Monday, March 2nd
Special Lectures：25 min (Presentation) + 5 min (Discussion)
General Lectures：10 min (Presentation) + 5 min (Discussion)
Poster Previews：1 min (Presentation), No Discussion

Special Lecture（9：00-9：30）

1S-1 SWCNT Growth on Substrates Studied by a Combinatorial Method
○*Suguru NODA*

General Lecture（9：30-10：30）

Properties of Nanotubes

1-1 Photoluminescence Spectra from SWNTs Encapsulating Water Molecules
○*Shohei Chiashi, Tateki Hanashima, Ryota Mitobe, Yoshikazu Homma*

1-2 Environmental effect on the exciton transition energy of single wall carbon nanotubes
○*Riichiro Saito, Kentaro Sato, Junichiro Shiomi, Shigeo Maruyama*

1-3 Low-Temperature Magneto-Optical Spectroscopy for Single SWNTs
○*Ryusuke Matsunaga, Kazunari Matsuda, Yoshihiko Kanemitsu*

1-4 Optical Properties of Single-Walled Carbon Nanotube in the UV Region
○*Yoshiteru Takagi, Susumu Okada*

Coffee Break （10：30-10：45）

General Lecture（10：45-11：45）

Properties of Nanotubes

1-5 Electronic and Optical Properties of SWCNT Thin Films Deposited on Flexible Substrates by Dry-Process
○*Takeshi Saito, Bikau Shukla, Motoo Yumura, Sumio Iijima*

1-6 Pressure dependence of superconductivity in thin films of boron-doped carbon nantubes
M. Matsudaira, ○*J. Haruyama, J.Nakamura, T. Shimizu,T. Eguchi, T. Nishio, Y. Hasegawa, H. Sano, Y. Iye, J. Reppert, A. M. Rao*

1-7 Current-voltage Property Analysis of Carbon Nanotube at Room Temperature on Substrate
○*Tomohiro TOJO, Tomoko HARA, Yoshitaka MURAMOTO, Takuya YOKOMAE, Takuya HAYASHI, Yoong-Ahm KIM, Morinobu ENDO*

1-8 Electric characterization of CNTs grown in nanosized via interconnects at low temperatures by remote plasma CVD
○*M. Iizuka, K. Ishimaru, D. Yokoyama, T. Iwasaki, I. Yuito, T. Takeuchi, S. Sato, M. Nihei, Y. Awano, H. Kawarada*

Lunch Time（11：45-13：00）

General Lecture（13：00-14：15）

Properties of Nanotubes

1-9 Characterizing thermal conductivity of vertically-aligned single-walled carbon nanotube films
○*Kei Ishikawa, Saburo Tanaka, Koji Miyazaki, Junichiro Shiomi, Shigeo Maruyama*

1-10 Molecular-Dynamics Simulations on Thermal Transport in Peapod and Multi-Walled Carbon Nanotube
○*Fumio Nishimura, Kazuyuki Watanabe, Yamamoto Takahiro*

1-11 Direct Determined Precise Electronic States of Single-Walled Carbon Nanotubes
○*Yasuhiko Tanaka, Yasuhiko Hirana, Naotoshi Nakashima*

1-12 Intrinsic Electron Dipoles in Capped Carbon Nanotubes
○*Minoru Otani, Susumu Okada*

1-13 Hydrogen Adsorption on Carbon Nanotubes under Tensile Strains
○*Takazumi Kawai, Yoshiyuki Miyamoto*

Coffee Break （14：15-14：30）

General Lecture（14：30-15：45）
Applications of Nanotubes

1-14 Observation of Photoinduced Current in Azafullerene $C_{59}N$ Encapsulated Single-Walled Carbon Nanotubes at Low Temperatures
○*Yongfeng Li, Toshiro kaneko, Rikizo Hatakeyama*

1-15 Improvement of the performance of CNT thin-film transistor by using high purity semiconducting SWCNTs
○*Shunjiro Fujii, Takeshi Tanaka, Hehua Jin, Yasumitsu Miyata, Hiroshi Suga, Yasuhisa Naitoh, Takeo Minari, Tetsuhiko Miyadera, Kazuhito Tsukagoshi, Hiromichi Kataura*

1-16 Carbon Nanotube Black Body: Highly Efficient Light Absorber by Vertically Aligned Single Walled Carbon Nanotubes
○*Kohei Mizuno, Juntaro Ishii, Hideo Kishida, Yuhei Hayamizu, Satoshi Yasuda, Don N Futaba, Motoo Yumura, Kenji Hata*

1-17 Evaluation of dispersion state of carbon nanotubes/UV-curable resin nanocomposites by resonance Raman spectroscopy
○*Takahiro Fukumaru, Tsuyohiko Fujigaya, Naotoshi Nakashima*

1-18 NIR-Triggered Volume Phase Transition of Carbon Nanotubes / Polymer Gel Composite
○*Tatsuro Morimoto, Tsuyohiko Fujigaya, Naotoshi Nakashima*

Poster Preview（15：45-16：25）
Poster Session（16：25-17：45）

Properties of Nanotubes

1P-1 Molecular Geometry and Electronic Structure of Single Wall Carbon Nanotube in Non-equilibrium States
Somphob Thompho, Oraphan Saengsawang, Uthumporn Arsawang and ○*Supot Hannongbua*

1P-2 Defect creation and annihilation of Single-Walled Carbon Nanotubes with Scanning Tunneling Microscopy
○*Yuta Ebine, Maxime Berthe, Shoji Yoshida, Atsushi Taninaka, Satoru Suzuki, Koji Sumitomo, Osamu Takeuchi, Hidemi Shigekawa*

1P-3 First principles study of substitutional impurities in carbon nanotubes
○*Takashi Koretsune, Susumu Saito*

1P-4 Constant-Pressure Molecular Dynamics Study of Single-Walled Carbon Nanotubes with a Small Diameter
○*Masahiro Sakurai and Susumu Saito*

1P-5 Microwave plasma CVD synthesis and characterization of boron-doped carbon nanotubes
○*Tohru Watanabe, Yoshikazu Mizuguchi, Shunsuke Tsuda, Takahide Yamaguchi, Yoshihiko Takano*

1P-6 Phase Breaking in Low Temperature Magneto-resistance of Thin Multi-Walled Carbon Nanotubes
○*M. Kida, T. Hatori, Y. Nakamura, Y. Togashi, N. Aoki, J. P. Bird, Y. Ochiai*

1P-7 Temperature dependence of radial breathing modes in double walled carbon nanotubes
○*Hitoshi Kakehi, Ryoji Naito, Noriyuki Hasuike, Kenji Kisoda, Koji Nishio, Toshiyuki Issiki, Hiroshi Harima*

1P-8 Work Function of Single-Walled Carbon Nanotube
○*Koichiro Kato, Susumu Saito*

1P-9 Electrical features of FETs using boron-doped single-walled carbon nanotubes
○*T. Shimizu, J. Haruyama, H. Sano, Y. Iye, T. Eguchi, T. Nishio, Y. Hasegawa, J. Reppert, A. M. Rao*

1P-10 Effects of laser irradiation and thermal oxidation on CoMoCAT nanotubes Probed by Raman spectroscopy
○*Mari Hakamatsuka, Dongchul Kang, Kenichi Kojima, Masaru Tachibana*

1P-11 $C_{60}(OH)_n$ Assisted Dispersion of Single-walled Carbon Nanotubes
○*Yutaka Maeda, Takaaki Kato, Junki Higo, Tadashi Hasegawa, Takahiro Tsuchiya, Takeshi Akasaka, Jing Lu, Shigeru Nagase*

1P-12 Molecular-Dynamics Simulations on Phonon-Assisted Mass Transport in Carbon Nanotubes
○*Takuma Shiga,Toru Takahashi,Eduardo R.Hernandez and Kazuyuki Watanabe*

1P-13 Energy level of defect-induced state in semiconducting single wall carbon nanotube
○*Ken-ichi Sasaki, Katsunori Wakabayashi, Riichiro Saito*

1P-14 Mechanism of Radial Corrugation in Many-Walled Carbon Nanotubes
○*Motohiro Sato, HIroyuki Shima*

1P-15 Electrical Characteristics of Single-Walled Carbon Nanotubes Irradiated with Ionic Liquids in Electrolyte Plasmas
○*Yu Hirotsu, Toshiro Kaneko, Rikizo Hatakeyama*

1P-16 Individually dispersed single-walled carbon nanotubes in both liquid and dried solid states using a new dispersant
○*Tatsuhiro Yamamoto, Masaru Kato*

1P-17 G band resonance Raman spectra of single-wall carbon nanotubes
○*Jin Sung Park, Kenich Sasaki, Riichiro Saito, Gene Dressselhaus, Mildred S. Dresselhaus*

1P-18 Magnetic attractive multiwalled carbon nanotubes formed by high temperature treatment of multiwalled carbon nanotube/boric-oxide composite in hydrogen environment
○*Hiroki Endo, Shunji Bandow, Sumio Iijima*

1P-19 Characterization of CNT-FET by Scanning Gate Microscopy
○*Yuki Okigawa, Shigeru Kishimoto, Yutaka Ohno, Takashi Mizutani*

1P-20 Pressure dependence of Meissner effect in thin films of boron-doped carbon nantubes
○*J.Nakamura, M. Matsudaira, J. Haruyama, T. Shimizu,T. Eguchi, T. Nishio, Y. Hasegawa, H. Sano, Y. Iye, J. Reppert, A. M. Rao*

1P-21 Molecular-Dynamics Simulations on Carbon-Nanotube Phonon Fiber
○*Takahiro Yamamoto, Fumio Nishimura, Toru Takahashi, Kazuyuki Watanabe*

1P-22 Energetics and Electronic Structures of Carbon Nanowires
○*Susumu Okada*

Endohedral Nanotubes

1P-23 A high-resolution laboratory x-ray diffractometer for the bulk structure analysis of nanotubes and peapods
○*Shinobu Aoyagi, Eiji Nishibori, Ryo Kitaura, Hiroshi Sawa, Makoto Sakata and Hisanori Shinohara*

1P-24 Nucleation of an SWNT inside a carbon nanotube
○*Yoshifumi Izu, Junichiro Shiomi and Shigeo Maruyama*

1P-25 First principles calculations of electronic states in SWCNTs encapsulating oxygen molecules
○*Keitaro Harada, Kazuyuki Matsuda, Yutaka Maniwa, Syogo Tejima, Hisashi Nakamura*

1P-26 Dielectric properties of water clusters inside SWCNTs
○*Fuminori Mikmai, Kazuyuki Matuda, Yutaka Maniwa*

1P-27 Scanning Tunneling Microscopy/Spectroscopy on the Electronic Structure of Metallofullerene Peapods $(Gd@C_{82})_n$@SWCNTs
○*Kazunori Ohashi, Yuki Iijima, Naoki Imazu, Ryo Kitaura, Hisanori Shinohara*

1P-28 Fabrication of the air stable n-type single-walled carbon nanotube transistor based on calcium atoms encapsulation
○*Tetsuhiro Shimizu, Toshiaki Kato, Wataru Oohara, Rikizo Hatakeyama*

1P-29 Encapsulation of Room Temperature Ionic Liquid inside Single-Wall Carbon Nanotubes
○*Shimou Chen, Ryo Kitaura, and Hisanori Shinohara*

Carbon nanoparticles

1P-30 Electronic spectra and fragmentation of polyynes in the gas phase
○*Takeshi Yamada, Yoriko Wada, Tomonari Wakabayashi, Koji Okuda, Masa-aki Ubukata*

1P-31 Formation of polyyne-iodine complexes in solutions
○*Yoriko Wada, Tomonari Wakabayashi, Ryoichi Osada, Tatsuhisa Kato*

1P-32 Characterization of La fullerene soot and formation of LaC_2 containing multi-shell carbon nanocapsules by heat treatment
○*Kazunor Yamamoto, Takeshi Akasaka*

1P-33 Formation of Polyhedral Graphite Particles by High-density Carbon Arc Discharge with Alcohol Vapor
○*Yoji Katagiri, Akira Koshio, Fumio Kokai*

Miscellaneous

1P-34 Formation Peculiarities, Structure and Morphology of C_{60}-PANI and C_{60}-PTFE Thin Composite Films
Victor Kazachenko, Tetsu Mieno, ○*Ihar Razanau*

1P-35 New Method of Sidewall Functionalization of SWNT with Fuming Nitric Acid
○*Hiroshi Kitamura, Masaru Sekido, Hisato Takeuchi, Masatomi Ohno*

1P-36 Theoretical Study of Spin Injection from Fe into Oligoacene
○*Yoshitaka Kato, Hiroyuki Fueno, Kazuyoshi Tanaka*

1P-37 Density-functional tight-binding molecular dynamics simulations of the self-capping process in open-ended (n,n) SWCNTs (n=3 to 10)
○*Hironori Hara, Stephan Irle*

1P-38 Synthesis and Search for Superconductivity of Alkaline Earth Graphite Intercalation Compounds
○*Satoshi Heguri, Kimata Nozomu, Mototada Kobayashi*

1P-39 Studies on Ion RF Devices for Ion Mobility Measurement
○*Toshiki Sugai*

1P-40 Growth of One-dimensional Array of Graphitic Cones in Vertically Aligned Carbon Nanofibers
○*Takayuki Yamasaki, Akira Koshio, Yuta Tango, Tomohito Imai, Fumio Kokai*

Tuesday, March 3rd
Special Lectures：25 min (Presentation) + 5 min (Discussion)
General Lectures：10 min (Presentation) + 5 min (Discussion)
Poster Previews：1 min (Presentation), No Discussion

Special Lecture（9：00-9：30）

2S-2 Synthesis and properties of fullerene nanowhiskers and related fullerene nanomaterials
○*Kun'ichi Miyazawa*

General Lecture（9：30-10：30）
Environmental/Safety Characterization of Fullerenes and Endohedral Metallofullerenes

2-1 Examination of the factors affecting in vitro evaluation of cellular responses induced by fullerene C60
○*Masanori Horie, Keiko Nishio, Naohide Shinohara, Haruhisa Kato, Ayako Nakamura, Katsuhide Fujita, Shinichi Kinugasa, Shigehisa Endoh, Hitoshi Iwahashi, Yasukazu Yoshida and Junko Nakanishi*

2-2 Detailed characterization of cellular responses induced by fullerene C60
○*Keiko Nishio, Masanori Horie, Naohide Shinohara, Haruhisa Kato, Ayako Nakamura, Katsuhide Fujita, Shinichi Kunugasa, Shigehisa Endoh, Hitoshi Iwahashi, Yasukazu Yoshida, Junko Nakanishi*

2-3 Structure determination and chemical functionalization of metallofullerene Sc_2C_{82}
○*Hiroki Kurihara, Yuko Yamazaki, Naomi Mizorogi, Midori O. Ishitsuka, Takahiro Tsuchiya, Shigeru Nagase, Takeshi Akasaka*

2-4 Ultraviolet Photoelectron Spectroscopy of $Sc_2C_2@C_{82}$（II）
○*Takafumi Miyazaki,Yuusuke Aoki,Youji Tokumoto,Ryohei Sumii,Haruya Okimoto,Hisashi Umemoto,Yasuhiro Ito,Hisanori Shinohara,Shojun Hino*

Coffee Break （10：30-10：45）

General Lecture（10：45-11：45）
Fullerene solids and Chemistry of Fullerenes

2-5 Energy Level Alignment of Interfaces Related to PCBM: PCBM/Ag Substrate, PCBM/Phthalocyanines
○*Kouki Akaike, Kaname Kanai, Yukio Ouchi, Kazuhiko Seki*

2-6 Geometric curvature effects on Tomonaga-Luttinger states of one-dimensional peanut-shaped C_{60} polymers
○*Hiroyuki Shima, Hideo Yoshioka, Jun Onoe*

2-7 Physical Properties of Hydrogen-molecule Endohedral C_{60}
○*Ryotaro Kumashiro, Takeshi Rachi, Yasujiro Murata, Koichi Komatsu, Hiroshi Sawa, Yoshimitsu Kohama, Hitoshi Kawaji, Tooru Atake, Katsumi Tanigaki*

2-8 A Simple Formation Mechanism of a Fullerene from a Carbon Onion
○*Terihiko Ogata, Yoshio Tatamitani*

Lunch Time（11：45-13：00）

Awards Ceremony（13：00-13：30）

Special Lecture（13：30-14：00）

2S-3 Business Development of Fullerenes in Life Science Applications

○*Shuichi Yamana*

General Lecture（14：00-15：00）
Nanowires

2-9 Formation mechanism of polyyne molecules upon laser ablation of carbon particles in organic solvents
○*Tomonari Wakabayashi, Mao Saikawa, Yoriko Wada*

2-10 Synthesis and Characterization of Crystalline Gold Nanowires encapsulated within Single-Wall Carbon Nanotubes
○*Keita Kobayashi, Ryo Kitaura, Hisanori Shinohara*

2-11 Semimetallic Molecular Nanowire: Oxygen Molecules Encapsulated into Carbon Nanotubes
○*Michiko Tanaka, Takazumi Kawai, Susumu Okada*

2-12 Long Continuous Copper Nanowires Encapsulated in Carbon Nanotubes
○*Akira Koshio, Hironobu Kito, Hiroyuki Nakano, Yuji Fujiwara, Hideki Sato, Fumio Kokai*

Coffee Break （15：00-15：15）

General Lecture（15：15-16：15）
Graphene and Carbon Nanoparticles

2-13 Fabrication and Chemical modification of Nanographene
○*Kazuyuki Takai, Yasuhiro Nishimura, Toshiaki Enoki*

2-14 Half-metallic Armchair Graphene Nanoribbon
○*Keisuke Sawada, Fumiyuki Ishii, Mineo Saito*

2-15 Selective synthesis of carbon nanotubes and graphene multi-layers by controlling catalyst thickness
○*Daiyu Kondo, Shintaro Sato, Mizuhisa Nihei, Yuji Awano*

2-16 Cosequences of multi-pole electrostatic potential fields on the surface of single-nano buckydiamond (SNBD) particles
○*Eiji Osawa, Dean Ho, Houjin Huang, Michail Korobov, Natalia Rozhkova*

Poster Preview（16：15-16：55）
Poster Session（16：55-18：15）

Applications of Nanotubes

2P-1 Application of vertically well-aligned CNT films to capacitors
○*Haruo Kato,Michiko Kusunoki,Shigeyuki Sugimoto,Kunihiro Sugihara,Nobuyuki Yamamoto,Hideki Hujita,Noriyoshi Shibata*

2P-2 Electrochemical Behaviors of Cytochrome c at Carbon Nanotube Surfaces
Masato Tominaga, ○*Hiroyuki Yamaguchi, Shingo Sakamoto, Toshifumi Nishimura, Shiori Kaneko, Isao Taniguchi*

2P-3 Analysis of interfacial behaviors of carbon nanotubes using in-situ Raman spectroelectrochemistry
Masato Tominaga, ○*Shingo Sakamoto, Toshifumi Nishimura, Isao Taniguchi*

2P-4 Diameter-Independent Thermal Oxidation of Single-Walled Carbon Nanotubes with NaCl under Microwave Heating
Yuki Kobayashi, ○*Masahito Sano*

2P-5 Growth of Carbon Nanotubes on Flexible Carbon Fiber Sheet for Field Emitter

○*Bongyong Jang, Yoichi Ito, Yasuhiko Hayashi, Naoki Kishi, Tomoharu Tokunaga, Hidetoshi Matsumoto, Kazuyuki Fukuzono, Masaki Tanemura, Akihiko Tanioka, Gehan A.J. Amaratunga*

2P-6 Direct Growth of Single-walled Carbon Nanotubes Films and Their Opto-electric Properties
○*Huafeng Wang, Kaushik Ghosh, Zhenhua Li, Takahiro Maruyama, Sakae Inoue, Yoshinori Ando*

2P-7 Optical properties of single-wall carbon nanotube-P3HT composites
○*Ye Feng, Yasumitsu Miyata, Kiyoto Matsuishi, Hiromichi Kataura*

2P-8 Ionization Vacuum Gauge with a Carbon Nanotube Field Electron Emitter Combined with a Shield Electrode
○*Huarong Liu, Hitoshi Nakahara, Sashiro Uemura, Yahachi Saito*

2P-9 Dispersion of Single-Walled Carbon Nanotubes Using Poly(amidoamine) Dendrimer Having Alkyl Chain at the Core
○*Ryouta Ikeuchi, Tetsuya Uchida, Tatsuo Fujii, Jun Takada, Yutaka Takaguchi*

2P-10 Field Emission of Carbon Nanotubes for Electron Microscopes
○*Yoshikazu Kusano, Koji Asaka, Hitoshi Nakahara, Yahachi Saito*

2P-11 Fabrication of $CaCO_3$/SWNT Nanocomposite Using Fullerodendron-Assisted Approach
○*Akira Tsutsui, Yutaka Takaguchi*

2P-12 Measurement of Thermal Conductivity of CNT-nanofluids by Transient Short-Wire Method
○*Takeshi Morimatsu, Shogo Moroe, Yasuyuki Takata, Motoo Fujii, Shinzo Suzuki, Masamichi Kohno*

2P-13 Gate voltage dependence of electroluminescence from single-walled carbon nanotubes
○*Norihito Hibino, Hideyuki Maki, Tetsuya Sato, Satoru Suzuki, Yoshihiro Kobayashi*

2P-14 Study on Hydrocarbon Adsorption on MWNTs Using Field Emission Microscopy (FEM)
○*Tetsuya Yamashita, Koji Asaka, Hitoshi Nakahara, Yahachi Saito*

2P-15 Application of Vertically-Aligned SWNT Films to the Counter Electrode of Dye-Sensitized Solar Cells
○*Jun Okawa， Erik Einarsson， Junichiro Shiomi， Shigeo Maruyama*

2P-16 Carbon nanotube growth on atomic force microscope cantilever by using liquid Co catalyst
○*Chien-Chao Chiu, Masamichi Yoshimura, Kazuyuki Ueda*

2P-17 A molecular dynamics study of metal coating on SWNT
○*Teppei Matsuo, Junichiro Shiomi, Shigeo Maruyama*

2P-18 Line-Patterned Carbon Nanotube Cold Cathodes
○*Yosuke Shiratori, Koji Furuichi, Suguru Noda*

2P-19 New electrocatalyst for PEFC based on carbon nanotubes wrapped by polybenzimidazole
Minoru Okamoto, ○*Tsuyohiko Fujigaya, Naotoshi Nakashima*

2P-20 Transparent conducting properties of SWCNT films at a range of thickness
○*Eisuke Haba, Suguru Noda*

2P-21 Defects on Multi-walled Carbon Nanotubes by Cobalt Oxide
○*Do-Hyun Kim, Keiko Waki*

Endohedral Metallofullerenes

2P-22 Third Isomer of $La@C_{82}$

○*Hidenori Kuga, Hidehumi Nikawa, Naomi Mizorogi, Takahiro Tuchiya, Midori Oinuma, Slanina Zdenek, Takeshi Akasaka, Kenji Yoza, Shigeru Nagase*

2P-23 Molecular and Electronic Structures of Di-erbium and Di-erbium-carbide Metallofullerenes $Er_2(C_2)@C_{82}$: Density Functional Theory Calculations
○*Jian Wang, Stephan Irle, Keiji Morokuma*

2P-24 Selective Irradiation of Ionic Heterogeneous Fullerenes Generated by Electron Beam Impact Ionization
○*Yohei Hanabusa, Toshiro Kaneko, Rikizo Hatakeyama, Kennji Omote, Yasuhiko Kasama*

2P-25 Change in Molecular Orientation of Individual $Lu@C_{82}$ on Octanethiol Self Assembled Monolayer Observed by Scanning Tunneling Microscopy
○*Masachika Iwamoto, Yuhsuke Yasutake, Hisashi Umemoto, Yasuhiro Ito, Haruya Okimoto, Noriko Izumi, Hisanori Shinohara, Yutaka Majima*

2P-26 Strorage Condition of Metallofullerene
○*Yosuke Kikuchi, Takuma Ooba, Fuyuko Yamashita, Yasuhiro Takabayashi, Yoshihiro Ono, Kazuhiko Kawachi, Kenji Omote, Yasuhko Kasama, Yoshihiro Kubozono*

Chemistry of Fullerenes

2P-27 Synthesis of Amino Fullerene Derivative and its Application for PA-6 Nanocomposites
○*Masaru Sekido, Katsuma Ohno, Yasuyuki Ohyama, Daisuke Saitou, Susumu Kumagai, Mitsuhiro Takeda, Hiroshi Kitamura, Masatomi Ohno*

2P-28 Ultrasound-Assisted Cycloadditions of [70]Fullerene with Various 2-Azidoethyl per-O-Acetyl
Shinsook Yoon, Sung Ho Hwang, Sung Kyu Hong, ○*Jeong Ho Lee and Weon Bae Ko*

2P-29 Enantiomeric Separation of Fullerodendron Formed by Diastereoselective Diels-Alder Reaction
○*Naoki Tsugawa, Nobuhiro Takahashi, Yutaka Takaguchi*

2P-30 Syntheses,Electrochemical and Photocurrent-Generating Properties of Penta(carbazolyl)[60]fullerene Derivatives
○*Katsumasa Nakahara, Yutaka Matsuo, Eiichi Nakamura*

2P-31 Luminescent and Liquid Crystalline Deca(organo)[60]Fullerenes
○*Chang-Zhi Li, Yutaka Matsuo, Eiichi Nakamura*

2P-32 Fullerene Self-Assembled Monolayer as a Nano Capacitor Switchable by Light
○*Sebastian Lacher, Aiko Sakamoto, Keiko Matsuo, Yutaka Matsuo, Eiichi Nakamura*

2P-33 Fullerene Functionalization through Palladium Catalysis
○*Masakazu Nambo, Susumu Mori, Kenichiro Itami*

Function and Applications of Fullerenes

2P-34 Electron-Transport Property of Fullerene Derivatives $C_{60}X_2$
○*Ken Tokunaga*

2P-35 Preparation of Self-Assembled of α-D-Mannosyl Fullerene[C_{60}] - Gold Nanoparticle Films
Shinsook Yoon, Sung Ho Hwang, ○*Sung Kyu Hong, Jeong Ho Lee, Jung Mi Kim and Weon Bae Ko*

Fullerene Formation, Higher Fullerenes

2P-36 Synthesis and Structural Characterization of Nano-Peapods Encapsulating Higher Fullerenes by High-Resolution TEM
○*Teguh Endah Saraswati, Naoki Imazu, Kazunori Ohashi, Yasuhiro Ito, Ryo Kitaura and Hisanori Shinohara*

2P-37 NMR characterization of cyanopolyynes NC_7H and NC_9H
○*Mao Saikawa, Tomonari Wakabayashi*

2P-38 Production of atomic nitrogen-doped fullerene $N@C_{60}$ by ion bombardment
○*Masahito Kinoshita, Tomonari Wakabayashi*

2P-39 Computational Study on the Stone-Wales Transformation of non-IPR C_{60} Fullerenes
Jun Li, Ting Ren, ○*Xiang Zhao*

2P-40 Laser-merging experiments of C_{60}^- stored in an electrostatic ion storage ring
○*H. Shiromaru, M. Goto, T. Kodama, J. Matsumoto, Y. Achiba,T. Majima, H. Tanuma, T. Azuma, A.E.K. Sunden, K.Hansen*

Wednesday, March 4th
Special Lectures：25 min (Presentation) + 5 min (Discussion)
General Lectures：10 min (Presentation) + 5 min (Discussion)
Poster Previews：1 min (Presentation), No Discussion

Special Lecture（9：00-9：30）

3S-4 Creation of Fullerene- and Carbon Nanotube-Based Artificial Photosynthetic Systems
○*Hiroshi Imahori*

General Lecture（9：30-10：30）
Formation and Purification of Nanotubes

3-1 Chirality Sorting of Single-Walled Carbon Nanotubes Using Density Gradients Centrifugation
○*Yuichi Kato, Yasuro Niidome, Naotoshi Nakashima*

3-2 Diameter and Chirality Distribution of SWNTs Grown from Zeolite Surfaces
○*Yoichi Murakami, Takahiko Moteki, Suguru Noda, Tatsuya Okubo, Shigeo Maruyama*

3-3 Highly selective production of single-wall carbon nanotubes by laser vaporization method
○*Yohji Achiba, Takashi Nakayama, Akihito Inoue, Yuki Onishi, Takeshi Kodama, Toshiya Okazaki*

3-4 Impact of Molecular Structure of Carbon Source in CVD Growth of SWCNTs
○*Bikau Shukla, Takeshi Saito, Motoo Yumura, Sumio Iijima*

Coffee Break （10：30-10：45）

Special Lecture（10:45-11:15）

3S-5 Biological Reaction of Nanotubes and Nanoparticles : Functions and Risk Assessment
○*Fumio Watari*

General Lecture（11：15-12：30）
Formation and Purification of Nanotubes

3-5 Patterned Growth of Vertically Aligned SWNTs through Liquid-based Catalyst Manipulation
○*Rong Xiang, Erik Einarsson, Junichiro Shiomi, Shigeo Maruyama*

3-6 Top-Down Approach to Align Single-Walled Carbon Nanotubes on Silicon Substrate
○*Carlo M. Orofeo, Hiroki Ago, Naoki Yoshihara, Masaharu Tsuji*

3-7 Fluidized Bed Synthesis of Sub-Millimeter-Long Single-Walled Carbon Nanotubes
○*Dong Young Kim, Hirofumi Fukai, Hisashi Sugime, Kei Hasegawa, Toshio Osawa, Suguru Noda*

3-8 Purity Evaluation of Single Wall Carbon Nanotubes based on Raman Spectroscopy
○*Daisuke Nishide, Yasumitsu Miyata, Kazuhiro Yanagi, Takeshi Tanaka, Hiromichi Kataura*

3-9 *Ab Initio* Energetics of Sodium Dodecyl Sulfate on Metallic and Semiconducting Single-Wall Carbon Nanotubes
○*Mari Ohfuchi*

Lunch Time（12：30-13：45）

Special Lecture（13：45-14：15）

3S-6 Application of carbon nanohorns to anti-cancer drug carriers
○*Masako Yudasaka*

Poster Preview（14：15-14：55）
Poster Session（14：55-16：15）

Formation and Purification of Nanotubes

3P-1 Si Doping into Densely-Aligned Carbon Nanotube Films on SiC
○*Takehiro Maruyama, Kenta Yoshida, Wataru Norimatsu, Michiko Kusunoki*

3P-2 Optical spectroscopic characterization of vertically aligned single-walled carbon nanotubes
○*Erik Einarsson, Rong Xiang, Theerapol Thurakitseree, Zhengyi Zhang, Yoichi Murakami, Junichiro Shiomi, Shigeo Maruyama*

3P-3 Low Temperature Growth of Single-Walled Carbon Nanotubes by High Vacuum ACCVD Method
○*Yohei Yamamoto, Hiroto Okabe, Taiki Inoue, Erik Einarsson, Makoto Watanabe, Shigeo Maruyama*

3P-4 Selective Isolation of (6,5) Carbon Nanotubes by Density Gradient Ultracentrifugation
○*Pei Zhao, Yoichi Murakami, Rong Xiang, Erik Einarsson, Junichiro Shiomi, Shigeo Maruyama*

3P-5 Laser Fluence Effect on the Chirality Characteristics of Individually Dispersed Single-walled Carbon Nanotube in Aqueous Solution with Pulsed OPO Laser Irradiation
○*Isamu Tajima, Akira Kumazawa, Katsumi Uchida, Tadahiro Ishii, Hirofumi Yajima*

3P-6 Low temperature growth of carbon nanotubes from acetylene
○*Takashi Shirai, Suguru Noda*

3P-7 Progress in Separation of Metallic and Semiconducting Carbon Nanotubes Using Agarose Gel
○*Takeshi Tanaka, Hehua Jin, Yasumitsu Miyata, Shunjiro Fujii, Hiroshi Suga, Yasuhisa Naitoh, Takeo Minari, Tetsuhiko Miyadera, Kazuhito Tsukagoshi, Hiromichi Kataura*

3P-8 Influence of laser power on the formation of SWNTs by laser ablation
○*Masaomi Teshiba, Tomonari Wakabayashi*

3P-9 Synthesis of Thin Carbon Nanocoils by Fe-Sn Catalyst Supported on Zeolite
○*Masashi Yokota, Yoshiyuki Suda, Shinichiro Oke, Hirofumi Takikawa, Youhei Fujumura, Tatsuo Yamaura, Shigeo Ito, Hitoshi Ue, Masakatsu Morioki*

3P-10 Chirality Selective Separation for Single-walled Carbon Nanotube with Density Gradient Ultracentrifugation
○*Yoshiya Kaminosono, Katumi Uchida, Ishii Tadahiro, Yajima Hirofumi*

3P-11 Effect of water vapor on structure of single-walled carbon nanotubes
○*Naoki Yoshihara, Hiroki Ago, Masaharu Tsuji*

3P-12 Dip-pen nanolithography for CNTs patterning
○*Naoko Kayumi, Tsuyohiko Fujigaya, Naotoshi Nakashima*

3P-13 TiC formation for metal contact with carbon composite structures consisting of nanotubes and graphene multi-layers
○*Daiyu Kondo, Shintaro Sato, Mizuhisa Nihei, Eiji Ikenaga, Masaaki Kobata, Jung Jin Kim, Keisuke Kobayashi, Yuji Awano*

3P-14 Theoretical Study on the Growth of Single Walled Carbon Nanotube (SWNT)
Jingshuang Dang, Weiwei Wang, ○*Xiang Zhao*

3P-15 Analysis of Fe Catalyst Behavior on Al/SiO_2/Si Substrate for CNT Growth Using Mössbauer Spectroscopy
○*Hisayoshi Oshima, Tomohiro Shimazu, Milan Siry, Ko Mibu*

3P-16 Diameter control of single-walled carbon nanotubes grown by diffusion plasma CVD
○*Shunsuke Kuroda, Toshiaki Kato, Toshiro Kaneko, Rikizo Hatakeyama*

3P-17 Comparison of thermal and plasma CVD for the growth of single-walled carbon nanotubes from nonmagnetic nanoparticles
○*Zohreh Ghorannevis, Toshiaki Kato, Toshiro Kaneko, Rikizo Hatakeyama*

3P-18 Effect of Al Oxide Buffer Layer on SWNT Growth at Low Temperature in Alcohol Gas Source Method in High Vacuum
○*Yoshihiro Mizutani, Kuninori Sato, Takahiro Maruyama, Shigeya Naritsuka*

3P-19 Synthesis of DWNTs using arc discharge by adjusting gas pressure
○*K. Kato， H. Wang， X. Zhao， S. Inoue and Y. Ando*

3P-20 Purification of Single-walled Carbon Nanotubes Generated with Arc-burning Apparatus by Utilizing Mono-dispersion Technique
○*Shinzo Suzuki, Kazuto Hara, Takuya Fujita, Takashi Mizusawa, Toshiya Okazaki, Yohji Achiba*

3P-21 Measurement of Cohesion Process of Carbon-Clusters by the Mie-Scattering Method in Gravity-free Arc-Synthesis of Nanotubes
○*Tetsu Mieno, Tan Guodong, Shu Usuba, Kazunori Koga, Masaharu Shiratani*

Graphene

3P-22 Open and Closed Edges of Graphene Layers
○*Zheng Liu, Kazu Suenaga, Peter J. F. Harris, Sumio Iijima*

3P-23 New Carbon Thin Film Growth on YSZ (111) by Very High Temperature Surface Pyrolysis of C_{60}
○*Takuya Noguchi, Toshihiro Shimada, Akinori Hanzawa, Tetsuya Hasegawa*

3P-24 Temperature dependence of Raman spectra in epitaxial few-layer graphene on vicinal 6H-SiC
○*Ryoji Naito, Susumu Kamoi, Hitoshi Kakehi, Noriyuki Hasuike, Kenji Kisoda, Hiroshi Harima, Kouhei Morita, Satoru Tanaka, Akihiro Hashimoto*

3P-25 Probing graphene-metal contacts in bilayer graphene nanoconstriction
○*Y. Ujiie, S. Motooka, T. Morimoto, D. K. Ferry, J. P. Bird, Y. Ochiai*

3P-26 Edge States of ZigZag Boron Nitride Nanoribbons
○*Fawei Zheng, Ken-ichi Sasaki, Riichiro Saito， Wenhui Duan and Bing-Lin Gu*

3P-27 Edge phonon of nano-graphite ribbons
○*Masaru Furukawa , Zheng Fawei, Riichiro Saito*

3P-28 Ultra-fast structural change of graphite surface by pulse laser irradiation: A time-dependent first-principles approach
○*Yoshiyuki Miyamoto*

Nanohorns

3P-29 Detailed Structure Analysis of Carbon Nanohorns
Michiko Irie, Ryota Yuge, Sumio Iijima, ○*Masako Yudasaka*

3P-30 Isolating Individual Single-Wall Carbon Nanohorns From Their Aggregate
○*Minfang Zhang, Sumio Iijima, Masako Yudasaka*

3P-31 Plugs Formed by Hydrogen Peroxide Treatment at Holes of Carbon Nanohorns
○*Jianxun Xu, Minfang Zhang, Sumio Iijima, Masako Yudasaka*

Fullerene Solids

3P-32 Epitaxial growth and electronic characterization of Mg-doped C_{60}
○*Masato Natori, Nobuaki Kojima, Hidetoshi Suzuki, Masafumi Yamaguchi*

3P-33 Pressure-Induced Structural Phase Transition of Solid C_{60}
○*Yuichiro Yamagami, Susumu Saito*

3P-34 Electronic transport properties of photo-irradiated C_{60}
○*Y.Chiba, H.Tsuji, M.Ueno, Shih-Ren Chen, N.Aoki, and Y.Ochiai*

3P-35 Assembling behaviors of [70]fullerene on addition of aliphatic amines
○*Ken-ichi Matsuoka, Tsuyoshi Akiyama, Sunao Yamada*

3P-36 Length growth measurement of C_{60} fullerene nanowhiskers
○*Kayoko Hotta, Kunichi Miyazawa*

3P-37 Internalization of Fullerene Nanowhiskers by PMA-treated THP-1 Cells
○*Shin-ichi Nudejima, Kun'ichi Miyazawa, Junko Okuda-Shimazaki and Akiyoshi Taniguchi*

3P-38 Water-Dispersible Fullerene Whisker
○*Yasuhiko Fujita, Yutaka Takaguchi*

3P-39 Transmission Electron Microscopy Observation of Cross-Sectional Structure of C_{60} Nanofibers
○*Ryoei Kato, Kun'ichi Miyazawa*

3P-40 Insulating behavior of Cs_3C_{60} at ambient pressure as probed by optical reflectivity measurements
○*Takumi Takano, Alexey Y. Ganin, Yasuhiro Takabayashi, Matthew J. Rosseinsky, Kosmas Prassides, Yoshihiro Iwasa*