**IEEE Tokyo Section Report**

**For**

**2012**

Tomonori Aoyama, Chair

Keio University

Tel & Fax: +81-3-5776-7670

Email: aoyama@dmc.keio.ac.jp

**PART A - SECTION SUMMARY**

**A.1 Executive Summary**

* The IEEE Tokyo Section’s Year 2012 General Assembly was held on March 13th (Tue.). After the General Assembly, the First Lecture of 2012 was hosted by the Tokyo Section, and also a celebration ceremony for newly selected IEEE Fellows in 2012 was held. 9 new IEEE Fellows in the Tokyo Section attended the ceremony. The total number of membership stays almost the same as 2011.
* The Tokyo Section Executive Committee Meetings of 2012 were held 4 times, March 13th, June 23 th, September 19th and November 24th.
* Technical Program Committee of the Tokyo Section hosted 11 Lecture Meetings.
* Dedication Ceremony of IEEE Milestone for the First Practical Field Emission Electron Microscope was held on January 31, 2012, at MITO PLAZA HOTEL, Mito, Japan. This is the 16th Milestone in Japan.
* Dedication Ceremony of IEEE Milestone for the International Standardization of G3 Facsimile was held on April 5, 2012, at Imperial Hotel, Tokyo, Japan. This is the 17th Milestone in Japan.
* MGA Strategic Direction and Environmental Assessment (SD＆EA) Committee Meeting was held with Japan Council in Japan Society for the Promotion of Machine Industry on May 11th, 2012.
* **＜Section Officer＞**

Chair: Tomonori Aoyama

Vice Chair: Hirohisa Gambe

Secretary: Yoshihiro Arimoto

Treasurer: Ryuji Kohno

**＜Executive Committee Members＞**

Michihiko Suhara, Fumio Koyama, Hiroyuki Ohsaki, Shigehisa Arai,

Seishi Takamura, Makoto Itami, Isamu Chiba, Yasuharu Ohgo, Kohei Habara

Hideki Imai, Makoto Hanawa, Hideki Hashimoto

**A.1 Financial Report 　\*See the Next Page**



**PART B - ORGANIZATIONAL ACTIVITIES**

**B.1 Membership Development Activities**

The Membership Development Committee made every effort to enhance membership. The membership by grade is as follows:

| Grade | Number(12/31/2011) | Number(12/31/2012) |
| --- | --- | --- |
| Life Fellow | 132 | 148 |
|  Fellow | 203 | 195 |
| Life Senior Member | 59 | 63 |
|  Senior Member | 438 | 448 |
| 　Life Member | 197 | 206 |
|  Member | 5603 | 5753 |
|  Associate | 416 | 372 |
|  Student | 713 | 800 |
| 　Others(HM, PM, LA) | 2 | 2 |
| **Total** | **7763** | **7897** |

\*The Tokyo Section is fifth largest section in the all sections, second largest in R10.

* 13members were newly selected as IEEE fellows from Tokyo Section in 2012.

1. Masahiro Asada

2. Masakatsu George Fujie

3. Kunihiko Hidaka

4. Jiro Hirokawa

5. Takashi Ito

6. Ryuji Kohno

7. Yuichi Matsushima

8. Tetsuya Mizumoto

9. Tohru Mogami

10. Shunri Oda

11. Koji Sakui

12. Ichiro Tai

13. Junji Yamauchi

**B.2 Chapter Activities**

**37** Society Chapters now belong to the Japan Council and 21 Chapters belong to Sections. Move to establish Chapters in each Section is progressing. Tokyo Section cooperates with Japan Council Chapter Operations Committee to encourage new formation of local Chapters.

37 Societies (Society Codes) are as follows:

Signal Processing Society (SP-01)

Broadcast Technology (BT-02)

Antennas & Propagation (AP-03)

Circuits & Systems (CAS-04)

Nuclear & Plasma Sciences (NPS-05)

Vehicular Technology Society (VT-06)

Reliability (RL-07)

Consumer Electronics (CE-08)

Instrumentation & Measurement (IM-09)

Aerospace and Electronic Systems (AES-10)

Computational Intelligence (CIS-11)

Information Theory (IT-12)

Industrial Electronics (IE-13)

Technology Management Council(TM-14)

Electron Devices Society (ED-15)

Computer (COMP-16)

Microwave Theory & Techniques (MTT-17)

Engineering in Medicine & Biology (EMB-18)

Communications (COMM-19)

Ultrasonics, Ferroelectrics & Frequency Control (UFFC -20)

Components, Packaging & Manufacturing Technology (CPMT-21)

Oceanic Engineering (OE-22)

Control Systems (CS-23)

Robotics and Automation (RA-24)

Education (E-25)

Professional Communication (PC-26)

Electromagnetic Compatibility (EMC-27)

Systems, Man & Cybernetics (SMC-28)

Geoscience & Remote Sensing (GRS-29)

Society on Social Implications of Technology (SIT-30)

Power & Energy (PE-31)

Dielectrics & Electrical Insulation (DEI-32)

Magnetics (MAG-33)

Industry Applications (IA-34)

Power Electronics (PEL-35)

Photonics (Formerly LEOS) (PHOT-36)

Solid-State Circuits (SSC-37)

**B.3 Professional and Continuing Education Activities**

Following lecture meetings were held during the year of 2012.

 1) January 17th

Title: “Silicon Power Devices, contributing to the energy of the world

 --- their development and the future “

Lecturer: Dr. Akio NAKAGAWA

(Technical Consultant of Nakagawa Consulting Office)

(★Recipient of the 2010 IEEE William E. Newell Power Electronics Award)

2) January 31st

Title 1: “IEEE Milestones”

Lecturer 1: Dr. Eiichi Ohno (IEEE Japan Council History Committee Chair)

Title 2: “Building a Brighter Beam”

Lecturer 2: Dr. David C. Joy (Distinguished Professor, University of Tennessee)

Title 3: “Study on Structural Stability in Nanometer-sized Alloy Particles

 by FEG-TEM”

Lecturer 3: Prof. Hirotaro Mori (Professor, Osaka University)

Title 4: “History of Hitachi's FE-SEM

 (Field Emission Scanning Electron Microscope)”

Lecturer 4: Dr. Hidehito Obayashi

 (Chairman of the Board, Hitachi High-Technologies Corporation Chairman)

 (Semiconductor Equipment Association of Japan)

 (★2010 Ernst Weber Engineering Leadership Recognition Recipient)

3) March 13th

 Title: "A Lifelong Challenge in Intelligent Robotics”

Lecturer: Dr. Hirochika Inoue (Professor Emeritus of the Tokyo University)

 (★Recipient of 2011 IEEE Robotics and Automation Award)

4) April 5th

Title 1: "IEEE Milestones".

Lecturer 1: Dr. Eiichi Ohno (IEEE Japan Council History Committee Chair)

Title 2: "Redundancy Reduction Coding Techniques of G3FAX for

 International Standardization".

Lecturer 2: Dr. Toyomichi Yamada

(Senior Research Engineer of Electrical Communication Laboratories of NTT,

 ret. and Professor Emeritus of Musashi Institute of Technology)

Title 3: "Role and Effectiveness of International Standardization in G3FAX".

Lecturer 3: Dr. Yasuhiro Yamazaki

(Senior Research Engineer of KDDI R&D Laboratories, ret. and

 Professor of TOKAI University, ret.)

5) April 6th

Title: “Thoughts for Young Engineers”

Lecturer: Dr. Gordon Day (IEEE President)

6) April 6th

Title: “Dual mode - Survival skill in globalization era”

Lecturer: Mr. Yoshio Utsumi

(former Secretary-General of International Telecommunication Union (ITU))

(★Recipient of 2012 IEEE Honorary Membership)

7) May 28th

Title: “IEEE Technical Tour and Historical Activities in Region 8”

Lecturer: Mr. Roland J. Saam

(IEEE IEEE UK & RI Life Member Affinity Group Chair)

(IEEE Region 8 Newsletter Editor)

8) September 19th

Title: “Research on the Internet”

Lecturer: Dr. Jun Murai

 (Professor of Keio University)

 (★Recipient of 2011 IEEE Internet Award)

9) September 28th

Title: “Thoughts for Young Engineers”

Lecturer: Dr. Yasuo Hirata (President of ATR)

(★Recipient of 2006 IEEE Award in International Communication)

10) October 26th

Title: “”

Lecturer: Dr. Tetsuya IIZUKA (Founder and CEO of THine Electronics, Inc.)

(★Recipient of the 2012 IEEE Ernst Weber Engineering Leadership

 Recognition Award)

11) November 26th

Title: “”

Lecturer: Dr. Akira Yoshino (Asahi Kasei Corporate)

(★Recipient of the 2012 IEEE Medal for Environmental and Safety

　 Technologies)

**B.4 Students Activities**

The Tokyo Section has 10 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).

Following student activities were held during the year of 2012.

1. February 27th Keio University Ph.D. Student Paper Contest 2012
2. June 23rd The 7th Career Development Workshop for Young Students and Professionals
3. August 22nd  Visiting tour to Ericsson Japan Laboratory
4. November 17th The 8th Career Development Workshop for Young Students and Professionals
5. November 27th The 9th IEEE Tokyo Young Researchers Workshop
6. December 14th Student Branch Leadership Workshop @ Meiji University
7. Sept.～Nov. Tokyo Institute of Technology2012 Student Paper Contest

**B.5 Affinity Group Activities**

* GOLD

Following other activities were held during the year of 2012.

1) February 23rd 1st IEEE Tokyo GOLD/LMAG Career Development Symposium

2) April 6th IEEE President Gordon Day’s Lecture Co-held with Tokyo Section

3) April 9th Lecture Meeting Co-held with Tokyo Section and Tokyo LMAG

4) June 23rd The 7th Career Development Workshop for Young Students and Professionals

5) September 28th Lecture Meeting Co-held with Tokyo Section and Tokyo LMAG

6) August 8th Tokyo GOLD / JC WIE young member meeting

7) October 6th Career Development Workshop for students in the science and Engineering

8) October 17th The 4th Essay Contest for Career Development Workshop

1. November 17th The 8th Career Development Workshop for Young Students and Professionals
2. November 27th The 9th IEEE Tokyo Young Researchers Workshop
* Life Members Affinity Group
1. January 25th Issued LMAG Newsletter No.4
2. February 23rd 1st IEEE Tokyo GOLD/LMAG Career Development Symposium
3. March 13th The 2012 Annual General Assembly
4. March 16th Issued LMAG Newsletter No.5

5) April 9th The 1st Lecture Meeting Co-held with Tokyo Section

6) May 23rd Issued LMAG Newsletter No.6

7) September 28th The 2nd Lecture Meeting Co-held with Tokyo Section

8) October 25th Issued LMAG Newsletter No.7

* WIE

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

 **B.6 Awards & Recognition Activities**

* Awards and Recognitions Recipients in 2012;

Akira Yoshino : IEEE Medal for Environmental and Safety Technologies

Yoshio Utsumi : IEEE Honorary Membership

Naoya Takahashi : IEEE Reynold B. Johnson Information Storage Systems Award

Tetsuya Iizuka : IEEE Ernst Weber Engineering Leadership Recognition

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

 The Publications Committee issued a newsletter named “Tokyo Bulletin” ninth times during the year of 2012. 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://www.ieee-jp.org/section/tokyo/). Tokyo Section web page also provides the information from the Japan Council, 37 Japan Chapters, and Student Branches.

**B.8 Other Organizational Activities**

 Region 10 annual General Meeting 2012 was held on March 3rd -4th in Kolkata, India, Prof. Aoyama and Dr. Gambe from the Tokyo Section attended.

 MGA Strategic Direction and Environmental Assessment (SD＆EA) Committee Meeting was held with Japan Council in Japan Society for the Promotion of Machine Industry on May 11th, 2012.

 The third Technical Tour of Life Members Committee was finished in Japan from 20 to 28 May 2012, 16 life members and 11 spouses attended from U.S.A. and U.K..

**PART C - OTHERS**

## C.1 Relationship with National Societies

The Section maintains a good relationship with 8 national Societies who hold the cooperation agreements with the IEEE. The eight Societies are

- The Institute of Image Information and Television Engineers of Japan (ITE)

- Japan Society of Applied Physics (JSAP)

- The Society of Instrument and Control Engineers (SICE)

- The Illuminating Engineering Institute of Japan (IEIJ)

- Information Processing Society of Japan (IPSJ)

- The Institute of Electrical Engineers of Japan (IEEJ)

- The Institute of Electronics, Information and Communication Engineers (IEICE)

- The Japan Society for Science Policy and Research Management (JSSPRM)

**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 Section 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**

1. Increase member engagement

2. Improve relationships with and among members

3. Increase operational efficient and effectiveness, within the section and its interfaces

4. Enhance collaboration

 a. Local face of Region/area to members and other non-IEEE societies

 b. Local face of IEEE to community

5. Increase membership

6. Ensure the collection of appropriate information necessary to all the IEEE to become a data driven organization