

**1st Fraunhofer IZM & NIMS Workshop on
„Nano-technology and Environmental Engineering“**

**November 25th, Friday – November 29th Tuesday
Tsukuba, Japan**



1st Fraunhofer IZM & NIMS Workshop on
„Nano-technology and Environmental Engineering “

Program

November 25th, Friday :

9:45 - 16:35 Workshop

1st Floor, Seminar room1, Main Bldg., Sengen Site, NIMS

http://www.nims.go.jp/eng/nims/office/tsukuba_sengen.html

17:00 - 19:00 Fellowship banquet : Welfare Bldg at NIMS

November 26th, Saturday

10:00 - 15:30 Meeting and visiting Kiuchi Brewery

<http://www.kodawari.cc/>

November 28th, Monday

10:00 - 16:00 Laboratory Tour



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: Fellowship banquet : Welfare Blidg

Program

9:45-10:00 Greeting

Dr. Sukekatsu Ushioda, President of NIMS

10:00-10:30 Introduction of International Center for Materials Nanoarchitectonics

Dr. Yoshio Bandou, Chief Operating Officer ,MANA

10:30-11:00 Overview of Fraunhofer IZM and Environmental & Reliability Engineering

Dr.-Ing. Nils F. Nissen, Director ,Head of Environmental and Reliability Engineering

11:00-11:30 Introduction of Hybrid Unit: Multiscale Hybrid Effects and Some Recent Topics

Prof. Yutaka Kagawa, Managing Director , Hybrid Materials Unit

11:30-13:00 Lunch

13:00-14:00 Nanotechnology Examples in IZM Technology Developments

Dr.-Ing. Nils F. Nissen , Director ,Head of Environmental and Reliability Engineering

14:00-14:30 Introduction of Nano-Electronics Materials Unit

Dr. Toyohiro Chikyow, Managing Director ,Nano-Electronic Materials Unit

14:30-14:50 Coffee break

14:50-15:10 Couple-resonator optical waveguide using self-assembly behavior of micro luminescent balls

Dr. Tadashi Mitsui, Surface Physics and Structure Unit

15:10-15:30 Low temperatures hybrid bonding in ambient air for homo/heterogeneous 3D integration

Dr. Akitsu Shigetou, Hybrid Materials Unit

15:30-15:50 Environmental Aspects and Resource Risks of Nanotechnologies

Dipl.-Ing. Jana Rückschloss ,Researcher

15:50-16:10 Study of interactions between cells and nanomaterials using sensor cells

Dr. Akiyoshi Taniguchi ,Biomaterials Unit

16:10-16:30 Introduction of Learning from Nature Cluster

Dr. Naoe Hosoda, Hybrid Materials Unit

16:30-16:35 Closing

Dipl.-Ing. Hansjörg Griese, Senior Advisor

17:00- Banquet

NIMS Laboratory Tour

Date/time November 28, 2011 (mon) 10:00~16:10

Place National Institute for Materials Science【Namiki and Sengen sites】

Guests Fraunhofer IZM (6 people)

Schedule

9:35~9:40 Move to the Daiwa Hotel in Tsukuba <Minibus>

9:45~9:55 Move to the Namiki Site <Minibus>

10:00~12:00 <MANA Building 4F Seminar Room>

Introduction of NIMS MANA , Doenni Andreas Team Leader (2857)

12:05~13:55 Lunch

14:00~14:30 <MANA Room 205/206>

Combinatorial materials screening for future electronics

Nano-Electronic Materials Unit Toyohiro Chikyo Unit Director (4725)

14:35~15:05 <MANA Room 311,302>

Development of sensor cells for Nanomaterials

MANA Biomaterials Unit Akiyoshi Taniguchi Group Leader (4505)

15:10~15:30 <Clean laboratory Room 101>

Biomimetics, Hybrid Materials Unit Naoe Hosoda Group Leader (4529)

15:35~15:40 Move to Sengen Area <Minibus>

15:45~16:00 <Sengen Labo. Room 434>

Facilities for cutting – edge organic synthesis

Polymer Materials Unit Yuka Kobayashi Principal Researcher (2154)

16:05~16:10 Move to the Daiwa Hotel in Tsukuba <Minibus>

(PR Office Seiichi Muneki (2163))

Access from Narita airport to Tsukuba

By Highway Bus

The easiest way to get to Tsukuba is to take the Airport Liner NATT'S, a shuttle bus service. It departs from bus stop #8 at terminal 1 and bus stop #10 at terminal 2. Tickets are available at Keisei counter, which is located on the 1st floor of each terminal. It takes approximately 100 minutes to Tsukuba center (depends on traffic).

Access Map from Tsukuba center to Hotel

Daiwa Roynet Hotel TSUKUBA

BUS Stop

