Research of Communications in Tokyo Institute of Technology
Lecturer: Yasuharu Suematsu, Honorary Professor / Past President, Tokyo Institute of Technology
- Title 4. Towards Affluent Human Society, Artificial Intelligence, Internet of Things and Big Data
Lecturer: Nobuhiro Endo, Chairman of the Board, NEC Corporation
- Title 5. Science, Technology and Innovation Strategies in Japan
Lecturer: Kazuo Kyuma, Member of Council for Science, Technology and Innovation / Former Executive Vice President of Mitsubishi Electric Corporation

3) March 29th

- Title: Expectation to Materials Science Towards the Next Generation Electron Devices
Lecturer: Prof. Akira Toriumi, The University of Tokyo, (Recipient of "2017 IEEE Cleo Brunetti Award")

4) June 14th

- Title 1. Overview of IEEE Milestones
Lecturer: Isao Shirakawa, Chair, IEEE Japan Council History Committee
- Title 2. Development of the NRO 45-m radio telescope by the Mitsubishi Electric Corporation
Lecturer: Osamu SAKAKIBARA, OB, Mitsubishi Electric Corporation
- Title 3. 45-m radio telescope pioneering millimeter wave astronomy
Lecturer: Norio KAIFU, Former Director General, National Astronomical Observatory of Japan

5) July 13th

- Title : "Research and Development of human-centric AI in Fujitsu AI Laboratory".
Lecturer: Dr. Nobuhiro Yugami, Senior Director, AI Laboratory, Fujitsu Laboratories Ltd.

6) August 9th

- Title: "Historical Activities in IEEE: IEEE Milestones, Women's Role in Electrical History, and Some Topics".
Lecturer: Dr. Michael Geselowitz, Senior Director, IEEE History Center and Dr. Allison Marsh, Chair, 2017 IEEE History Committee.

7) October 6th

- Title: Investigation on the inductor-type high-frequency alternator of Yosami Radio Transmitting Station and its IEEE Milestone Certification
Lecturer: Eisuke Arai, Prof. Emeritus of Nagoya Institute of Technology

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)

Student Branch of Aoyama Gakuin University was established on April 25th 2017.

Following student activities were held during the year of 2017.

- 1) March 3rd Japan SYWL Workshop
- 2) March 4th IEEE Student Branch Leadership Training Workshop
- 3) April 7th 2016 Paper Contest (Tokyo Institute of Technology SB)
- 4) April 15th Research Exchange Seminar (Tokyo University of Agriculture and Technology SB & University of Electro-Communications SB)
- 5) April 22nd Report writing course (University of Electro-Communications SB)
- 6) April 26th Spreadsheet Workshop (Tokyo University of Agriculture SB)
- 7) May 17,24,31 TeX Workshop (Tokyo University of Agriculture and Technology SB)
- 8) May 25th LaTeX Workshop (University of Electro-Communications SB)
- 9) July 8th IEEE HACK Challenge Event
- 10) October 7th Aoyama Gakuin University SB Workshop
- 11) October 11th C language/ Python Workshop (TUA SB)
- 12) October 14,21,28 Hackathon (Aoyama Gakuin University SB)
- 13) October 28th Joint Study Meeting (TUA SB & Aoyama Gakuin SB)
- 14) November 4th 14th IEEE TOWERS (Tokyo University of Science)
- 15) November 8th LaTeX Workshop (University of Electro-Communications SB)
- 16) December 2nd Career Day (WASEDA University SB)

B.5 Affinity Group Activities

- Young Professionals (YP)

Following activities were held during the year of 2017.

- 1) January 20th Aoyama Gakuin University SB Operation meeting
- 2) January 29th 2017 YP Kickoff Meeting
- 3) March 3rd IEEE Japan Sections' 60th Anniversary Celebration
- 4) March 4th-5th Attending IEEE R 10Meet
- 5) July 8th -9th IEEE HACK Challenge Event in Tokyo
- 6) August 10th -11th Attend ANZSCON 2017 in Sydney
- 7) August 11th -13th Attend Sections Congress 2017 in Sydney
- 8) September 5th The 6th STEP Event
- 9) October 7th -8th IEEE Metro Area Workshop in Nagoya
- 10) November 4th IEEE TOWERS
- 11) December 2nd Career Day Event
- 12) December 2nd The 9th Career Development Essay Contest

- Life Members Affinity Group (LMAG)
Following activities were held during the year of 2017.
 - 1) March 29th The 2017 Annual General Assembly
 - 2) May 19th LMAG Evening Salon
 - 3) July 13th Fujitsu Laboratories Tour & Lecture Meeting
 - 4) October 6th Yosami Radio Transmitting Station Tour & Lecture Meeting
 - 5) October 7th Supported Nagoya Section LMAG Launch Ceremony
 - 6) October 8th IEEE Student/YP/WIE/ LMAG (SYWL) Networking Workshop
(IEEE Metro Area Workshop in Nagoya)
 - 7) November 4th Supported IEEE TOWERS
 - 8) November 5th -8th Presentation for TENCON 2017 in Malaysia
 - 9) LMAG Newsletter
No.19, No.20 and No. 21 were published on April 10^h, August 15th and November 30th .
<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

- Takao NISHITANI, IEEE Donald O. Pederson Award in Solid-State
- 2017 R10 YP Affinity Group Award
- 2017 R10 Outstanding Achievement in Member Recruitment
- Kojiro NISHIMIYA, 2017 R10 YP Outstanding Volunteer in Academic Award
- Certificate of Recognition for Outstanding Achievement in Member Recruitment during 2017 Membership Year.

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” five times during the year of 2017.

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

Besides the bulletin, the information on professional and technical meetings was timely distributed to members through our membership database from SAMIEEE system by e-mail. We make every effort for frequent update of the Section web page (<http://ieee-jp.org/section/tokyo/>).

The Publications Committee also contributed 7 articles to the R10 Newsletter June2017.

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

B.8 Industry Relations

Several Industry members from the Tokyo Section participated in “IEEE Metro Area Workshop (MAW) in Nagoya 2017”, for a purpose by activation of the Industry relation,

organized by IEEE Nagoya Section. The workshop was held on October 7-8, 2017, on Chukyo University Nagoya Campus.

B.9 Humanitarian Technology Activities:

- Started to prepare for establishment of SIGHT (Special Interest Group on Humanitarian Technology) in Tokyo Section.(December 22th)

B.10 Other Organizational Activities

- Chapter Operations Committee:

Approved 8 Technical Co-sponsorship and 2 Financial Co-sponsorship.

- R 10 Meeting 2017 was held on March 4th-5th in Chiba Japan. Tokyo Section supported the R10 Meet 2017 as hosting section. Prof. Iwao SASASE, Chair of the Tokyo Section attended as the primary delegate and other 6 members of Tokyo Section attended as secondary delegates.

PART C - OTHERS

C.1 Special Events

- Dedication ceremony of IEEE Milestone for “Map-Based Automotive Navigation System” was held in the hall on the second floor of Honda Aoyama Building, Honda Motor Co., Ltd., Japan on March 2nd, 2017. Ms. Karen Bartleson, IEEE President & CEO, presented a commemorative plaque to Mr. Takahiro Hachigo, President of Honda Motor Co., Ltd
- Dedication ceremony of IEEE Milestone for “Invention of a Temperature-Insensitive Quartz Oscillation Plate” was held in the hall on the Ferrite Memorial Room of the Centennial Hall in the Tokyo Institute of Technology, Japan on March 6th, 2017. Ms. Karen Bartleson, IEEE President & CEO, presented a commemorative plaque to Prof. Yoshinao Mishima, Tokyo Institute of Technology President.
- Dedication ceremony of IEEE Milestone for “Nobeyama 45-m Telescope” was held at Josui Kaikan Tokyo on June 14, 2017. Mr. James A. Jefferies, IEEE President-Elect, presented a commemorative plaque to Dr. Masahiko Hayashi, Director General of National Astronomical Observatory of Japan, NAO, and Mr. Masaki Sakuyama, President & CEO of Mitsubishi Electric Corporation.

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 has supported the following Event.

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

The Tokyo Section had completed chapter transition from Japan Council to joint section chapters headed by the Tokyo Section in 2016. The new operation in chapters in Tokyo Section has started in corporation with the joint sections.

C.5 Best Practices of your Section

The Tokyo Section supported for planning of Metro Area Workshop in Nagoya 2017.

In corporation with Japan Council, Tokyo Section support Region 10 Meeting 2017 on March 4th-5th in Chiba Japan as hosting section, and IEEE Japan Sections' 60th Anniversary Celebration held on March 3rd, 2017, at Chiba Japan, in the series of IEE R10 Fifty Years Celebrations.

PART D - GOALS AND PLANS

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

- Advance the cooperative relations with Boston Section and Seoul Section based on the sister section agreements.
- 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
- 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.

End