

CIGRE Workshop on Nanodielectrics

Organized by CIGRE WG D1.16 & CIGRE TF D1.16.03
Sponsored by Japan National Committee for CIGRE SC D1

Dear CIGRE Members and ICPADM Participants:

You are cordially invited to attend the CIGRE Workshop on Nanodielectrics to be held in Nagoya, Japan in Sunday afternoon on June 1, 2003. No fee is required.

The newly established CIGRE Task force D1.16.03 has organized the present activity. It is wished that the workshop may be a platform to: Publicize the emergence of a new class of materials and help in their definition, Gather individuals presently contributing or potentially able to contribute to the field, Stir up interest in eliciting the startup of focussed research in this field, Identify the major scientific and technical concerns and challenges, and Outline the potentials and applications of the new class of materials with a focus on electrotechnical domains.

**Date & Time: 1:00pm ~ 5:00pm, Sunday, June 1, 2003 in Nagoya, Japan
(Prior to ICPADM2003)**

Venue: Room Fujino-ma, **Hotel Sunroute Nagoya** (@500m) near Meitetsu New Grand Hotel
2-35-24 Na-eki, Nakamura-ku, Nagoya-shi, 450-0002, Japan
TEL: +81-52-571-2221, FAX: +81-52-571-2235

Presentation 1:00~3:00

Chair: Professor T. Tanaka, Waseda University, Convenor for CIGRE WG D1.16 & TF D1.16.03

- (1) Speaker: M. F. Frechette (15 Minutes Presentation)
Ref: M. F. Frechette, M. Trudeau, H. D. Alamdari and S. Boily, "Introductory Remarks on NanoDielectrics", **2001 Annual Report CEIDP**, (2001) 92-99.
- (2) Speaker: T. Shimizu (15 Minutes Presentation)
Ref: T. Imai, Y. Hirano, H. Hirai, S. Kojima and T. Simizu, "Preparation and Properties of Epoxy-Organically Modified Layered Silicate Nanocomposites", **Conf. Rec. IEEE ISEI 2002**, pp. 379-383 (2002).
- (3) Speaker: L.A. Dissado (15 Minutes Presentation)
Ref: J. K. Nelson, J.C. Fothergill, L.A. Dissado and W. Peasgood, "Toward an Understanding of Nanometric Dielectrics", **2002 Annual Report CEIDP**, (2002) 295-298.
- (4) Speaker: S. Nakamura (15 Minutes Presentation)
Ref: Shuhei NAKAMURA (Mie University) & Takuya Shindou (Suzuka Fuji Xerox Co.) "Dielectric Properties of Composites",
Ref: T. Okamoto, M. Koyama, Y. Inoue, T. Tomimura and S. Nakamura, "Dielectric Property of Composites made with Polyethylene, Boron Nitride and Carbon Black", **2002 Annual Report CEIDP**, (2002) 574-577.
- (5) Speaker: Y. Takezawa (10 Minutes Presentation)
Ref: Y. Takezawa, M. Akatsuka and C. Farren, "High Thermal Conductive Epoxy Resins with Controlled High Order Structure", Paper to be presented at ICPADM2003 Nagoya.
- (6) Speaker: T. Tanaka (10 Minutes)
Ref: M. Kozako, N. Hirai, Y. Ohki, T. Tanaka & T. Okamoto, "PD Degradation of Polyamide Nanocomposites by IEC (b) Electrode" to be presented at National IEEJ Convention 2003

Sendai, March 2003.

(7) Speaker: Yi Yin (10 Minutes Presentation)

Ref: Yi Yin (1), Jiong Chen (1), Demin Tu (2), Rui Yin (3), Hongjin Qian (3), (1) Dept. of Electrical Engineering, Shanghai Jiao Tong University, (2) School of Engineering, Xi'an Jiaotong University, (3) Jiangsu Huapeng Transformer Co., Ltd., "Effect of Space Charge in Nanocomposite of LDPE/TiO₂", Paper to be presented at ICPADM2003 Nagoya.

(30 Minutes for discussion)

Break 3:00~3:30

Invited Talk 3:30~4:00

Professor Y. Chujo, Department of Polymer Chemistry, Kyoto University
"Organic-Inorganic Polymer Hybrids"

Panel Discussion and Forum 4:00~5:00

Animator: Dr. M. Frechette (IREQ)

Panelists: All the Speakers and Lecturer

Please contact:

Dr. Toshikatsu Tanaka, Professor
Convenor for CIGRE WG D1.16
Convenor for CIGRE TF D1.16.03
Graduate School
of Information, Production and System
Waseda University
2-2 Hibikino, Wakamatsu-ku
Kitakyushu-shi, Fukuoka 808-0135
TEL: +81-93-695-3428
FAX: +81-93-695-3424
Email: t-tanaka@waseda.jp

Dr. Michel Frechette
Secretary for CIGRE TF D1.16.03
Hydro-Quebec
1800 boul. Lionel-Boulet
Varenes, Quebec J3X 151
CANADA
TEL: +1-450-652-8216
FAX: +1-450-652-8962
Email: Frechette.Michel@ireq.ca
