

IEEE Distinguished Lecturer Programme

by IEEE DEIS (Dielectrics and Electrical Insulation Society)



Polymer Nanocomposite Dielectrics: Fundamentals and Applications



Speaker : Professor Toshikatsu Tanaka (IEEE Fellow), Waseda University, Japan

Date : 7th November 2017 (Tuesday)

Time : 10.00 am – 12.00 pm (Lecture – Free Admission)
2.30 pm – 4.30 pm (Workshop – Paid Admission)

Venue : Seminar Room, Block P06, [Institute of High Voltage and High Current](#),
Faculty of Electrical Engineering, Universiti Teknologi Malaysia, Johor Bahru, Malaysia

[BEM Approved CPD Hours](#)

Lecture: 2 Workshop: 2

FREE Admission to the Lecture

Workshop Admission Fee*

IEEE DEIS Member : RM 50

IEEE Member : RM 75

Non-IEEE Member : RM 100

Speaker Biography:

Toshikatsu Tanaka was born in Tokyo, Japan in 1939. He obtained PhD from Osaka University of Japan in 1968. He is presently Research Fellow at IPS Research Center of Waseda University of Japan (since 2009), and Professor Emeritus of Xi'an Jiaotong University of China (from 2013). He actively managed IEEJ missions as chairman of many technical committees and finally acted as Vice Chairman. He is presently Chairman of IEEJ Committee on New Dielectric Materials "Nanocomposites" (since 2006). Then he worked until March 2009 as Full Professor at IPS Graduate School, Waseda University. He worked for Central Research Institute of Electric Power Industry (CRIEPI) for 38 years and ended as Vice President for the last 6 years. During these 38 years, he worked as Visiting Lecturer at Salford University in the United Kingdom (1970-1972), as Visiting Associate Professor at Rensselaer Polytechnic Institute (RPI) and as Visiting Senior Researcher for General Electric Corporate Research in the USA (1975-76), and as Visiting Professor for Kyushu University in Japan (1993-1997). He published more than 500 science and engineering papers. He is a recipient of the Japanese Ministry of Science and Technology Prize (Japanese Government) in 2000, many awards from Institute of Electrical Engineers of Japan (IEEJ) including Excellent Paper Awards (1970, 1983, 1993), Good Book Publication Awards (1985, 1995, 2008, 2010, 2016), Technology Progress Award (1988) and Socio-technical Contribution Award (1995), and IEEJ Inuishi Award (2001) and several awards from Institute of Electrical and Electronics Engineers of the US (IEEE) such as Whitehead Memorial Lecture Award in 2001 and IEEE Dakin Award in 2002. He is active in IEEJ, IEEE, CIGRE and some other science and engineering societies. He is an IEEE Fellow and an IEEJ Life Fellow.

Lecture Synopsis:

Polymer nanocomposites have attracted much attention as dielectrics and electrical insulation because of their potentially superior performances. In the morning session lecture, Professor Tanaka will provide comprehensive reviews on recent achievements of nanocomposites, including changes in various dielectric and electrical insulation properties such as partial discharge, treeing, space charge, tracking, dielectric breakdown strength, permittivity and dielectric loss, DC conductivity, and surface flashover. Detailed explanation on innovative nanocomposite insulation for high voltage DC and AC power cable technology will also be provided.

Workshop Synopsis:

The participants in the afternoon session workshop will have an opportunity to discuss with Professor Tanaka on any topics of dielectrics and electrical insulation. The workshop will begin with a brief presentation by Professor Tanaka on dielectric polymer ageing phenomena and diagnostics in high voltage engineering for intensive discussion with the participants. Several brief presentations on any topics of dielectrics and electrical insulation will follow later, to be prepared by selected participants for further discussion.

Organised by IEEE DEIS Malaysia Chapter; Co-organised by Institute of High Voltage and High Current, Universiti Teknologi Malaysia; Supported by Malaysian High Voltage Network

*The workshop admission fee includes lunch, workshop notes, and a certificate of participation. The fee is payable to account no. 8602306273, Institut Jurutera Elektrik Dan Elektronik (USA) Cawangan Malaysia, CIMB Bank Berhad. Please register online <https://goo.gl/PpYZRf> before 7th October 2017. All payments should be made before 14th October 2017. For more details, please visit <http://deis.ieeemy.org/> or contact Dr. Lau Kwan Yiew kwanyiew@utm.my