Tokyo Bulletin No.157

[July 31, 2024]

Public announcement of election for officers and executive committee members of IEEE Tokyo Section Office for Year 2025/2026

You are officially informed that candidates for officers and executive committee members, who had been appointed in conformity with the Tokyo Section Bylaws, were approved as nominees in the 2024 second meeting of Tokyo Section Executive Committee.

If you nominate other candidates than those listed below, you can submit your nomination to the following address with signatures of 2% or more of regular members (the number of regular members is 7358 as of June 2024), by no later than Saturday, August 31, 2024. If this is the case, ballots will be passed out to all the eligible section members by Thursday, October 31, who will then be voting by Saturday, November 30. Final decision on officers and executive committee members of IEEE Tokyo Section Office for Year 2025/2026 will be made based on the voting result.

Candidates for officers

Chair	**Toshiro HIRAMOTO**	**Professor** **The University of Tokyo**
Vice Chair	**Norihiro SUZUKI**	**Chairman** **Hitachi Research Institute**
Secretary	**Digh HISAMOTO**	**Technology Advisor** **Hitachi Ltd.**
Treasurer	**Shinji SUGAWARA**	**Professor** **Chiba Institute of Technology**

Candidates for executive committee members

Chapter Operations	**Akisato KIMURA**	**Executive Research Scientist Nippon Telegraph and Telephone Corporation**
Fellow Nominations	**Toshihiko BABA**	**Professor Yokohama National University**
Membership Development	**Akiko KUMADA**	**Professor The University of Tokyo**
Nominations	**Akira HIRANO**	**Professor Tokyo Denki University**
Technical Program	**Atsushi MATSUMOTO**	**Senior Researcher National Institute of Information and Communications Technology**
Student Activities	**Takashi YOSHIDA**	**Associate Professor Tokyo Metropolitan College of Industrial Technology**
Publications	**Kenichi TAKEDA**	**Distinguished Researcher Hitachi Ltd.**
History	**Haruko KAWAHIGASHI**	**Head Researcher Mitsubishi Electric Corporation**

[Address] IEEE Tokyo Section Office
Room 517, Kikai Shinko Kaikan, 3-5-8 Shibakoen, Minato city, Tokyo 105-0011

Email: tokyosec@ieee-jp.org

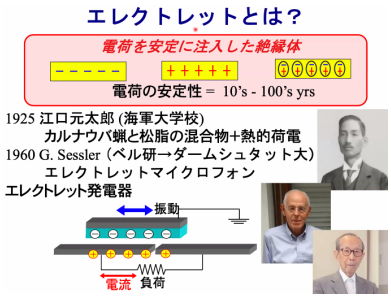
The 2nd Lecture Meeting of Tokyo Section in 2024

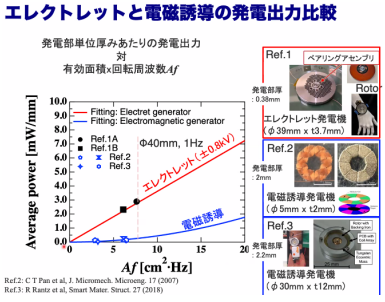
On Tuesday, May 14th, from 15:00 to 16:30, the Tokyo Section Technical Program Committee (TPC) hosted the 2024 2nd Tokyo Section Lecture Meeting with a local hybrid of the Zoom Webinar virtual meeting system (co-sponsored by the IEEE Tokyo Section LMAG (Life Members Affinity Group), co-sponsored by the Institute of Electronics, Information and Communication Engineers). The venue was Kikai Shinko Kaikan, and approximately 90 people participated.

Prof. Yuji Suzuki who received IEEE Fellow in 2020, department of mechanical engineering, graduate school of engineering, University of Tokyo, was invited to give a lecture entitled “Energy harvesting toward battery-less wearable devices”. He explained the significance of energy harvesting with various examples, and gave a detailed explanation on energy harvesting using Electrets that generate power through electrostatic induction, including device development and application case studies.

This time we held the lecture meeting at the local venue with an online hybrid using Zoom Webinar. We will hold virtual online meetings and hybrid meetings to facilitate communication.

(Reported by Technical Program Committee Secretary, Koji Akita)





LMAG Tour - Visit to NTT Musashino Research and Development Center for IOWN

The IEEE Tokyo Section LMAG, co-sponsored by TPC, hosted a tour and lecture at the NTT Musashino Research and Development Center on Tuesday, June 11th, from 14:00 to 17:00. A total of 34 participants attended, including 30 IEEE members. The tour covered the history of telegraph and telephone services, epoch-making technologies and services in telecommunications since the launch of Nippon Telegraph and Telephone Public Corporation (NTT), IEEE milestones, and the vision of IOWN (Innovative Optical and Wireless Network) for the future.

At the NTT History Center of Technologies, participants experienced operating a magnetic telephone and a manual switchboard. They also learned about the progression of technologies, including the latest internet and mobile advancements. The IOWN vision was showcased through exhibits of an all-optical network, photonics-electronics convergence devices, and NTT's version of the LLM "tsuzumi."

Additionally, Dr. Akira Okada, the NTT Senior Vice President of R&D and Head of the Science and Core Technology Laboratory Group, delivered a talk on "Device technology for realizing the IOWN concept." He discussed IOWN technologies, focusing on low power consumption, natural photonics technologies, and future prospects, aiming to achieve both economic growth and sustainability. The tour provided a valuable opportunity to learn about telecommunications technology's history and future vision.

After the tour, the first social gathering and exchange of opinions since the end of the pandemic took place, fostering deeper camaraderie among participants.

(Group Photo)

(NTT History Center of Technology)

(Reported by LMAG-Secretary, Toshihiko Sugie)

Event announcement: 2024 IEEE Industry Engagement Workshop in Tokyo

2024 IEEE Industry Engagement Workshop in Tokyo

Introduction

It is a collaborative event between industry and academic IEEE. It aims to introduce technology trends in fields in which IEEE is deeply involved to the public, provide opportunities for exchange between industry, academia and government, and different fields and industries. And it further promotes Advancing Technology for Humanity, which is the mission of IEEE, and contribute to the development of society.

By holding the conference in conjunction with IEEE R10 SYWL 2024, we expect to see participation from more than 60 Sections from Asian countries. In keeping with the major theme of Collaborative Leadership beyond boundaries, across disciplines and sizes, including large corporations and ventures, By bringing together a diverse range of organizations, including academies and companies, it is expected that through IEW, collaboration and partnerships that transcend barriers will result in innovations.

We look forward to welcoming not only IEEE members but also a wide range of participants.

Program

10:00~10:10 Greetings from IEEE Tokyo Section Chair, PhD. Kiyoharu Aizawa

10:10~10:50 Dr. Thomas M. Coughlin, President, IEEE
「Making and Maintaining our Connections in Industry」

10:50~11:20 Dr. Eng. Yutaka Sata, Corporate Officer, Corporate Senior Vice President, Toshiba Corporation
「Toward Quantum Transformation - Toshiba's quantum tech. R&D and implementation in society」

11:20~11:50 Mr. Hidekatsu Shimono, DNP Dai Nippon Printing Co., Ltd.
「Now is the time for IT. engineering technology for manga content!」

11:50~13:30 Lunch (join SYWL Lunch 12:00~13:30)

13:30~14:00 Mr. Shonosuke Ishiwata, Co-Founder & CEO, Mantra Inc.
「Towards Fully-Automated Manga Translation」

14:00~14:30 Ms. Naho Yashiro, Founder & CEO, MizLinx Inc.
「Development of Ocean Monitoring System for Achieving Sustainable Marine Utilization」
14:30~15:00 Ph.D. Xueting Wang, Research Scientist, AILab, CyberAgent Inc.
「Exploring Generative AI in Creative Content Creation」
15:00~18:00 Participation in SYWL 2024 Poster
18:00~21:00 Participation in SYWL 2024 Cultural Night

Abstract of the speakers

Dr. Thomas M. Coughlin, IEEE President 2024
"Making and Maintaining our Connections in Industry"

To achieve its full potential, IEEE must provide value to individuals who put technology into practice, as well as those who develop new technologies. 2024 IEEE President & CEO Tom Coughlin will discuss how IEEE is striving to lead the way in promoting important technological developments, including standards, technology roadmaps, educational opportunities, publications, and conferences, that help drive the future of industry and increase IEEE's relevance to those involved in the practical applications of technology.
President Coughlin will also discuss how IEEE is equipped to support students, young professionals, and people working in industry, including those from underrepresented groups, by providing relevant

Dr. Eng. Yutaka Sata, Corporate Officer, Corporate Senior Vice President, Toshiba Corporation
" Toward Quantum Transformation - Toshiba's quantum tech. R&D and implementation in society"

Under our basic commitment - "Committed to People, Committed to the Future", Toshiba is dedicated to addressing global sustainability challenges and contributing to the achievement of a society with Carbon Neutrality and Circular Economy. To tackle those issues, we adopt a step-by-step strategy encompassing "Digital Evolution (DE), Digital Transformation (DX) and Quantum transformation (QX)" believing that digital technology and data are keys to resolve these challenges, and quantum technology including quantum

communication and quantum computer will be essential tools for effectively and securely managing the vast amounts of data in society in the future. In this presentation, Toshiba's efforts towards quantum transformation will be introduced, including its R&D for quantum key distribution and quantum computers, as well as related business incubation activities. Additionally, multi-company/academic and international collaborations aimed at enhancing quantum R&D, initiating related business and educating quantum talents will be presented.

Mr. Hidekatsu Shimono, DNP Dai Nippon Printing Co., Ltd.
"Now is the time for IT. Engineering technology for manga content!"

Manga production requires more IT and engineering skills. I would be happy if we could share the challenges we face now in manga content production and generate new insights.
We are thinking of a work in which everyone can join the disparate manga frames(koma) together to complete a single work also.

Ph.D. Shonosuke Ishiwatari, CEO, Mantra Inc.
"Towards Fully-Automated Manga Translation"

With the rapid advancement of cutting-edge technologies such as LLMs, the accuracy and flexibility of machine translation have seen dramatic improvements. This has led to increased adoption of machine translation in various entertainment fields, including manga, games, novels, and movies. In this talk, we will provide an overview of the research and development of Mantra's manga translation AI, which started in 2018. Additionally, we will discuss the challenges in manga translation that have been addressed by machine translation in the era of LLMs, as well as the issues that remain unresolved.

Ms. Naho Yashiro, Founder & CEO, MizLinx Inc.
"Development of Ocean Monitoring System for Achieving Sustainable Marine Utilization"

MizLinx is developing an observation system to achieve sustainable ocean

utilization. In recent years, the fishing industry has faced challenging conditions due to environmental changes and economic fluctuations, and ecosystems are also undergoing changes. Additionally, in the context of decarbonization, offshore wind power is gaining attention, but there is currently a lack of expertise in environmental assessment and maintenance. Through our business, we aim to address these challenges and unlock the potential of ocean utilization.

Ph.D. Xueting Wang, Research Scientist, Cyber Agent, AILab
"Exploring Generative AI in Creative Content Creation"

The rapid development of generative AI technology has created various new possibilities in content creation, such as creative content production in advertising. In this talk, some research and applications utilizing generative AI in the AI Lab of Cyberagent will be introduced, considering the diverse needs and tasks present in the creative content production process.

Venue
■Date : 10:00~21:00 August 31, 2024 (Sat.)
■Venue : National Olympic Memorial Youth Center Room101
3-1. Yoyogi Kamizono-cho, Shibuya-ku, Tokyo 151-0052
Access URL: https://nyc.niye.go.jp/wp/category/english/access-english/

Registration
Please register for participation using the following URL. (An account creation on Peatix is required.)
IEEE IEW Tokyo 2024 (google.com)

■Fee :
IEEE Member ￥2,000
Non Member ￥4,000
Student Free（Please show your student ID at the registration desk)
SYWL Registrants Free
（Lunch and Reception fee are included）

Organized by IEEE Japan Council, Tokyo Section

Notice from IEEE Tokyo Section Office

Tokyo Bulletin is published via E-mail.

- Tokyo Section encourages membership upgrade to Senior Membership. Visit IEEE website for online application. For details, please refer to Senior Member Application procedure.
- Please make sure to notify IEEE HQ of any changes in your address, etc. Online profile management is available on your Web Account.

IEEE Tokyo Section welcomes any comments, requests or inquiries from our members. Please send them to tokyosec@ieee-jp.org.