JSCM 2005 Annual Meeting Program

October 19-20, 2005
E R U · Osaka Minami-kan, Osaka, Japan

Wednesday
October 19, 2005

Room A
(South Hall on the 5th floor)

9:25  Opening Remarks

Session A (Nano Technologies and Color Materials)

H. Sakai, Chair

9:30  IL-19A01 (Invited Lecture)
Experimental Study on Dispersion/
Flocculation of Pigment Nanoparticles by
Acoustic Spectroscopy
Shin-ichi Takeda, Osaka University

9:50  IL-19A02 (Invited Lecture)
Photocatalysis for Thermocatalysis
Hiroaki Tada, Kinko University

10:10  IL-19A03 (Invited Lecture)
Development of New Color Series for Glittering
Inorganic Pigment “METASHINE®”
Kaoru Ikeda, Nippon Sheet Glass Co., Ltd.

M. Iwasaki, Chair

10:35  19A01
Observation of Initial Surface Decay of
Silicone-Acylic Paints by Lateral Force
Modulation FFM
Yoshinori Kimata1), Akihiro Iida1), Kouji Iida2)
Noriaki Yamada3), 1)Toagosei Co., Ltd., 2)Nagoya
Municipal Industrial Research Institute

10:50  19A02
Preparation and Optical Properties of Two
Dimensional Monolayer of SiO2 or Au@SiO2
Particles
Asami Isoda, Takeshi Kondo, Takeshi Kawai,
Tokyo University of Science

11:05  19A03
Preparation of Noble Metal-titania Core
-shell-type Nanoparticles and Their Optical
Properties
Takashi Kanda, Hiromitsu Shibata, Takahiro Ohkubo,
Hideki Sakai, Masahiko Abe, Tokyo University of
Science

11:20  19A04
Preparation of Mesoporous Titania with Various
Nanostructure
Takamari Sakai, Hirosumi Shibata, Tatsuya Mukaie,
Takai Ohkubo, Asuka Sawamoto, Takahiro Ohkubo,
Masahiko Abe, Tokyo University of Science

General Session

11:35  19A05
Water-repellency and Resin-molding-releasing
Metal Mold Surface Using Triazin Thiols
Hidetoshi Hirahara, Sumio Aisawa, Satoshi
Takahashi, Eiichi Narita, Kunihiro Mori, Iwate
University

11:50  19A06
Study on Mechanical Properties of Coating
Films with Nano Particles (I)
Masahide Kawaraya, Shinichi Ogino, Yoshinori Hara,
Kansai Paint Co., Ltd

12:05  Lunch

H. Iyanagi, Chair

13:05  19A07
Dispersibility of Powder in LLC Structure
Yurie Yamaoka1,2), Chihiro Kaise1), Teruhisa
Kaneko3), Takahiro Ohkubo2), Hideki Sakai2),
Masahiko Abe3), 1)SHU UEMURA INC, 2)Tokyo
University of Science

13:20  19A08
Pigment Dispersion and Rheology of Liquid
 Foundations
Hiroyuki Kanai, Yuko Kikuta, Kao Corp.

13:35  19A09
Synthesis of Novel Surfactant Modified with Cycloamylose and Its Interfacial Properties
Masahiko Abe, Koji Tsuchiya, Pavena Wongtrakul, Hidetoshi Ichige, Kenichi Oyaizu, Makoto Yuasa, Hideki Sakai, Tokyo University of Science
13:50 19A10

Development of Platy BaSO₄ Coated Hybrid Powder Using Shape-control Coating Method
Katsuhiro Yagi, Katsuki Ogawa, Tetsuya Kanemaru, Kyoko Joichi, Naomi Kunizawa, Ruriko Takano, Shiseido Co., Ltd
14:05 19A11

Evolution and Completion of Cosmetics
Jun-ichiro Endo, Tuyoshi Ogihara, Kose Corp.
14:20 19A12

Adsolubilization of Vitamin E by Cationic Surfactants Intercalated into Montmorillonite
Ermi Nakajima, Tomokazu Yoshimura, Kanjiro Torigoe, Kunio Esumi, Tokyo University of Science
14:35 19A13

Preparation of Au/TiO₂, Au/SiO₂ Nanocomposites and Their Catalytic Activity for DPPH Radical Scavenging Reaction
Ryoko Isomno, Kanjiro Torigoe, Tomokazu Yoshimura, Kunio Esumi, Tokyo University of Science
14:50 19A13

K. Tsutsui, Chair

Motegi Memorial Lecture
(15:10~16:10)
“The Feature of Post-fossil Energy Age”
Yoshio Sasaki, Ex-president of Kansai Paint Co., Ltd.

Presentation of JSCM Award and Memorial Lectures
(16:20~17:40)

Reception (on the 7th floor at Osaka Castle Hotel)
(18:00~20:00)

Room B (Room 734 on the 7th floor)

9:10 Opening Remarks

Session C (Base and Application of Functional Dyes)

J. Okabayashi, Chair
9:15 IL-19B01 (Invited Lecture)
Fundamental Properties (Interface Physics of Organic and Metal Layers) and Applications of Organic Light Emitting Diodes

Yoshiaki Sakurai, Technology Research Institute of Osaka Prefecture
9:35 IL-19B02 (Invited Lecture)
Development of Novel Organic Radical Dyes
Shin’ichi Nakatsuji, University of Hyogo
9:55 IL-19B03 (Invited Lecture)
Progress of Ink-jet Inks Using Organic Dyes
Hiromichi Noguchi, Canon Inc
10:25 IL-19B04 (Invited Lecture)
High Resolution Technologies in Ink-jet Printers Using Organic Pigments
Hiroko Hayashi, Epson Co.,
11:00 IL-19B05 (Invited Lecture)
Materials Performance in Ink-jet Textile Printing
Yasuhiro Kawashima, Konica Minolta Inc

11:30 19B01
Synthesis and Properties of Fullerene-Squarylium Dyes for Dye-Sensitized Solar Cell
Taiki Hashimoto, Hiroyuki Nakazumi, Shigeyuki Yagi, Yutaka Hyodo, Osaka Prefecture University
11:45 19B02
Intramolecular Excitation Energy Transfer in Zinc Porphyrin-Anthracene Dyads Bearing a Diarylurea Linkage
Yutaro Ogawa, Masayuki Ezoe, Toru Minami, Shigeyuki Yagi, Hiroyuki Nakazumi, Osaka Prefecture University
12:00 19B03
Research and Development of Functional Natural Colorants
June Okabayashi, Toshio Kashiwagi, Tetsuhiro Isobe, Toyo Ink MFG Co. Ltd.
12:15 Lunch

General Session

Y. Kimata, Chair
13:15 19B04
Discrimination of Dyes from Ink-Jet Printer by Laser Desorption Mass Spectrometry
Tadashi Mukai¹, Masaru Kusatani¹, Sadao Honda⁵, Shin’ichiro Kawabata⁵, Hiroyuki Nakazumiº, ³Nara Prefecture Police, ²Osaka Prefecture University
13:30 19B05
Combinatorial Synthesis of Oxidant Inhibitors for Organic Photoreceptor
Yuji Tanaka, Tomoyuki Shimada, Takaaki Ikekami, Richo Co., Ltd
13:45 19B06
Points for Selecting Parameters to Simulate Radical Polymerization
Tsuigio Kimura
Thursday
October 20, 2005

Room A (South Hall on the 5th floor)

Session B (Environmentally Compliant Technologies and Color Materials)

K. Hashimoto, Chair

9:15  20A01
Curing of Laccol Added Protein Hydrolyzate by Laccase
Nobuyuki Ando¹, Yasusi Ohyabu¹, Kei Tsujimoto², Hiroshi Uyama³, ¹Kyoto Municipal Industrial Research Institute, ²Osaka University

9:30  20A02
Synthesis of New Environmental-Friendly Pigments Based on Cerium Phosphate
Toshiyuki Masui, Shinya Furukawa, Hiroshi Tategaki, Nobuhito Imanaka, Osaka University

9:45  20A03
Development of New Environmental-Friendly Yellow Pigments Based on Amorphous Cerium Tungstate
Shinya Furukawa, Toshiyuki Masui, Nobuhito Imanaka, Osaka University

10:00  20A04
Novel Titanium Dioxide Having Superior Solar Reflectance
Takeshi Asakura, Kenji Yamamoto, TAYCA Corp.

10:15  20A05
The Indoor Environment and Paints
Takashi Saito, Shinto Painto Co., Ltd

10:30  20A06
Solution Means of Problem of Three (Color Physical Properties) in Plastic Recycling
Yasuhiro Suzuki, Suzuka Fuji Xerox Co., Ltd

10:50  IL-20A01
The Relationship between Checking and Rheology Behavior of Water Based Emulsion Paint
Hiroshi Maeda, Shuji Sano, Dainippon Toryo Co., Ltd

11:05  IL-20A02
Deposition Behavior of Zinc Contained in Anticorrosive Pigment onto Metal Surface
Yo-ichiro Suzuki, Hirokazu Fukui, Kazuyo Tsuchiya, Satoru Arita, Uyemura & Co., Ltd

11:20  20A09
Function and Development of 1 Coat Acrylics CED
Katsuhisa Sugisaki, Kansai Paint Co., Ltd

11:35  20A07

11:50  20A08

12:05  20A09

12:20 Lunch
Special Lecture
(13:20~14:20)
“Synthesis of Multi-functional Polymer Particles and Their Applications”
Prof. Masayoshi Okubo, Kobe University

K. Maeda, Chair
14:30  20A10
The Development of Preparing Powder Paint with Fluidized Bed Granulation
Naotoshi Kinoshita1), Hiroyuki Tsujimoto1), Kiyoshi Nogi3), 1)Hosokawa Powder Technology Research Institute, 2)Osaka University
14:45  20A11
Effect Pigment Conversion System in Metallic Colors
Yo-ichi Kawaguchi, Teruyoshi Takahashi, Noritoshi Nakane, Shin Yamanaga, Kansai Paint Co., Ltd
15:00  20A12
Interior Coloring Plan for Medical Facilities—an Example Way-finding on Himeji Red Cross Hospital-
Rika Miyagawa, Kansai Paint Co., Ltd
15:15  20A13
The Structure and Luminous Characterization of Electroluminescence Self Light-emitting Paint
Tomio Hirano, Nippon Paint Co., Ltd
15:30  20A14
Color Measurement under Visible Lightness and Human Eyes Property
Tetsuya Kimura, SUGA Test Instruments Co., Ltd

T. Hirano, Chair
15:50  20A15
Preparation of Hollow Composite Particles Containing Titanium Dioxide Having a High Light Scattering Ability
Masayoshi Okubo, Hirato Minami, Hirotsugu Kawata, Kobe University
16:05  20A16
Effect of Solute Solution Alkaline Metal Ions on Emission Intensity of Green Phosphor LiTbW2O8
Tsutomu Odaki1), Kazuaki Hashimoto2), Yoshitomo Toda3), 1)Fine Rubber R&D Co., Ltd, 2)Chiba Institute of Technology
16:20  20A17
Preparation of Nanometer-sized Y2O3-Eu3+ Particles by NAC-FAS Method
Naoki Yamashita, Mitsunobu Iwasaki, Hiroaki Tada, Seishiro Ito, Kinki University
16:35  20A18
Development of Photocatalytic Antimicrobial Material Based the Double Layered Anodic Oxide Coating of Aluminum
Naoyuki Matsumoto1), Kazuaki Hashimoto1), Yoshitomo Toda1), Matsufumi Takaya1), Seichi Masa3),1)Chiba Institute of Technology, 2)Metal Engineering Corp., 3)Algreen Corp.

16:50  Closing Remarks

Room B (Room 734 on the 7th floor)

General Session

K. Hayashi, Chair
9:15   20B01
Stability Evaluation of Several Kinds of Carbon Dispersion
Tsutomu Ueta, Ryohei Mori, Fuji Pigment Co., Ltd
9:30   20B02
SiO2 Monolayer Overcoating Effect on the Dispersion Stability of TiO2 Particles in Water
Osamu Nishio, Hiroaki Tada, Mitsunobu Iwasaki, Seishiro Ito, Kinki University
9:45   20B03
Preparation of Metal Oxides and Fluorides Multilayer Film Coated on PMMA Particles
Takao Miyamura, Mitsunobu Iwasaki, Hiroaki Tada, Seishiro Ito, Kinki University
10:00  20B04
Preparation of New Interference-colored Pigments by Black Plate-Shaped Titanium Oxide
Kazuaki Yamaguchi1), Kazuaki Hashimoto1), Yoshitomo Toda1), Fukuji Suzuki2), 1)Chiba Institute of Technology, 2)Nipponkouken Kogyou
10:15  20B05
The Process of Titanium Dioxide as a New Luster Powder
Masahiro Hashimoto, Shingo Okubo, Fukuji Suzuki, Nipponkouken Kogyo

T. Ueda, Chair
10:35  20B06
Development of the Dyes for PDP Contrast Improvement
Tetsuo Ozawa, Yukiko Takahashi, Yukinari Haraguchi, Hidekazu Mori, Mitsubishi Chemical Group Science and Technology Research Center Inc.
10:50  20B07
Synthesis and Its Properties of Metal Complexes with Ligand of Quinolinol and Azomethine Dye
Yosuke Takubo, Kozo Kozawa, Yukinori Nagao, Tokyo University of Science
11:05  20B08
Crystal Structure and Properties of Carbazole-Chlorophthal Anhydride Complex Dye and
Azomethine Zinc Chelate Complex Dye
Yukinori Nagao, Naohiro Hasama, Takashi Kaneko,
Kozo Kozawa, Tokyo University of Science
11:20 20B09
Preparation of Composite Vivid Color Particles without Heavy Metal by Organic Yellow
Pigment Coating
Kazuyuki Hayashi, Toshiyuki Toda, Kikuo
Okuyama, Toda Kogyo Vorp., Hiroshima University
11:35 20B10
Pigment Dyeing with Water Based Cationic
Pigment Dispersion
Satoru Sakata, Izumi Tanaka, Chiho Ogawa, Eiichi
Tanaka, SANYO Color Works Ltd
11:50 20B11 Synthesis of Triphenylamine Hole Transfer
Material and Its Properties as a Dye-Sensitized
Solar Cell
Masatoshi Tsuchiya, Kozo Kozawa, Yukinori Nagao,
Tokyo University of Science
12:05 20B12 A Fundamental Study on Photodynamic
Therapy of Cancer Using Alkylidenebenzodi-pyrindoporphyrin
Keiichi Sakamoto, Nippon University
12:20 Lunch
(South Hall on the 5th floor)
Special Lecture
(13:20–14:20)
T. Ozawa, Chair
14:30 20B13 Formation of Organic Pigment Thin Films
Using Asymmetric Surface-active Viologens
Hirotaka Kobayashi, Tetsuo Saji, Tokyo Institute of
Technology
14:45 20B14 Organic Pigment/Ni Composite Plating Using
Surfactant with an Azobenzene Moiety
Yusuke Kowase, Motohiko Shimizu, Tetsuo Saji,
Tokyo Institute of Technology
15:00 20B15 Development of Formaldehyde Indicator
Norihiro Yamaguchi, Hiroshi Inoue, Sakura Color
Products Co.
15:15 20B16 Development of Gas Plasma Sterilization
Indicator for Medical Products
Kyouko Sano, Norihiro Yamaguchi, Hiroshi Inoue,
Sakura Color Products Co.
15:30 20B17 Synthesis and Properties of Dendrimers Having
a Dye Molecule in a Core
Saori Tanaka, Toru Kitaguchi, Kazumasa
Funabiki, Masaki Matsui, Gifu University,
Daicel Chemical Industries, Ltd
15:50 20B18 A. Sakata, Chair
Survey of Sensitizers for Dye-sensitized Solar
Cells (9)
Haruhiko Mase, Kazumasa Funabiki, Jin Ji-Ye,
Tsukasa Yoshida, Hideki Minoura, Masaki Matsui,
Gifu University, Shinshu University
16:05 20B19 MIRACLE K.C.K.- Kneading and Dispersing
Yu-ichi Kusumoto, Asada Tekko Co., Ltd
16:20 20B20 Method of Non-excessive Dispersion Using Bead
Mill
Kaori Harigai, Toshihiro Ishii, Masakatsu Iioka,
Ashizawa Finetec Ltd
16:35 20B21 No Toxic and Non Pollute Foul Release Paint
Makoto Hori, Nakaba Kanou, Kansai paint Co., Ltd
16:50 20B22 Evaluation of Metallic Effects and Paint Film
Characteristics by Using Rotary Bell Atomizers
Maaru Termina, Hiroyuki Aoki, ABB KK, Chiba
University
17:05 Closing Remarks
General Information

Registration Desk
Registration desk of the meeting will be opened from 8:45 to 17:00 on October 19 and 20 on
the 5th floor of ERU · Osaka Minami-kan (2-5-3, Ishimachi, Chuo-ku, Osaka 540-0033, Japan,
Phone (06)-6942-3003), The ERU · Osaka Minami-kan is located at the center of Osaka City.

Registration Fee
Registration fees for nonmember and member are 14,000 yen and 12,000 yen, respectively.
Reception fees for nonmember and member are 12,000 yen and 8,000 yen, respectively.
Payment of the registration fee and reception fee should be made in Japanese yen by cash at
Registration desk.

Transportation
Most convenient route for foreign participants is the direct flight to Osaka (Kansai)
International Airport (KIX), from where a Limousine Bus will take you to the JR Osaka
Station in 60 min or Nankai train will reach Namba station in 30 min. A subway
(Tanimachi-line) from JR Osaka station will take you to Tenmabashi station (near of the
Annual Meeting site). The ERU · Osaka Minami-kan is located near Tenmabashi station.

Meeting Language
The official language of the annual meeting is Japanese.

JSCM 2005 Annual Meeting Committee
Prof. H. Nakazumi (Chair), G. Adachi, T. Umesaki, K. Ide, J. Uchida, M. Okubo, I. Kawaguchi,
M. Kiyono, N. Kuramoto T. Kobayashi, T. Satake, N. Takumi, A. Nakahigashi, K. Hanamura,
K. Matsuura, M. Matsuda, A. Manabe, A. Mizuno, S. Mori, Y. Morimoto, T. Yamane

Foreigners who wish to participate in the JSCM 2005 Annual Meeting are kindly requested to
register on Form A and sending the completed the sheet (Form A) by FAX or E-mail to
the following address by October 12, 2005.

Prof. Hiroyuki Nakazumi
Department of Applied Chemistry
Graduate School of Engineering
Osaka Prefecture University
1-1, Gakuen-cho, Sakai, Osaka 599-8531, Japan
FAX: +81-72-259-3340
E-mail:nakazumi@chem.osakafu-u.ac.jp
Form A: Registration

JSCM 2005 Annual Meeting
October 19~20, 2005, Osaka

Deadline: October 12, 2005
Please type or print:

Name: Prof./Dr./Mr./Ms.________________________

Family Name  First Name  Middle Name

Affiliation: __________________________________________________________

Mailing Address: ______________________________________________________

_________________________ Zip Code:__________ Country:_________________

Phone:____________________ Fax: _____________(Including country & area code)

Name(s) of Accompanying Person(s) (not participating in scientific program):

_________________________________________________________________

REMITTANCE

(i) Registration Fee  14,000 x person(s) ¥ ____________

( Student  7,000 x person(s)) ¥ ____________

(ii) Reception Fee  12,000 x person(s) ¥ ____________

Total Amount  (i) + (ii)  ¥ ____________

PAYMENT (All payment should be made in Japanese yen. No personal checks are accepted.)

I agree to remit the above total fee and will pay in cash.

Date:________________________ Signature:______________________________

Please complete and fax this form by October 12 to:

Prof. Hiroyuki Nakazumi
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