

**March 6th, Tue.**

- Plenary Lecture: 40min (Presentation) + 5min (Discussion)**  
**Special Lecture: 25min (Presentation) + 5min (Discussion)**  
**General Lecture: 10min (Presentation) + 5min (Discussion)**  
**Poster Preview: 1min (Presentation)**

**Plenary Lecture (9:30–10:15)**

- 1S-1 Double Walled Carbon Nanotubes  
Morinobu Endo

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**General Lecture (10:15–10:45)**

**Properties of Nanotubes**

- 1-1 Temperature sensitive optical absorption of SDS-wrapped SWCNT aqueous solution:  
correlation with chirality sorting 7  
○Huaping LIU, Yasuko Urabe, Takeshi Tanaka, Hiromichi Kataura
- 1-2 Energetics and Electronic Structures of Amino Acid Residues Adsorbed on Carbon Nanotubes 8  
○Katsumasa Kamiya, Susumu Okada

>>>>> Coffee Break (10:45–11:00) <<<<<<

**General Lecture (11:00–12:00)**

**Properties of Nanotubes**

- 1-3 Observation of positive- and negative-charged excitons in the electrochemically doped single-walled carbon nanotubes 9  
○Jin Sung Park, Kazunari Matsuda, Shinichiro Mouri, Yuhei Miyauchi, Naotoshi Nakashima
- 1-4 Suppression of Exciton-Electron Scattering in Doped Single-Walled Carbon Nanotubes 10  
○Satoru Konabe, Kazunari Matsuda, Susumu Okada
- 1-5 Exciton Relaxation to A Trion State in Hole-Doped (6,5) SWNTs 11  
○Satoru Shimizu, Takeshi Koyama, Yasumitsu Miyata, Hisanori Shinohara, and Arao Nakamura
- 1-6 Photoluminescence from Exciton State in Metallic SWNTs 12  
Satoru Shimizu, ○Takeshi Koyama, Takeshi Saito, Yasumitsu Miyata, Hisanori Shinohara, and Arao Nakamura

>>>>>> Lunch Time (12:00–13:15) <<<<<<

**General Lecture (13:15–14:00)**

**Formation and Purification of Nanotubes**

- 1-7 The World of CNT Forests 13  
○Don N. Futaba, Shunsuke Sakurai, Kazufumi Kobashi, Ming Xu, Takeo Yamada, Yasuaki Seki, Motoo Yumura, and Kenji Hata
- 1-8 Two-stage growth process of single-walled carbon nanotubes revealed by laser vaporization 14  
○Yohji Achiba, Akihito Inoue, Takuya Kodama, Ami Kaneko, Kenro Hashimoto, Takeshi Kodama, Toshiya Okazaki
- 1-9 Alignment Control of Carbon Nanotube Forests from Random to Nearly Perfectly Aligned by Utilizing Crowding Effect 15  
○Ming Xu, Don N. Futaba, Motoo Yumura, Kenji Hata

**Special Lecture (14:00–14:30)**

- 1S-2 Mass production and applications of MWCNT  
Daisuke Miyamoto

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March 6th, Tue.

>>>>> Coffee Break (14:30–14:45) <<<<<<

**General Lecture (14:45–15:45)**

**Formation and Purification of Nanotubes • Applications of Nanotubes**

- |      |   |    |
|------|---|----|
| 1–10 | A generalized approach to achieve highly conductive CNT/elastomers based on solubility parameters<br>○Seisuke Ata, Takaaki Mizuno, Kazufumi Kobashi, Takeo Yamada, Motoo Yumura, Kenji Hata   | 16 |
| 1–11 | CVD synthesis of small-diameter nitrogen-doped single-walled carbon nanotubes using acetonitrile<br>○Erik Einarsson, Theerapol Thurakitseree, Christian Kramberger, Pei Zhao, Shinya Aikawa, S. Harish, Shohei Chiashi, and Shigeo Maruyama | 17 |
| 1–12 | Catalyst control for the preferential growth of semiconducting single-walled carbon nanotubes<br>○Shunsuke Sakurai, Maho Yamada, Hiroko Nakamura, Don Futaba, Kenji Hata  | 18 |
| 1–13 | Future extraction analysis of conductive paths in the thin film of self-assembled single-wall carbon nanotubes<br>○Shigekazu Ohmori, Takeshi Saito, Motoo Yumura, Sumio Iijima  | 19 |

**Poster Preview (15:45–16:30)**

**Poster Session (16:30–18:00) (★) Candidates for the Young Scientist Poster Award  
Chemistry of Fullerenes**

- |      |   |    |
|------|---|----|
| 1P–1 | Selective synthesis of aziridinofullerene through an acid-promoted denitro-genation of triazolinofullerene<br>Tsubasa Mikie, ○Naohiko Ikuma, Koji Nakagawa, Ken Kokubo, Takumi Oshima | 45 |
| 1P–2 | Characterization of 56π-Fullerenes —Separation of Regiosomeric Mixtures—<br>○Hiroshi Inada, Yutaka Matsuo   | 46 |

**Applications of Fullerenes**

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| 1P–3 | Stable colloidal dispersion of indolino[60]fullerene in water and photocurrent characteristics of the film fabricated by electrospray deposition method<br>○Hiroshi Matsutaka, Yasuo Shigemitsu, Takaaki Orii, Tetsuya Aoyama, Hideaki Takaku, Yusuke Tajima | 47 |
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**Fullerene Solids**

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| 1P–4 | Electronic and Geometric Structures of C <sub>32</sub> : New Semiconducting Form of sp <sup>2</sup> and sp <sup>3</sup> Hybrid C Network<br>★ ○Mina Maruyama, Susumu Okada | 48 |
| 1P–5 | Raman spectra analyses of fullerene nanowiskers polymerized in various environments<br>○Ryoei Kato, Kun'ichi Miyazawa  | 49 |

**Endohedral Metallofullerenes**

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| 1P–6 | New Functionalization of Endohedral Metallofullerene with Silylene<br>○Kumiko Sato, Masahiro Kako, Mitsuaki Suzuki, Naomi Mizorogi, Takahiro Tsuchiya, Takeshi Akasaka, Shigeru Nagase                               | 50 |
| 1P–7 | ESR spectra of La <sub>2</sub> @C <sub>80</sub> –C <sub>3</sub> N <sub>3</sub> Ph <sub>2</sub> and La <sub>2</sub> @C <sub>80</sub> anion<br>○Toshihiro Aizawa, Takeshi Akasaka, Hiroki Kurihara, and Tatsuhisa Kato | 51 |
| 1P–8 | Synthesis and Characterization of Li@C <sub>60</sub> (OH) <sub>n</sub> : Notable Behaviors Induced by External Hydroxyl Group<br>★ ○Hiroshi Ueno, Yuji Nakamura, Ken Kokubo, Takumi Oshima                           | 52 |

**Formation and Purification of Nanotubes**

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| 1P–9 | High-throughput metal/semiconductor separation of single-wall carbon nanotubes using gel column chromatography<br>○Satoshi Asano, Takeshi Tanaka, Hiromichi Kataura | 53 |
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### Properties of Nanotubes

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### Applications of Nanotubes

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### Endohedral Nanotubes

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**Carbon Nanoparticles**

- 1P-42 Geometries and Electronic Structures of Diamond Nanoparticles 86  
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**Nanohorns**

- 1P-43 Cytotoxicity of Carbon Nanohorns Depending on their Dispersion State 87  
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**Miscellaneous**

- 1P-44 Influence of Graphitization Treatment of Carbon Nanocoils on Tensile Deformation Characteristics 88  
    ★ ○ *Taiichiro Yonemura, Yoshiyuki Suda, Hideto Tanoue, Hirofumi Takikawa, Hitoshi Ue,  
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- 1P-45 Hybrid Periodic Nano-ridges: Novel Structures and Properties 89  
    ○ *Rui-Sheng Zhao, Jing-Shuang Dang, Xiang Zhao*

March 7th, Wed.

**Special Lecture: 25min (Presentation) + 5min (Discussion)**  
**General Lecture: 10min (Presentation) + 5min (Discussion)**  
**Poster Preview: 1min (Presentation)**

**General Lecture (9:30–10:30)**

**Endohedral Metallofullerenes • Chemistry of Fullerenes**

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	○Xing Lu, Hiroki Kurihara, Koji Nakajima, Yuko Iiduka, Naomi Mizorogi, Takeshi Akasaka, Shigeru Nagase	
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	○Yuki Sado, Shinobu Aoyagi, Eiji Nishibori, Yasumitsu Miyata, Ryo Kitaura, Hiroshi Sawa, Hisanori Shinohara	
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	○Takafumi Miyazaki, Yusuke Nakanishi, Tatsuhiko Nishi, Sousuke Ookita, Hajime Yagi, Hisanori Shinohara and Shojun Hino	
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	○Tohru Sato, Naoya Iwahara, Naoki Haruta, Kazuyoshi Tanaka	

>>>>> Coffee Break (10:30–10:45) <<<<<<

**Special Lecture (10:45–11:15)**

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**General Lecture (11:15–12:00)**

**Fullerene Solids • Applications of Fullerenes**

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2-6	Synthesis of the C <sub>60</sub> nanowiskers that exhibited a good superconductivity	25
	○Kun'ichi Miyazawa, Ryoei Kato, Hiroyuki Takeya, Takahide Yamaguchi, Yoshihiko Takano	
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	○Hiroyuki Takeya, Ryoei Kato, Kun'ichi Miyazawa, Takahide Yamaguchi, Yoshihiko Takano	

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**Awards Ceremony (13:15–14:00)**

**Special Lecture (14:00–14:30)**

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	Nobutsugu Minami	

>>>>> Coffee Break (14:30–14:45) <<<<<<

**General Lecture (14:45–15:45)**

**Applications of Nanotubes • Properties of Nanotubes**

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2-10	Fully Inkjet-Printed Transistors Based on Separated Single-Walled Carbon Nanotubes <i>Satoki Matsuzaki, Yohei Yomogida, Kazuhiro Yanagi, Yoshihiro Iwasa and Taishi Takenobu</i>	29
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### Poster Preview (15:45–16:30)

### Poster Session (16:30–18:00) (★) Candidates for the Young Scientist Poster Award Chemistry of Fullerenes

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### Applications of Fullerenes

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### Fullerene Solids

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### Endohedral Metallofullerenes

2P-6	The Li <sup>+</sup> @C <sub>60</sub> functionalization —Synthesis of Li@PCBM cations <i>Hiroshi Okada, Masashi Maruyama, Yasuhiko Kasama, Hiromi Tobita, Yutaka Matsuo</i>	95
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### Formation and Purification of Nanotubes

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### Properties of Nanotubes

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**March 8th, Thu.**

**Special Lecture: 25min (Presentation) + 5min (Discussion)**  
**General Lecture: 10min (Presentation) + 5min (Discussion)**  
**Poster Preview: 1min (Presentation)**

**General Lecture (9:30–10:45)**

**Graphene**

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Kaoru Narita

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