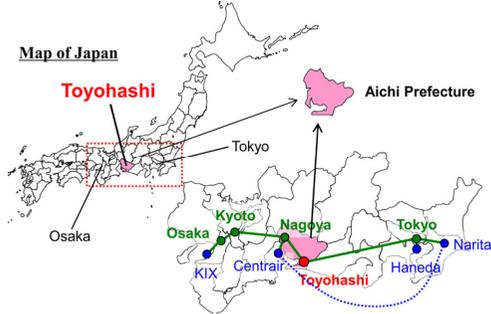


## Invitation

The first ISEIM has been held in Tokyo in 1995, followed by Toyohashi, Himeji, Kitakyushu, Yokkaichi, Kyoto and Niigata, all in Japan. The 8<sup>th</sup> symposium will back to Toyohashi City. This city is in a continuous industrial area stretching from Tokyo to Osaka, as many prehistoric monuments and archaeological traces of different ages can be seen. The place is blessed with various traditional cuisines, such as sake and sea foods. The conference venue is Toyohashi Chamber of Commerce & Industry.

Toyohashi is serviced by *Tokaido Shinkansen* (bullet trains). Visitors can take the train categorized 'Hikari' from Tokyo Station to Toyohashi, a journey of less than 90 min. The easiest way to get to Tokyo Station, for onward transfer to Toyohashi from Narita Airport (NRT), is by using *Narita Express* that takes under one hour to reach Tokyo Station. There are several other ways to land on Japan using Haneda (HND), Osaka Kansai (KIX), and Nagoya Central (NGO) airports. Bullet trains from Shin-Osaka station also needs around 90 minutes to get to the venue.



## Main Topics

1. Space charge, surface and interfacial phenomena
2. Electrical properties of dielectrics and measurement and testing techniques
3. Nanotechnology for dielectrics
4. Inorganic and functional dielectric materials
5. Organic thin films and electronics
6. Dielectric materials for electronics and telecommunication
7. Dielectric properties of biological objects, biodielectronics
8. Inverter Surges
9. Partial discharge
10. Asset management for dielectrics applied apparatus
11. Insulation design, reliability, aging and degradation, their detection and monitoring
12. Polymeric insulators and outdoor insulation
13. Eco-friendly dielectric materials and recycling
14. Electrical insulation phenomena and charging under cosmic and radiological environment
15. Collaborate work with industries and universities

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Chair: Y. Murakami (Toyohashi University of Technology)

### Secretariat

N. Fuse (CRIEPI)

### Contacts:

E-mail: [iseim2017@freeml.com](mailto:iseim2017@freeml.com)



## 2017 International Symposium on Electrical Insulating Materials (ISEIM 2017)

September 11-15, 2017

Toyohashi Chamber of Commerce & Industry,  
Toyohashi City, Japan

## Second Call for Papers

Sponsored by:

IEEJ Technical Committee on Dielectrics and  
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## Inuishi Memorial Lecture

The Inuishi Memorial Lecture Award is named after Prof. Y. Inuishi who is one of great pioneers for our research field in Japan. The symposium opens every three years with the lecture and it is the keynote session of the symposium. The 2017 Inuishi lecture will be given by Christian Laurent, tentatively entitled “Energetics of charge transport in insulating polymers.” Dr. C. Laurent is currently Research Director at CNRS, was until recently Director of LAPLACE in Toulouse and is now Vice Rector Research at the University of Toulouse. He has developed an approach to electrical ageing in polymeric materials based on luminescence analysis. He is now dealing with experimental and modeling activity relating to charge transport and ageing.



## Workshop for “Advanced Nanodielectrics”

An English book entitled “Advanced Nanodielectrics – Fundamentals and Applications –” will be published latest by December, 2016. The book is edited by the Investigating R&D Committee on Advanced Polymer Nanocomposite Dielectrics (Chair: Prof. T. Tanaka, 2010-2013), and it is composed of the investigations by noted Japanese expert committee members. Since it is edited carefully for easy-to-understand even for beginners, it must be helpful for the researchers in this field. The organizing committee of ISEIM 2017 plans an event to introduce you the new book, prior to the symposium, by inviting some authors of the book. They will present you the fundamentals and applications about advanced nanodielectrics in this workshop.

Candidates for lecturer (Not fixed yet.): Prof. T. Tanaka (Waseda Univ.), Prof. Y. Tanaka (Tokyo City Univ.), Dr. T. Imai (Toshiba Corporation), Dr. M. Kozako (Kyushu Inst. Tech.), Dr. M. Kurimoto (Nagoya Univ.)

## Special Sessions for Development of Electrical Insulation Evaluation of Inverter-Fed Motors for the IEC Standardizations

Recent progress of rotating electrical machines fed from voltage converters may face with risk of electrical insulation failure due to high-voltage, high-repetition pulses with short rise time of so-called “inverter-surge.” The investigating R&D committee in IEEJ that consists of experts in the related research fields including hybrid and electric vehicles from not only

academic institutes but also industrial companies in Japan has been established in order to investigate partial discharge (PD) that potentially damages the insulation system and its qualification of random-wound motors based on IEC 60034-18-41. In particular, round-robin test (RRT) of repetitive PD inception voltage (RPDIV) measurements on complete winding of random-wound motor has clarified the statistical properties of RPDIV data obtained at independent laboratories and the significant impact of ambient humidity on RPDIV. The organizing committee is planning to introduce at this special session the digest report of the activities in the R&D committee. We will also provide an opportunity to demonstrate RPDIV measurements using the test equipment used in the RRT.

## Special Session for APIANS - Analysis for Polymeric Insulating Materials Using Advanced Numerical Simulation

After the successful workshop named “APIANS” in the last ISEIM, many presentations related to this theme have been reported by many authors in various conferences. Since the organizing committee would like to accelerate the activity in this research field, a special session for this theme is proposed in the symposium. The session is supposed to be composed of presentations by one or two invited and other general oral speakers.

## MVP (Mutual Visiting type Poster) Session

This session aims to encourage and improve the presentation and discussion abilities of attendees, and give a chance to discuss other poster presentations. Attendees are required to present their poster not only to the attendees who do not present in the session but also to the other presenters of the session. All the attendees of the MVP session that is all the presenters of the MVP session have rights of voting the good presentation, definite replay in discussion, and beautiful poster. The excellent presenter(s) will be awarded in the banquet.

## SS (Industry) Session

This industry session has been held in the previous domestic and international symposiums. They were received very well and many Japanese companies in this field want to participate in the SS session. The aim is to make a opportunity for companies to introduce their developed and developing technologies and products to attendee especially young researchers such as university students and graduate students. It must be a good opportunity to introduce your company.

## Japan-Korea Young Researcher Exchange Program

TC-DEI both in Japan and Korea have started new exchange program for young researchers. Winners are selected from domestic annual conferences in both countries, and get a chance to have presentation under the financial aid.

## Language

The working language of the symposium is English. All printed matter will appear in English.

## Submission of Papers

You are invited to submit an abstract within 400 words by **Jan. 27, 2017**. The abstract submission form is available on the symposium website. Acceptance notices will be sent to corresponding authors by the middle of **March, 2017**. The authors of accepted papers will be requested to electronically submit paper manuscripts by **May 27, 2017**. More information on the manuscript submission will be provided on the ISEIM 2017 web site. Accepted papers will be published in the Symposium Proceedings of USB memory, and corresponding extended abstracts will be published both in the USB and booklet.

## Registration Fees (tentative)

Registration fee including is ¥35,000 (Japanese yen) for members of IEEJ, IEEE, CIGRE, CES, or KIEEME, ¥40,000 for non-members, and ¥15,000 for students with valid IDs. Manuscript submission fee is ¥10,000 per manuscript. This fee will be deducted from the registration fee for the authors presenting their papers, although the maximum deduction is ¥10,000 per attendee.

## Important Dates

<b>Abstract Submission:</b>	<b>Jan. 27, 2017</b>
<b>Acceptance/Rejection Notices:</b>	<b>Middle of Mar., 2017</b>
<b>Manuscript Submission:</b>	<b>May 27, 2017</b>
<b>Conference Dates:</b>	<b>Sept. 12 - 15, 2017</b>

## ISEIM 2017 Web Site

<http://www2.iee.or.jp/~adei/ISEIM2017/>

## Conference Secretariat

Dr. Norikazu Fuse: Central Research Institute of Electric Power Industry, 2-6-1 Nagasaka, Yokosuka, Kanagawa 240-0196, Japan  
E-mail: [iseim2017@freeml.com](mailto:iseim2017@freeml.com)