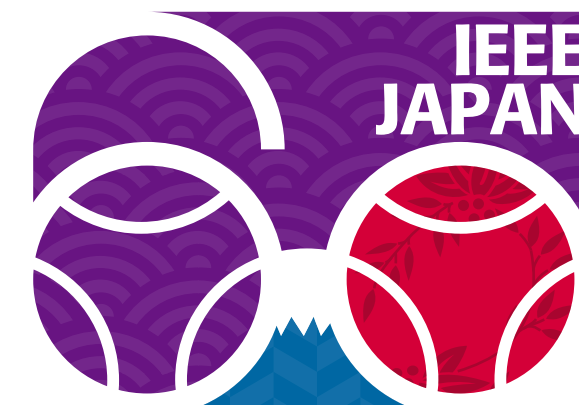




Supporting Members



IEEE Japan Sections' 60th Anniversary Celebration

Organized by IEEE Japan Council in the series of
IEEE R10 Fifty Years Celebrations

3rd March 2017 - Chiba Institute of Technology, Chiba Japan





Toshitaka Tsuda

2017-2018 Japan Council Chair,
Celebration Committee Representative

Toshitaka Tsuda



Tomonori Aoyama

Japan Council Past Chair,
Ceremony Committee Representative

青山友紀

It is our pleasure to celebrate the 60th anniversary of IEEE Japan Sections' activities. We also would like to congratulate the IEEE Region 10 for their 50th anniversary. IEEE Sections in Japan started as IRE Tokyo section with only 50 members in 1955 in advance of IEEE establishment, and it reformed as IEEE Tokyo section when IEEE was established in 1963. Tokyo Section covered all IEEE members in Japan until 1998 when 8 IEEE sections were established, and Japan Council was established in 1999. Based on the enthusiastic volunteer works of members together with the strong support provided by industry, it expanded to 9 sections with about 14,000 members. We have been at the leading edge of science and technology in the electric/electronic/computer/communication fields, and have created many technological innovations. The issuance of more than 30 IEEE Milestone certificates to Japanese Industries and Universities is but one of the examples. Based on this foundation, IEEE members in the 9 Sections in Japan are continuing groundbreaking work in innovative technologies, and contributing to society. IEEE is an excellent global institute of engineers. However, to strengthen the contribution to society, localization of technology that ties advances to local needs, is also important. Localization is one of the fields in which the sections can best demonstrate their strength. We hope that Japan sections will further enhance this aspect. Towards this direction, we need to talk with citizens, local governments, engineers and scientists of other fields such as social science, earth environment, art and culture, and economy. Increasing the involvement of industry engineers, women, and younger generation is essential to ensure the success of these efforts. Congratulations again. We will make strong efforts to realize that IEEE Japan sections' activities become more enthusiastic and enjoyable, and as a result keep contributing to humanity with science and technology.



Message from 2017 IEEE President Karen Bartleson

This celebration marks 60 years of involvement in and support of IEEE, beginning with the original 50 members of the Tokyo Section. Your vibrant and dynamic group has grown to over 14,000 members in nine sections across the country. Your members have helped to lead IEEE at its highest levels, and your work continues to be integral to our organization's ongoing successful evolution and expansion. For six decades, the members and volunteers of the IEEE Japan Council have been drivers of technological advancement and economic growth. This is evident in the 29 IEEE Milestone dedications which honor significant technical achievements across the country. I congratulate you on your record of endeavor and achievement, and I look forward to the strides you will make over the next 60 years. I humbly request that you continue inspire those around you to learn, to innovate, and to discover.

Karen Bartleson
2017 IEEE President and CEO



Message from 2017-2018 IEEE Region 10 Director Kukjin Chun

On behalf of Region 10, I would like to congratulate IEEE Japan Sections' 60th Anniversary. I have asked IEEE Japan leadership to host the Region 10 Annual meeting since Tokyo section was the oldest section in Region 10. IEEE sections in Japan are very much appreciated for long time membership support by volunteers and industries with close collaboration which sets an example for other countries. I hope Japanese sections will continue to make good contribution to the advancing technology for humanity.

Kukjin Chun
IEEE Region 10 Director 2017-2018

An overview of Japan Sections' 60 years

The IEEE activities in Japan started with the Tokyo Section. Through the great efforts of Dr. Fumio Minozuma, a local section of the Institute of Radio Engineers (IRE) was organized in 1955 in Japan as the IRE Tokyo Section. In 1963, IRE and the American Institute of Electrical Engineers (AIEE) were merged to form the IEEE. Accordingly, the IRE Tokyo Section became the IEEE Tokyo Section. The first R10 Meeting was held at NHK center in Tokyo 1973.8.

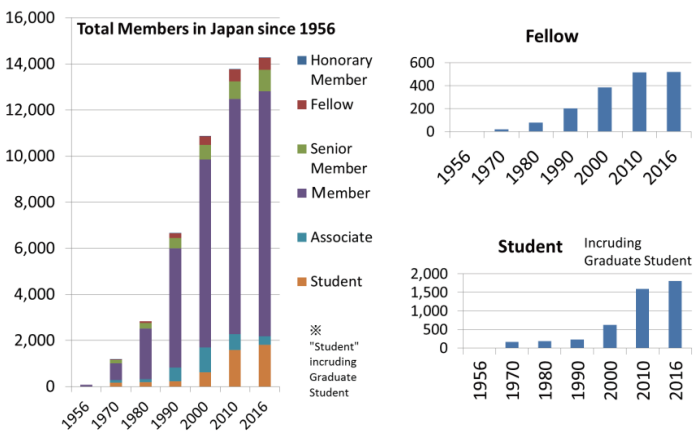
Initially, it started with a membership of 72 and has grown annually, to about 10,000 in 1998. Use of “Tokyo” in the name and not “Japan” came from the IEEE tradition of naming Sections after cities. However, in 1998, it was decided that the Tokyo Section should be split into eight Sections to further develop IEEE activities and promote member services and membership development in local regions in Japan.

In November 1998, a petition for the formation of seven new Sections was officially approved by the IEEE. Through the reorganization, the new Tokyo Section became one of eight Sections in Japan. In June 1999, the eight Sections agreed to establish the IEEE Japan Council for the purpose of coordinating all sections in Japan. Shin-etsu Section was also established in June 2006. Now, there are nine sections in Japan.

Currently we have over 14,000 members in Japan. IEEE members in Japan have received many Medals, Technical Field Awards, and Recognitions for their outstanding technical contributions. We also have been awarded over 30 IEEE Milestones for ground-breaking and epoch-making technologies developed in Japan.



1973 R10 Meeting, Tokyo, August 31 at NHK center.



Student Branch

IEEE Student Branches provide opportunities for IEEE Student Members to begin networking in their areas of interest and future profession. Among the over 3,000 Student Branches globally, in Japan, Shizuoka University Student Branch was established as the first IEEE Student Branch in the Asia-Pacific Region in 1968.

Today, there are 30 Student Branches in Japan. The Student Activities Committee conducts regular and special activities to improve technical knowledge and management skills and to enhance networking among young professionals and senior members in academia and industry.



Student Branch at Shizuoka Univ., July 1968.

Young Professionals

IEEE Young Professionals (YP) is an international community interested in evaluating career goals, polishing professional image, and creating a lifelong and diverse professional network.

Tokyo YP (formerly Tokyo GOLD) Affinity Group was established as the first YP Affinity Group in Japan in November 2008, and now we have YPs in Kansai and Nagoya as well. With the aim of improving both technical and leadership skills, we organize activities such as workshops, essay contests, ideathon / hackathons, and other networking events. Tokyo YP won the 2016 IEEE Young Professionals Affinity Group Hall of Fame Award, which has been conferred on only three YP Affinity Groups in the world.

We will continue to make active efforts to support young engineers and researchers in support of their careers.



The 2016 IEEE Young Professionals Affinity Group Hall of Fame Award.



Japan Council WIE kickoff meeting, July 8, 2005.

Women in Engineering

IEEE Women in Engineering (WIE) is an international organization within IEEE focused on inspiring, engaging and advancing women in technology. In 2005, Japan Council WIE Affinity Group was formed as the first WIE Affinity Group in Japan. Now, we have Sapporo and Kansai WIE Affinity Groups as well, and WIE activities such as symposiums, forums, workshops, mentoring and networking are active throughout Japan. WIE is looking forward to working together with all of you to innovate for the benefit of humanity.



Career Development workshop and 2016 IEEE Day Party.



SB-YP-WIE-LMAG joint Workshop, April 18, 2015.

Life Members

LMAG (Life Members Affinity Group) is a local unit of an IEEE Section, constituted by members who obtained Life Member status; it fulfills the needs of the local Life Members. In Japan, currently there are around 900 Life Members and the number is gradually increasing.

Presently, there are two LMAGs in the Japan IEEE Sections of Tokyo and Kansai. The Tokyo Section LMAG was formed in 2010 and the one in Kansai Section was formed in 2012. Main activities of the LMAGs are planning and organizing lectures, technical tours cosponsored by Technical Program Committees of local Sections, and joint workshops with other affinity groups, and the publication of newsletters.

Industry Promotion

Collaboration with industry is crucial. We are establishing strong relationships with companies to promote IEEE. We successfully organized two Metro Area Workshops in Tokyo and Kansai in 2015 and 2016 respectively. In 2017, we are going to organize one in Nagoya to further promote industry involvement.



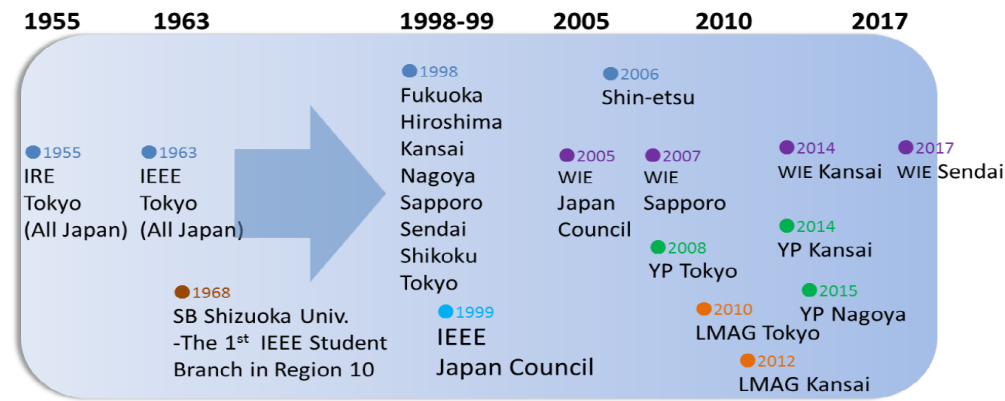
MAW 2015 (Tokyo Section).



MAW 2016 (Kansai Section).

Promotion of IEEE Milestone

In Japan, the first IEEE Milestone was dedicated in 1995 for the Directive Short Wave Antenna. Since then, thanks to volunteering works by many persons, especially Ei-ichi Ohno, Eiju Matsumoto and Isao Shirakawa, a total of 29 Milestones have been dedicated, 16 in Tokyo Section. 8 in Kansai Section, 4 in Nagoya Section and 1 in Sendai Section. In addition, 4 more Milestones have been approved, 3 in Tokyo Section and 1 in Fukuoka Section, for which dedication ceremonies are planned in the near future.



An overview of Japan Sections' 60 years

The IEEE Japan Council history committee will continue work on researching more significant technical achievements and on promoting nominations for IEEE milestones.



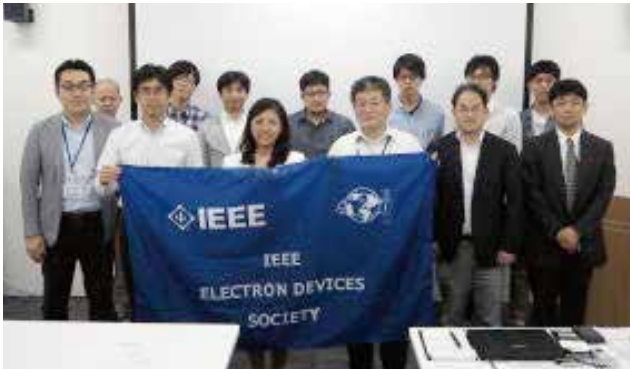
Milestone : Directive Short-Wave Antenna



IEEE Technical Tour of Japan May 2012, Victor Company of Japan, Ltd. in Yokosuka.

Chapters

The MTT (Microwave Theory and Techniques) Tokyo chapter was founded as the first chapter in Japan in 1958. By 2005 45 chapters were established and 68 chapters have been implementing vigorous activities including international exchanges in their specialized fields. From 2013, Chapters transition from Japan council to each section was started and the application procedure was completed.



IEEE Electron Device Society Distinguished Lecturer Seminar, Tohoku University, November 23, 2016.

Various Activities

The IEEE's 125th anniversary was celebrated in Tokyo in 2009, with attendance of IEEE volunteer leaders in and out of Japan, inviting Japanese leaders of national societies, industry and academia.

Furthermore, we successfully organized TENCON, a flagship conference focused on technical fields that attracted IEEE members' strong interest in Region 10, in Fukuoka in 2010. R10 Humanitarian Technology Conference(HTC) held in Sendai in 2013 was IEEE's first humanitarian conference organized in the Asia-Pacific Region; it focused on how engineering could contribute to the victims of and minimize the damages caused by natural disasters.



IEEE 125th anniversary cerebation in Tokyo.



HTC 2013 in Sendai.



TENCON2010 in Fukuoka.

Awards

We are aggressively promoting the nomination of various IEEE awards and recognition programs. From 1996 to 2017, 33-Medals, 93-Technical Field Achievements (TFA), and 17-Recognitions were presented for various contributions. 1972 IEEE Founders Medal, which was the first medal in Japan, was presented to Mr. Masaru Ibuka, Chairman, Sony Corporation, “for outstanding leadership in applying solid-state devices in consumer electronics, thereby enhancing industry growth and bringing distinction to the profession. “ Presentation of the Medal took place on March 22 at the International Convention in New York, during the Annual Banquet.

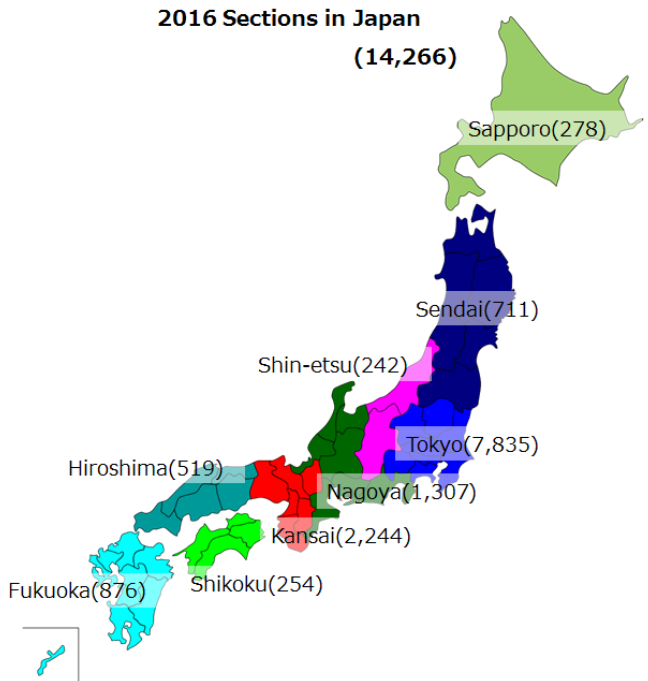


1972 IEEE Founders Medal.

Further, the 2016 Supporting Friend of IEEE Member and Geographic Activities Award was presented to the following 8 companies in the Tokyo Section, with sincere appreciation, in recognition of their long lasting and extensive support of IEEE Japan area operations.

Fujitsu Limited, Hitachi, Ltd. , KDDI Corporation, Mitsubishi Electric Corporation, NEC Corporation, Nippon Telegraph and Telephone Corporation, Sumitomo Electric Industries, Ltd., Toshiba Corporation

Thus, we have engaged in the development of IEEE membership and activities in Japan with extension to Students, Young Professionals, Women Engineers and Life Members. We will be further engaged in these activities involving professionals from both industries and academia, and keep contributing to the benefit of Humanity.



Milestones List

No.	Name of Milestone(Short Name)	Organization	Dedication Date
1	Directive Short-Wave Antenna, 1924	Tohoku University	17-Jun-1995
2	Mount Fuji Radar System, 1964	Japan Meteorological Agency	6-Mar-2000
3	Tokaido Shinkansen, 1964	Central Japan Railway Company	13-Jul-2000
4	Electronic Quartz Wristwatch, 1969	Suwa Seikosha	25-Nov-2004
5	Pioneering Work on Electronic Calculator, 1964-1973	Sharp Corporation	1-Dec-2005
6	Development of VHS, a World Standard for Home Video Recording, 1976	Victor Company of Japan, Ltd	11-Oct-2006
7	Railroad Ticket Examining System, 1965-1971	Omron Corporation, Kintetsu Corporation, Hankyu Corporation, Osaka University	27-Nov-2007
8	The First Word Processor for Japanese Language, 1971 - 1978	TOSHIBA CORPORATION	4-Nov-2008
9	Yosami Radio Transmitting Station, 1929	Kariya City	19-May-2009
10	Development of Ferrite Materials and their Applications, 1930 - 1945	Tokyo Institute of Technology, TDK Corporation	13-Oct-2009
11	Development of Electronic Television, 1924 - 1941	Hamamatsu Technical College (now Shizuoka University)	12-Nov-2009
12	First Transpacific Reception of a Television (TV) Signal via Satellite, 1963	KDDI CORPORATION	23-Nov-2009
13	Kurobe River No.4 Hydropower Plant, 1956-1963	Kansai Electric Power Co., Inc.	9-Apr-2010
14	Commercialization and Industrialization of PV Cells, 1959-1983	Sharp Corporation	9-Apr-2010
15	First Direct Broadcast Satellite Service, 1984	NHK	18-Nov-2011
16	First Practical Field Emission Electron Microscope, 1972-84	Hitachi High-Technologies Corporation	31-Jan-2012
17	International Standardization of G3 Facsimile, 1980	NTT, KDDI	5-Apr-2012
18	Toshiba T1100, a pioneering contribution to the development of laptop PC, 1985	TOSHIBA CORPORATION	29-Oct-2013
19	Birth and Growth of Primary and Secondary Battery Industries in Japan, 1893-1971	GS Yuasa International, Panasonic Corporation	22-May-2014
20	Line Spectrum Pair (LSP) for high compression speech coding, 1975	NTT	18-Aug-2014
21	Sharp 14-inch TFT LCD for TV, 1988	Sharp Corporation	10-Jun-2014
22	Gapless Metal Oxide Surge Arrestor (MOSA) for electric power system, 1975	Meidensha Corporation	5-Nov-2014
23	20 inch diameter Photomultiplier Tubes, 1979-1987	Hamamatsu Photonics k.k	12-Apr-2014
24	The First Trans-Pacific Cable (TPC-1) System, 1964	KDDI	21-May-2015
25	The MU (Middle and Upper atmosphere) Radar, 1984	Kyoto University, Mitsubishi Electric Corporation	12-Nov-2014
26	VAD Method for mass production of high-quality optical fiber, 1977-1978	NTT, Furukawa Electric, Sumitomo Electric, Fujikura	13-May-2015
27	Emergency Warning Code Signal Broadcasting System, 1985	NHK	11-May-2016
28	High Definition TV, 1964	NHK	11-May-2016
29	Keage Power Station, 1890-1897	Kansai Electric Power Co., Inc.	12-Sep-2016
30	Automotive Navigation System, 1981	Honda Motor Co., Ltd.	2-Mar-2017
31	Nobeyama 45-m Telescope, 1982	National Astronomical Observatory of Japan	14-Jun-2017
32	Temperature-Insensitive Quartz Oscillation, 1933	Tokyo Institute of Technology	6-Mar-2017

This table describes the milestones for which the dedication date is fixed.