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NT03 program sheet (2003. 7. 7. ~ 11)

€ July 6 (Sunday)

18:00 ~ 21:00 reception : Hoam Faculty House

€ July 7 (Monday)

- Opening ceremony (8:50 ~ 9:00)

Opening address : Jisoon Ihm (SNU)

Welcoming address : Hee-Gook Lee (Nano Technology Research Association)

- Plenary session

09:00 ~ 09:40 K 1 : ^Carbon nanotube electronics and optoelectronics^ ,
Phaedon Avouris (T. J. Watson Research Center, USA)

09:40 ~ 10:10 I 1 : ^Mesoscopic thermoelectric power measurement of single
walled nanotubes^ , Philip Kim (Department of Physics,
Columbia University).

10:10 ~ 10:30 : coffee break

- Session MI

10:30 ~ 11:00 I 2 : "Aligned Carbon Nanotubes for Field Emission, 2D Photonic
Band Gap Crystals", and Nanoelectrodes, Z. F. Ren (Boston
College, USA).

11:00 ~ 11:30 I 3 : "The Large-Scale Production of Sp²-based Fibrous Carbons
and Their Applications", Morinobu Endo (Shinshu
University, Japan).

11:30 ~ 12:00 I 4 : "Bundles and foils of WS₂ nanotubes", R.Tenne
(Weizmann Institute of Science, Israel).

12:00 ~ 14:00 : lunch break

14:00 ~ 14:15 O 1 : "Use of Self-Regulated Arc Discharge in Hydrocarbon
Liquids for Bulk Production of Carbon Nanotubes", Vladislav
A. Ryzhkov (Rosseter Holdings Ltd., Cyprus).

14:15 ~ 14:30 O 2 : "Direct synthesis of high-purity single-walled carbon
nanotube mat on silicon and quartz substrates and their
applications", Yoichi Murakami, Yuhei Miyauchi, Shohei

Chiashi and Shigeo Maruyama (The University of Tokyo, Japan).

- 14:30 ~ 14:45 O 3 : "In-situ Study of iron catalysts for carbon nanotube growth using X-ray diffraction", N.Okazaki¹, K.Nishimura², L. Pan^{1,2}, and Y. Nakayama^{1,2} (¹Japan Science and Technology corporation, Japan. ²Osaka Prefecture University, Japan).
- 14:45 ~ 15:00 O 4 : "The growth and architecture of single-walled carbon nanotubes on patterned silicon substrates", Y. Homma¹, Y. Kobayashi¹, D.Takagi², T. Ogino³, Y. Jung⁴, P. M. Ajayan⁴, P. Finnie⁵ and J. Lefebvre⁵ (¹NTT Basic Research Laboratories, Japan ²Meiji University, Japan ³Dept. of Electrical and Computer Engineering Yokohama National University, Japan ⁴Rensselaer Polytechnic Institute, USA ⁵National Research Council, Canada).
- 15:00 ~ 18:30 P 2 : "Fabrication of Field Emitter Arrays using Carbon Nanotubes Aligned on Various Substrates by Self-Assembly Monolayer Technique", Ok-Joo Lee¹, Soo-Hwan Jeong² and Kun-Hong Lee² (¹Pohang University of Science and Technology, Korea ²Samsung Advanced Institute of Technology, Korea).
- P 4 : "Quantum multiwalled carbon nanotubes and macroscopic oriented web of single-wall carbon nanotubes", Yoshinori Ando and Xinluo Zhao (Meijo University, Japan).
- P 5 : "Structure control of nitrogen induced carbon nanotubes by microwave plasma enhanced chemical vapor deposition", Yun Hee Kim, Ji Hoon Yang, Young Jin Lee, Yong Sook Shin, Byung Ho Ha, Serng-Yerl Park, Hyun Suk Kim, Chong-Yun Park (Sungkyunkwan University, Korea).
- P 6 : "Synthesis and characterization of single-wall carbon nanotubes by hot-filament assisted chemical vapor deposition", Toshiya Okazaki¹ and Hisanori Shinohara^{1,2} (¹Nagoya University, Japan ²CREST, JST, Japan).
- P 7 : "New Building Blocks using Polymer-grafted-Single-Wall Carbon Nanotubes", Young Koan Ko, Dae Hwan Jung, Hee-Tae Jung (Korea Advanced Institute of Science and Technology, Korea).
- P 8 : "Boron nitride nanostructures as oxygen, nitrogen and hydrogen accumulators, and generators", Dmitri Golberg, Yoshio Bando, Keita Fushimi, Cheng-Chun Tang, Ren-Zhi Ma (National Institute for Materials Science, Japan).
- P 9 : "Ball Milling Assisted Growth of Aligned Carbon Nanotubes", Ying Chen and Lewis T Chadderton (The Australian National University Canberra, Australia)
- P 10: "Continuous Process of Single-Walled Carbon Nanotubes Synthesis by Non-Transferred Thermal Plasma Torch", Shin Il Choi, Jun Seok Nam, Jun Ho Seo, Tae Hyoung Hwang, Soo Seok Choi, and Sang Hee Hong (Seoul National University, Korea).

- P 11: "Patterned growth of single-wall carbon nanotubes using acetylene by chemical vapour deposition", R. G. Lacerda¹, A. S. Teh¹, M. H. Yang¹, N. L. Rupesinghe¹, K. B. K. Teo¹, M. Chhowalla², K. Koziol³, D. G. Hasko⁴, G. A. J. Amaratunga¹ and W. I. Milne¹ (¹Engineering Department, University of Cambridge, UK ²Rutgers University, USA ³University of Cambridge, UK ⁴Microelectronics Research Centre, University of Cambridge, UK).
- P 12: "Control of anodized aluminum oxide nano-templates and metal filling in the pores", W. S. Im, K. C. Cho, Y. S. Cho, G. S. Choi and D. J. Kim (Chungnam National University, Korea).
- P 14: "Carbon nanotube synthesis on AAO membrane using magnetic fluids as a catalyst", I. K. Song, Y. S. Cho, K. S. Choi, and D. J. Kim (Chungnam National University, Korea).
- P 15: "De-bundling SWNTs without the Use of Long-Chain Surfactants ~ The Influence of the Purification Process", Un Jeong Kim, Clascidia A. Furtado, Gugang Chen, Babhendra K. Pradhan, Ling Pan, Elizabeth Dickey, Peter C. Eklund (The Pennsylvania State University, USA).
- P 16: "Efficient single-walled carbon nanotube synthesis through laser excitation of the vaporization plasma", Kingston, S. Denommee, B. Simard (National Research Council Canada, Canada).
- P 17: "Flame synthesis of carbon nanotubes and nanofibers on a substrate using a nickel nitrate", Gyo Woo Lee, Jongsoo Jung, and Jungho Hwang (Yonsei University, Korea).
- P 18: "The nanotube as an autoclave: Simulating reactions of fullerenes and diamondoids", Mina Yoon¹, Gregory McIntosh, Seungwu Han², Savas Berber¹, Eiji Osawa³, and David Tomanek¹ (¹Michigan State University, USA ²Princeton University, USA ³NanoCarbon Res. Inst., USA).
- P 19: "Narrow diameter distribution of singlewalled carbon nanotubes grown on Ni-MgO by thermal chemical vapor deposition", H. J. Jeong¹, K. H. An¹, S. C. Lim¹, M. S. Park², J. S. Chang², S. E. Park², H. K. Kang³, C. W. Yang³, and Y. H. Lee¹ (¹Sungkyunkwan University, Korea ²Korea Research Institute of Chemical Technology, Korea ³Sungkyunkwan University, Korea).
- P 20: "Hydrogen Influence on SWNTs Synthesis by CVD Method", Guoqing Ning, Qixiang Wang, Fei Wei (Department of Chemical Engineering, Tsinghua University, China).
- P 21: "Synthesis of Silicon Nanotubes on Porous Alumina Using Molecular Beam Epitaxy", S. Y. Jeong¹, J. Y. Kim², H. D. Yang², B. N. Yoon³, S. -H. Choi³, H. K. Kang⁴, C. W. Yang⁴, and Y. H. Lee¹ (¹Sungkyunkwan University, Korea ²Chonbuk National University, Korea ³Kyung Hee University, Korea ⁴Sungkyunkwan University, Korea).

- P 22: ^A single-Step Gas Phase Purification of Single Walled Carbon Nanotubes^, Hai Qin Rong and Young Hee Lee (Center for Nanotubes and Nanostructured Composites, Sungkyunkwan University, Korea).
- P 23: ^I-V characterization of vertically aligned carbon nanotubes in anodic aluminum oxide templates^, Seung-Ho Jung¹, Eung-min Lee², Soo-Hwan Jeong², Won-Bong Choi², and Kun-Hong Lee¹ (¹Pohang University of Science and Technology, Korea ²Samsung Advanced Institute of Technology, Korea).
- P 24: ^Single Crystal GaN nanotubes and ZnO/GaN Core-shell Nanorod Heterostructures^, Sung-Jin An¹, Won-II Park, Gyu-Chul Yi, and Mi-Young Kim² (¹Department of Materials science and engineering Pohang University of Science and Technology, Korea ²Samsung Advanced Institute of Technology, Korea).
- P 25: ^Self-Organization of quasi-two dimensional carbon nanotubes structures in high-temperature chemical vapor deposition process^, Qixiang Wang, Guoqing Ning, Fei Wei, and Guohua Luo (Department of Chemical Engineering, Tsinghua University, China).
- P 26: ^Morphology control and field emission characteristics of multi-walled carbon nanotubes grown by thermal CVD^, B.Y. Kong¹, B.K. Kim¹, J.Y. Seon¹, N.S. Lee¹, J.N. Heo², W.S. Kim², T.W. Jeong², J.E. Jung² and J.M. Kim² (¹Dept. of Nano Science and Technology, Sejong University, Korea ²Samsung Advanced Institute of Technology, Korea).
- P 27: ^Carbon nanotubes grown on the patterned indented surface of substrate^, L. Pan¹, H. Shiozaki², T. Inazumi² and Y. Nakayama¹ (¹Osaka Prefecture University, Japan ²Hitachi Zosen Co. LTD, Japan)
- P 28: ^Topology growth mechanism of single-walled carbon nanotubes by chemical vapor deposited on Fe-MgO catalysts^, Qixiang Wang, Guoqing Ning, Fei Wei, and Guohua Luo (Tsinghua University, China).
- P 29: ^Improved emission properties of multiwall carbon nanotubes post-treated by simple ultraviolet laser treatment^, Jun Sik Kim, Kyoung Soo Ahn, Ji Hoon Kim, Chae Ok Kim, and Jin Pyo Hong (Hanyang University, Republic of Korea).
- P 31: ^Growth of carbon nanotubes using anodic aluminum oxide templates^, Yong Sook Shin, Byung Ho Ha, Ji Hoon Yang, Young Jin Lee, Yun Hee Kim, Serng-Yerl Park, Hyun Suk Kim, Chong-Yun Park (Sungkyunkwan University, Korea).
- P 32: ^In-situ X-ray analysis of Fe/ITO catalyst for synthesis of carbon nanocoils^, Kenji Nishimura¹, Lujun Pan^{1,2}, and Yoshikazu Nakayama^{1,2} (¹Osaka Prefecture University, Japan ²Japan Science Technology Corporation Innovation Plaza Osaka, Japan)

- P 33: ^Synthesis and characterization of high-quality double-walled carbon nanotubes using catalytic decomposition of benzene[—], S. C. Lyu¹, B. C. Liu^{1,4}, S. I. Jung¹, S. H. Lee¹ and C. J. Lee¹ H. K. Kang² and C. -W. Yang² C. Y. Park^{3,4} (¹Hanyang University, Korea ²Sungkyunkwan University, Korea ³Sungkyunkwan University, Korea ⁴Sungkyunkwan University, Korea).
- P 34: "Synthesis and growth mechanism of carbon nanotubes with different microstructure", W. C. Ren, H. M. Cheng (Chinese Academy of Sciences, China).
- P 35: "Rapid Growth of Aligned Carbon Nanotubes", Osamu Suekane^{1,4}, Takeshi Nagasaka^{2,4}, Toshikazu Nosaka^{1,4} and Yoshikazu Nakayama^{3,4} (¹Technology Research Institute of Osaka Prefecture, Japan ²Taiyo Toyo Sanso Co., Ltd., Japan ³Osaka Prefecture University, Japan ⁴Japan Science and Technology Corporation Innovation Plaza Osaka, Japan).
- P 36: "Large-scale synthesis of high-quality single-walled carbon nanotube super bundle by catalytic decomposition of acetylene", S. C. Lyu¹, T. J. Lee¹, S. K. Choi¹ and C. J. Lee¹ H. K. Kang² and C. -W. Yang² (¹Hanyang University, Korea ²Sungkyunkwan University, Korea).
- P 37: "Carbon Nanocoils Grown by Fe-In-Sn-O Composite Catalysts", Toshikazu Nosaka^{1,3}, Osamu Suekane^{1,3} and Yoshikazu Nakayama^{2,3} (¹Technology Research Institute of Osaka Prefecture, Japan ² Osaka Prefecture University, Japan ³ Japan Science and Technology Corporation Innovation Plaza Osaka, Japan).
- P 38: ^Catalytic synthesis of high-quality single-walled carbon nanotubes from methane[—], B. C. Liu^{1,4}, S. C. Lyu¹, S. I. Jung¹, S. H. Lee¹ and C. J. Lee¹ H. K. Kang² and C. -W. Yang² C. Y. Park^{3,4}, S. J. Cho⁵, S. W. Nam⁵, J. H. Park⁵, J. E. Yoo⁵ (¹Hanyang University, Korea ²Sungkyunkwan University, Korea ³Sungkyunkwan University, Korea ⁴Sungkyunkwan University, Korea ⁵Iljin nanotechnology R&D center, Korea).
- P 39: ^A simple purification method of single-walled and double-walled carbon nanotubes[—], S. K. Choi¹, C. B. Kong¹, T. J. Lee¹ and C. J. Lee¹ J. W. Han², S. Y. Hong², J. E. Yoo² (¹Hanyang University, Korea ²Iljin nanotechnology R&D center, Korea).
- P 40: ^Tip-opening and C₆₀ filling inside DWNTs/MWNTs by plasma ion irradiation method[—], G. -H. Jeong¹, T. Hirata¹, R. Hatakeyama¹, and K. Tohji² (¹Tohoku University, Japan ²Tohoku University, Japan).
- P 41: ^Synthesis and characterization of vertically aligned carbon nanotubes with open tips by pyrolysis of iron(II) phthalocyanine[—], B. C. Liu^{1,3}, M. Y. Jung¹, H. J. Suh¹, D. S. So¹ and C. J. Lee¹ C. Y. Park^{2,3} (¹Sungkyunkwan University, Korea ³Sungkyunkwan University, Korea)

- P 42: ^Investigation of plasma effects on the nanotube formation and its vertical growth^, R. Hatakeyama¹, T. Hirata¹, G. -H. Jeong¹, T. Kato¹, and K. Tohji² (¹Tohoku University, Japan ²Tohoku University, Japan).
- P 43: ^Well-Aligned Carbon Nanotubes Grown on Cobalt Nanoparticles by Thermal Chemical Vapor Deposition^, Y. Huh¹, J. Y. Lee¹, T. J. Lee², M. Y. Jung², H. J. Suh², D. S. So² and C. J. Lee² (¹Korea Advanced Institute of Science and Technology, Korea ²Hanyang University, Korea).
- P 44: ^Formation of Single-Walled Carbon Nanotubes Using Plasma CVD^, T. Kato¹, G. -H. Jeong¹, T. Hirata¹, R. Hatakeyama¹, K. Tohji², and K. Motomiya² (¹Tohoku University, Japan ²Tohoku University, Japan).
- P 45: ^Single-Walled Carbon Nanotubes Multilayer with High Surface Density^, Dae-Hwan Jung, Young Koan Ko, Myung Sup Jung, and Hee-Tae Jung (Korea Advanced Institute of Science and Technology, Korea).
- P 46: ^Preparation of Nitrogen-Doped Carbon Nanotubes by Chemical Vapor Deposition^, Subing Zhu^{1,2}, Sixiu Sun², Junjian Xu¹, and Yan Li¹ (¹Peking University, China ²Shandong University, China).
- P 47: ^The Formation and Behavior of Bi modified YMnO3 Nano-Rod using Nano-template^, Mun Ja Kim, Taekjib Choi, Jaichan Lee, Ji-Beom Yoo, Chong-Yun Park (Sungkyunkwan University, Korea).
- P 48: ^Floated Catalytic CVD Generation of SWNTs from Alcohol^, Shohei Chiashi, Satoshi Yoshinaga, Yuhei Miyauchi, Yoichi Murakami, Shigeo Maruyama (The University of Tokyo, Japan).
- P 49: ^Chemically Doped Double-Walled Carbon Nanotubes: Cylindrical Molecular Capacitors^, G. Chen, U .J. Kim, S. Bandow, E. R. Margine, C. Nisoli, A. N. Kolmogorov, V. H. Crespi, R. Gupta, G. U. Sumanasekera, S. Iijima and P. C. Eklund (The Pennsylvania State University, USA).
- P 50: ^A Novel Preparation Method of Multi Wall Carbon Nanotubes by processing Polymer dispersion System^, M.Yamamoto¹, T.Shiroya¹, H.Aikyou¹, S.Terada¹, A.Oya² (¹Mitsubishi Chemical Co. Japan ²Gunma University, Japan).
- P 51: ^Heat-Induced Transformation of Nanodiamond into Nanotube : Molecular Dyamics Simulation^, Gun-Do Lee¹, Euijoon Yoon¹, Jaejun Yu², C. Z. Wang³, K. M. Ho³ (¹Seoul National University, Korea ²Seoul National University, Korea ³Iowa State University, USA).
- P 52: ^Structures and properties of purified Double wall carbon nanotubes by high-temperature pulsed arc discharge^, oToshiki Sugai¹, Hiromichi Yoshida¹, Takashi Shimada¹, Toshiya Okazaki¹, Kaori Hirahara², Shunji Bandow², Yutaka

Ohno³, Takashi Mizutani³ Hisanori Shinohara (Dept. Chem. Nagoya Univ. & Inst. for Adv. Res. Nagoya Univ. CREST/JST) (¹Nagoya Univ., Japan ²Meijo Univ., Japan ³Nagoya University, Japan).

P 53: ^Synthesis, Characterization and Field Emission of Carbon Nanotubes on Copper Substrate by Chemical Vapor Deposition[—], Huijuan Bi, Hyun Suk Kim, Serng-Yerl Park, Ji Hoon Yang, Young Jin Lee, Yun Hee Kim, Yong Sook Shin, Byoung Ho Ha, Chong Yun Park (Sungkyunkwan University, Korea).

P 54: ^Synthesis of CNTs on Co deposited the anodic aluminum oxide template by chemical vapor deposition[—], Byung ho Ha, Yong Sook Shin, Ji Hoon Yang, Young Jin Lee, Yun Hee Kim, Serng-Yerl Park, Hyun Suk Kim, Chong-Yun Park (Sungkyunkwan University, Korea).

P 55: ^The Gas Phase Synthesis of Carbon Nanotubes over Metal Cluster Aerosols[—], Kirsten Edgar and John Spencer (Victoria University of Wellington, New Zealand).

€ July 8 (Tuesday)

09:00 ~ 09:40 K 2 : "Carbon and Boron Nitride Nanotubes for Nanoelectromechanical Systems", Alex Zettl (Berkeley, USA).

09:40 ~ 10:10 I 6 : ^Nanostructured Carbon: Nanotubes and Beyond[—], D. Tomanek (Physics and Astronomy Department, Michigan State University, USA).

10:10 ~ 10:40 I 7 : ^Synthesis and Properties of Doped Carbon Nanotubes[—], A. M. Rao (Clemson University, USA).

10:40 ~ 11:00 : coffee break

11:00 ~ 11:30 I 8 : "Electronic and Geometric Structure of Carbon Nanotubes", Susumu Saito (Tokyo Institute of Technology, Japan).

11:30 ~ 12:00 I 9 : ^Exploring surfaces and cavities in nanotubulites with a sub-nm electron beam[—], Odile Stephan (Universite Paris Sud, France).

12:00 ~ 12:30 I 10 : ^One-dimensional Molecular Crystals Formed inside Single-Wall Carbon Nanotubes[—], Hiromichi Kataura (Tokyo Metropolitan University, Japan).

12:30 ~ 14:00 : lunch break

14:00 ~ 14:15 O 5 : "Band Modulation in Various Nanopeapods and Its Origin", Jinhwan Lee^{1,2}, H. Kim^{1,2}, S.-J. Kahng³, J. Ihm², H. Shinohara⁴ and Y. Kuk^{1,2} (¹Center for Science in Nanometer Scale, Korea ²Seoul National University, Korea ³Korea University, Seoul, Korea ⁴Nagoya University, Japan).

- 14:15 ~ 14:30 O 6 : "Supercurrents through diffusive multi-walled carbon nanotubes ", S.Miyadai,¹ K.Takazawa,¹ A.Takeda,¹ N.Hori,¹ I.Takesue,^{1,3} Y.Kanda,¹ J.Haruyama,^{1,3,4} N. Sugiyama,² T.Akazaki³, and H.Takayanagi³ (¹Aoyama Gakuin University, Japan ²Toray research center, Japan ³NTT Basic Research Laboratories, Japan ⁴ JST-CREST, Japan).
- 14:30 ~ 14:45 O 7 : "Effect of Nanotube Type on the Enhancement of Mechanical Properties of Free- Standing Polymer/Nanotube Composite Films", M. Cadek¹, J. N. Coleman¹, A. Fonseca², J. B. Nagy², F. Beguin³ and W. J. Blau¹ (¹Trinity College Dublin, Ireland ²Fac. Universite. Belgium ³CNRS, France).
- 14:45 ~ 15:00 O 8 : "EVIDENCE FOR DIAMETER DEPENDENT TUBE-TUBE INTERACTION IN CARBON NANOTUBE BUNDLES", U.D. Venkateswaran¹, D.L. Masica¹, G. Sumanasekara², C.A. Furtado, U.J. Kim, and P.C. Eklund³ (¹Oakland University, USA ²University of Louisville, USA ³Pennsylvania State University, USA).
- 15:00 ~ 18:30 P 56: "Low Temperature Synthesis of Carbon Nanotubes by Catalytic CVD from Tetrahydrofuran", Masayoshi Tarutani, Mikio Yamamuka, Shingo Tomohisa, Tetsuo Fukada and Hiroshi Kobayashi (Mitsubishi Electric Corporation, Japan).
- P 57: "The Effect of Copper on the Initial Growth of Carbon nanotubes", Hee-Kwang kang¹, Min Ho Park¹, Ji-Beom Yoo², Chong-Yun Park², Cheol-Woong Yang¹ (¹SungKyunKwan University, Korea ²Center for Nanotubes and Nanostructured Composites, Korea).
- P 58: "Synthesis of high density, self-oriented Carbon Nanotubes (CNTs) through Spray Pyrolysis technique and its structural disorder determination using micro- focus Raman Spectroscopy", Anchal Srivastava & O.N. Srivastava (Banaras Hindu University, India).
- P 59: "Investigation on a rotating electrode effect on the formation of single-walled carbon nanotubes by arc discharge", Jun Cheol Bae¹, Won Kyung Seong¹, Se-Jong Lee², Kie Moon Song³, and Hong Koo Baik¹ (¹Yonsei University, Korea ²Kyungsung University, Korea ³Konkuk University, Korea).
- P 60: "Influence of Catalysts on Morphology of MWNTs Produced by Arc Discharge in Liquid Hydrocarbons", Vladislav A. Ryzhkov (Rosseter Holdings Ltd, Cyprus).
- P 62: "Theoretical Study on STM Image and STS of Semiconductor Carbon Nanotube Junctions", Young-Woo Son, Sangbong Lee, Chungki Lee, and Jisoon Ihm (Seoul National University, Korea).
- P 63: "The conductivity of single walled nanotube films in Terahertz region", Han Jiaguang, Zhu Zhiyuan, Wan Zhenxia, Zhang Wei, Yu Liping, Sun Litao, Wang Tingtai (Shanghai Institute of Nuclear Research, China).

- P 64: "An Atomistic Study on BN, AlN, and GaN Nanotubes", Jeong Won Kang, Ki Oh Song, Won Young Choi, and Ho Jung Hwang (Chung-Ang University, Korea).
- P 65: "Anharmonic Vibrational Coupling in Fullerenes and Nanotubes", Daniel A. Jelski¹, G. P. Zhang², Laszlo Nemes³, Thomas F. George⁴ (¹Rose-Hulman Institute of Technology, USA ²Indiana State University, USA ³Hungarian Academy of Sciences, USA ⁴University of Wisconsin-Stevens Point, USA).
- P 66: "Cu Nanocluster Diffusion in Carbon Nanotubes", Won Young Choi, Jeong Won Kang, Ki Oh Song and Ho Jung Hwang (Institute of Technology and Science, Korea).
- P 67: "DFT Studies on the Field Emission Properties of Single Wall Carbon Nanotubes", X. Duan, B. Akdim, and R. Pachter (Materials & Manufacturing Directorate Wright-Patterson Air Force Base, USA).
- P 68: "The structural and electronic properties of carbon nitride nanotubes", Young Jin Lee, Ji Hoon Yang, Yun Hee Kim, Yong Sook Shin, Byung Ho Ha, Serng-Yerl Park, Hyun Suk Kim, Chong-Yun Park (Sungkyunkwan University, Korea).
- P 69: "Tuning chirality of singlewalled carbon nanotubes by a selective etching with gas adsorbates", Kwanyong Seo¹, Changwook Kim¹, Bongsoo Kim¹, Young Hee Lee² (¹Korea Advanced Institute of Science and Technology, Korea ²Sungkyunkwan University, Korea).
- P 73: "Suspended Individual Single-Wall Carbon Nanotubes Using the AC Electrophoresis Technique", Sang Wook Lee¹, Dong Su Lee¹, Han Young Yu², Eleanor E. B. Campbell³, Yung Woo Park¹ (¹Seoul National University, Korea, ²BElectronics and Telecommunications Research Institute, Korea, ³Gothenburg University and Chalmers University of Technology, Sweden).
- P 75: "First-principles calculations on the Bromine adsorptions on the carbon nanotube wall", Noejung Park¹, Syogo Tejima¹, Hisashi Nakamura¹, Yoshiyuki Miyamoto² (¹Research Organization for Information Science and Technology, Japan ²NEC corporation 34, Japan).
- P 76: "Electronic Structure and Paramagnetic Response of Carbon Nanotube", Hosik Lee, Jaejun Yu (Seoul National University, Korea).
- P 78: "Orbital Hybridization and Charge Transfer in Carbon Nanopeapods", Youngmi Cho¹, Seungwu Han², Gunn Kim¹, Hosik Lee¹, and Jisoon Ihm¹ (¹Seoul National University, Korea ²Princeton University, USA).
- P 79: "Computational Diagnosis for Reactivity of Ultra Thin Carbon Nanotubes ~ Stability under Oxidization", Takazumi Kawai and Yoshiyuki Miyamoto (NEC corporation, Japan).

- P 80: "Density Functional Calculation of Hydrogen Adsorption on Single-walled Carbon Nanotube", Sang Soo Han and Hyuck Mo Lee (Korea Advanced Institute of Science and Technology, Korea).
- P 81: "The effects of ion-irradiation-induced defects on mechanical properties of carbon nanotubes", M. Huhtala¹, A. Krashennnikov², K. Nordlund², A. Kuronen¹, and K. Kaski¹ (¹Laboratory of Computational Engineering, Finland ²University of Helsinki, Finland).
- P 82: "Transport Properties of Cesium Encapsulated Single-Walled Carbon Nanotubes", Sung-Ho Jhang¹, Dong-Su Lee¹, Sang-Wook Lee¹, Yung-Woo park¹, Goo-Hwan Jeong², T. Hirata², Rikizo Hatakeyama², Siegmard Roth³ (¹Seoul National University, Korea ²Tohoku University, Japan ³Max-Planck-Institut fuer Festkoerperforschung, Germany).
- P 83: "Raman spectra of single-walled carbon nanotubes suspended between Si nano-pillars", Y. Kobayashi¹, D. Takagi², Y. Ueno³, T. Ogino⁴ and Y. Homma¹ (¹NTT Corporation, Japan ²Meiji University, Kawasaki, Japan ³NTT Corporation, Japan ⁴Yokohama National University, Japan).
- P 84: "Solid State NMR Studies of Nanostructured Alumina Materials", Hae Jin Kim¹, Hyun Chul Lee², Kyung Hee Lee², and Jae Sung Lee² (¹Korea Basic Science Institute, Korea ²Pohang University of Science and Technology, Korea).
- P 85: "Resonant Raman Intensity of single wall carbon nanotubes", R. Saito¹, A. Grueneis¹, G. Ge. Samsonidze², A. Jorio³, A. G. Souza-Filho⁴, M. A. Pimenta³, G. Dresselhaus², M. S. Dresselhaus² (¹Tohoku Univ. Japan ²MIT, USA ³UFMG, Brazil ⁴UFC, Germany).
- P 86: "CLASSIFICATION OF THREE-TERMINAL JUNCTION CARBON NANOTUBES", L. Chernozatonskii, S. Lisenkov (Institute of Biochemical Physics, Russia).
- P 87: "Structural Variation of Different Types of Carbon Nanofibers by Heat Treatment", Y. A. Kim, T. Hayashi, T. Yanagisawa, H. Muramatsu, M. Ezaka, B. J. Lee and M. Endo (Faculty of Engineering, Shinshu University, Japan).
- P 88: "Microstructure and Electrical Properties of a CNTs/Epoxy Composite", Yi Huang, Fei Wei, Guohua Luo, Zhifei Li, Weiping Zhou (Tsinghua University, China).
- P 89: "Edge effect in the field emission properties for vertically aligned carbon nanotube arrays", H. J. Jeong, S. C. Lim, and Y. H. Lee (Sungkyunkwan University, Korea).
- P 90: "Sliding Force for Interlayer of Multiwall Carbon Nanotube", Seiji Akita and Yoshikazu Nakayama (Osaka Prefecture University Japan).
- P 91: "Third Order Nonlinear Optical Properties of Multiwalled Carbon Nanotube Suspensions", Bok Ryong Lim, Hyojung Yu, and Sok Won Kim (University of Ulsan, Korea).

- P 92: "Electron diffraction study of the small-diameter carbon nanotube less than 0.7nm", Kaori Hirahara¹, Shunji Bandow¹, Hiromichi Kataura², Mathieu Kociak³, and Sumio Iijima 145 (¹Meijo Univ., Japan ²Tokyo Metro. Univ., Japan ³CEA SACLAY, Japan ⁴NEC, Japan ⁵JST, Japan).
- P 93: "Field emission of carbon nanotubes pattern-grown on glass by thermal chemical vapor deposition", B.K. Kim¹, B.Y. Kong¹, J.Y. Seon¹, N.S. Lee¹, H.J. Kim², I. T. Han², J.H. Choi², J.E. Jung² and J.M. Kim² (¹Sejong University, Korea ²Samsung Advanced Institute of Technology, Korea).
- P 95: "Hydrogen chemisorption on SWNTs", K. A. Park and Y. H. Lee (Sungkyunkwan University, Korea).
- P 97: "Atomic and electronic structures of fluorinated singlewalled carbon nanotubes", K. A. Park¹, Y. S. Choi¹, C. W. Kim² and Y. H. Lee¹ (¹Sungkyunkwan University, Korea ²Korea Advanced Institute of Science and Technology, Korea).
- P 98: "Electrical Properties of Self-assembled Carbon Nanotube Ultra-thin Films", Manami Satoh, Yoshiko Ohtaki, Masahito Sano (Department of Polymer Science and Engineering, Yamagata University, Japan).
- P 99: "Exfoliation of single-walled carbon nanotubes by electrochemical intercalation", Hyun Jin Kim¹, Kwan Ku Jeon¹, Kay Hyeok An¹, Chan Kim², Jeong Goo Heo¹, Ji Yeong Lee¹, Seong Chu Lim¹, Dong Jae Bae¹, Young Hee Lee¹ (¹Sungkyunkwan University, Korea ²Korea Advanced Institute of Science and Technology, Korea).
- P 101: "Properties of N₂ doped carbon nanotubes by plasma-enhanced chemical vapor deposition", Ji Hoon Yang¹, Yun Hee Kim¹, Young Jin Lee¹, Byung Ho Ha¹, Yong Sook Shin¹, Serng-Yerl Park¹, Hyun Suk Kim¹, Kyu-Wook Ihm², Ha Jin Song², Tai-Hee Kang², Hyun-Joon Shin² and Chong-Yun Park¹ (¹Sungkyunkwan University, Korea ²Pohang University of Science and Technology, Pohang, Korea).
- P 102: "Mechanical Properties of Single Wall Carbon Nano Tubes with Pinhole Defects by Molecular Dynamics Study", Hideki MORI, Yoshihisa KIMOTO, Seiji AKITA, Yoshikazu NAKAYAMA and Yoshihiko HIRAI (Graduate School of Osaka Prefecture University, Japan).
- P 103: "Field emission from carbon nanotubes prepared on the Ti deposited Si substrate", T. J. Lee, S. C. Lyu, C. B. Kong, S. B. Lee and C. J. Lee (Hanyang University, Korea).
- P 104: "Characterization and structural transformation of fluorinated singlewalled carbon nanotubes induced by in situ electron-beam irradiation", Kay Hyeok An^{1,4}, Kyung Ah Park¹, Jeong Gu Heo¹, Ji Yeong Lee², Seong Chu Lim^{1,4}, Cheol-Woong Yang^{3,4}, Young Seak Lee⁵, and Young Hee Lee^{1,3} (¹Sungkyunkwan University, Korea ²Department of

Nanoscience and Technology, Korea³Department of Advanced Materials Engineering, Korea⁴Sungkyunkwan University, Korea⁵Sunchon National University, Korea).

- P 105: "Hybrid capacitors using asymmetric electrodes of carbon nanotubes and activated carbons in organic electrolyte", Kay Hyeok An^{1,3}, Ji Young Lee², Cheol-Min Yang³, Hyun Jin Kim¹, Eun Ju La¹, Seong Chu Lim^{1,3}, Dong Jae Bae³, and Young Hee Lee^{1,3} (¹National Research Laboratory for Carbon Nanotubes, Korea²Department of Nanoscience and Technology, Korea³Sungkyunkwan University, Korea).
- P 106: "Dispersion evaluation of singlewalled carbon nanotubes in various solutions using electrophoretic and dynamic light scattering spectrophotometer", Kay Hyeok An^{1,3}, Ji Young Lee², Jin Soo Kim¹, Hyun Jin Kim¹, Cheol-Min Yang³, Seong Chu Lim^{1,3}, Dong Jae Bae³, and Young Hee Lee^{1,3} (¹Sungkyunkwan University, Korea²Department of Nanoscience and Technology, Korea³Sungkyunkwan University, Korea).
- P 108: "Physical and chemical properties of doublewalled carbon nanotubes grown by arc discharge", Ji Yeong Lee¹, Joe Oong Han², Kay Hyeok An³, Hee Jin Jeong³, Gyu Lee³, Jae Eun Yoo², J. S. Suh⁵ and Young Hee Lee^{3,4}, (¹Department of Nanoscience and technology, Korea²Iijin nanotechnology R&D center, Korea³National Research Laboratory for carbon nanotubes, Korea⁴SungKyunKwan University, Korea, ⁵Seoul National University, Korea).
- P 109: "Observation of Metal Clusters on Single-wall Carbon Nanohorns by Scanning Transmission Electron Microscopy", Ayako Hashimoto¹, Hideki Yorimitsu², Kazutomo Suenaga¹, Daisuke Kasuya³, Hiroyuki Isobe², Masako Yudasaka^{3,4}, Eiichi Nakamura² and Sumio Iijima^{1,3,4} (¹National Institute of Advanced Industrial Science and Technology, Japan²The University of Tokyo, Japan³NEC Corporation, Japan⁴Japan Science and Technology Corporation, Japan).
- P 110: "Electrochemical Properties of a Carbon Nanotubes/Nickel Oxide Nanocomposite electrodes", Kui Liang, Kay Hyeok An, Ji Yeong Lee, Chong Yun Park, Young Hee Lee (Sungkyunkwan University, Korea).

18:30 Leave for boat banquet in Han river

€ July 9 (Wednesday)

09:00 ~ 09:40 K 3 : Sumio Iijima (Meijo Univ. Japan) TBA

09:40 ~ 10:10 I 11 : "Transport properties of nanotube hybrid systems", Kee Joo Chang (Korea Advanced Institute of Science and Technology, Korea).

10:10 ~ 10:40 I 12 : "Probe of electronic structures of 0.4 nm single-walled carbon nanotubes by resonant Raman spectroscopy", Z. K. Tang (Hong Kong University of Science & Technology, Hong Kong).

10:40 ~ 11:00 : coffee break

11:00 ~ 11:30 I 13 : "Many-Electron Effects in the Optical Spectra of Carbon Nanotubes", S.Louie (Berkeley, USA).

11:30 ~ 12:00 I 14 : "Defect Engineering: Creation of Nanotube Junctions, 2D Networks, and High Melting of Encapsulated Metal Clusters in Carbon Nanostructures", M. Terrones (IPICT, Mexico).

12:00 ~ 12:30 I 15 : "(n,m)-Resolved Optical Spectra of Single-Walled Carbon Nanotubes: Assignment and Applications", R. Bruce weisman (Rice University, USA)

12:30 ~ 14:00 : lunch break

14:00 free tour

€ July 10 (Thursday)

09:00 ~ 09:40 K 4 : J. M .Kim(Samsung SDI, Korea) TBA

09:40 ~ 10:10 I 17 : "Signatures of Mechanical Excitations in Low Temperature Transport in Suspended Carbon Nanotubes", Pablo Jarillo-Herrero (Delft University, Netherlands).

10:10 ~ 10:25 O 9 : "Fabrication of high-resolution carbon nanotube field-emission cathodes by self-assembly", S. Oh¹, Y. Cheng², J. Zhang², H. Shimoda³, Q. Qiu³, and O. Zhou^{1,2} (¹Curriculum in applied and materials sciences, UNC-CH, ² Dept of Physics and Astronomy, UNC-CH, ³Applied Nanotechnologies, Inc., USA).

10:25 ~ 11:00 : coffee break

11:00 ~ 11:30 I 18 : "Probing and modifying the electrical properties of carbon nanotube devices using an atomic force microscope", Ji-Yong Park (Cornell University, USA).

11:30 ~ 12:00 I 20 : "New crystal structures formed within single walled carbon nanotubes", J. Sloan (University of Oxford, UK).

12:00 ~ 14:00 : lunch break

14:00 ~ 14:15 O 10 : "Resonant transport in crossed carbon nanotubes", Jinhee Kim¹, Jong Wan Park¹, Jeong-O Lee², Ju-Jin Kim², Kicheon Kang³, Kyung-Hwa Yoo⁴ (¹Korea Research Institute of Standards and Science, Korea ²Chonbuk National University, Korea ³Electronics and Telecommunications Research Institute, Korea ⁴Yonsei University, Korea).

14:15 ~ 14:30 O 11 : "Manipulation and separation of carbon nanotubes based on their chirality", Kim Bolton, Arne Rosen and Simon

Gustavsson (Goteborg University and Chalmers University of Technology, Sweden).

- 14:30 ~ 14:45 O 12 : "Carbon nanotube transistors operated in aqueous media", Takao Someya^{1,2}, Philip Kim³, Colin Nuckolls², and James T. Yardley⁴ (¹University of Tokyo, Japan. ²Columbia University, USA ³Columbia University, USA ⁴Columbia University, USA).
- 14:45 ~ 18:30 P 111: "Porosity Evaluation of Carbon Nanotube Assemblies", Cheol-Min Yang and Young Hee Lee (Sungkyunkwan University, Korea).
- P 112: "Electrical behaviour of Self-aligned electrodes on suspended carbon nanotube structures", L. A. W. Robinson¹, S.-B. Lee¹, D. A. Williams², D. G. Hasko¹, and H. Ahmed¹ (¹University of Cambridge, Cambridge, UK ²Cambridge, UK).
- P 113: "Interwall support effect in double-walled carbon nanotubes detected by scanning tunneling microscopy", M. H. Park¹, J. W. Jang¹, C. E. Lee¹, T. J. Lee², S. C. Lyu², C. J. Lee² (¹Korea University, Korea ²Hanyang University, Korea).
- P 114: "Characterization of single-walled carbon nanotubes catalytically synthesized from alcohol", Shigeo Maruyama, Yoichi Murakami, Yuhei Miyauchi and Shohei Chiashi (The University of Tokyo, Japan).
- P 115: "Electrical properties of individual bamboo-shaped multiwalled carbon nanotubes", J. W. Jang¹, M. H. Park¹, C. E. Lee¹, T. J. Lee², S. C. Lyu², C. J. Lee² (¹Korea University, Korea ²Hanyang University, Korea).
- P 116: "Spontaneous self-agglomeration of magnetic nanoparticles into nanowires", I. Alexandrou¹, D. K. H. Ang¹, A.-S. Teh¹, G. A. J. Amaratunga¹ and S. Haq² (¹Cambridge University, UK ²Advanced Technology Centre, UK).
- P 117: "Bias-voltage dependent hysteretic magnetoresistance in a single-walled carbon nanotube with the mesoscopic Co contacts", Jae-Ryoung Kim¹, Hye Mi So¹, Ju-Jin Kim¹, Jinhee Kim² (¹Chonbuk National University, Korea ²Korea Research Institute of Standard and Science, Korea).
- P 118: "Radiation Study of Fluorinated Single Wall Nanotubes and Non Fluorinated Single Wall Nanotubes", M. X. Pulikkathara¹, R. Wilkins¹, S. Ardelan¹, Meisha Shofner², J. Vera², Fernando Rodriguez-Macias², E. V. Barrera² (¹Prairie View A&M University, USA ²Rice University, USA).
- P 119: "Gate-dependent magnetoresistance in double-walled carbon nanotubes", Jae-Ryoung Kim¹, Ju-Jin Kim¹, Jinhee Kim², Cheol Jin Lee³, Seung Chul Lyu³ (¹Chonbuk National University, Korea ²Korea Research Institute of Standards and Science, Korea ³Hanyang University, Korea).

- P 120: "Adsorption of Sulfur-containing Molecules onto Carbon Nanotubes", Seungkwang Roh, Jihoon Oh, Whikun Yi (Department of Chemistry, Hanyang University, Korea).
- P 121: "Two condensed phases of Ar confined inside open single-walled carbon nanotubes", Zygmunt J. Jakubek and Benoit Simard (National Research Council of Canada, Canada).
- P 122: "Adsorption and dissociation of C₂H₂ on Ni surfaces related to the growth mechanism of carbon nanotubes.", Young-Han Shin^{1,2} and Suklyun Hong¹ (¹Sejong University, Korea, ²Sungkyunkwan University, Korea).
- P 123: "Electrical properties of iodine doping carbon nanotubes.", Daniel(T.S.) Yang¹, J. W. Jang¹, C. E. Lee¹, T. J. Lee², S. C. Lyu², C. J. Lee² (¹Korea University, Korea ²Hanyang University, Korea).
- P 124: "Local peeling of Carbon Nanotube Walls and Analysis of Electrical Property Changing from Metal to Semiconductor", Jinhee Heo, Seokheun Choi, IISub Chung (SungKyunkwan University, Korea).
- P 125: "Pressure-dependent Studies of Nested Carbon Nanotubes using Raman Scattering", R. Gupta¹, U.D. Venkateswaran², X. Liu¹, S. Bandow³, S. Iijima^{3,4}, and P.C. Eklund¹ (¹Pennsylvania State University, U.S.A. ²Oakland University, U.S.A. ³Meijo University, Japan. ⁴NEC Corporation, Japan).
- P 126: "Electronic Property of Cesium-filled Single Wall Nanotubes ", Young Jae Song¹, Hajin Kim¹, Goo-Hwan Jeong², Takamichi Hirata², Rikizo Hatakeyama², Young Kuk¹ (¹Seoul National University, Korea ²Tohoku university, Japan).
- P 127: "Effect of a rotating electrode on the synthesis of B-C-N nanotubes", Won kyung Seong¹, Jun Cheol Bae¹, Soon Moon Jeong¹, Hong Koo Baik¹, Se-Jong Lee² and Kie Moon song³ (¹Yonsei university, Korea ²Kyungsung University, Korea ³Konkuk university, Korea).
- P 128: "Occurrence of local magnetic moment in all-carbon fullerenes and nanotubes", Yong-Hyun Kim¹, J. Choi², Kee Joo Chang², and D. Tomanek³ (¹National Renewable Energy Lab, USA ²Korea Advanced Institute of Science and Technology, Korea ³Michigan State University, USA).
- P 129: "Characterization of aligned single-wall carbon nanotubes by Terahertz time-domain spectroscopy", Tae-In Jeon¹, Geun-Ju Kim¹, Chul Kang², In Hee Maeng², Joo-Hiuk Son², K. H. An,³ D. J. Bae³, and Y. H. Lee³ (¹Korea Maritime University, Korea ²University of Seoul, Korea ³Sungkyunkwan University, Korea).
- P 130: "Functionalization of Single-Wall Carbon Nanotubes for Application to Dye-Sensitized Solar Cells", Song-Rim Jang,

Jin Sup Hong, Kyoung-Hwa Jung, and Kang-Jin Kim (Korea University, Korea).

- P 131: "High Microwave Permittivity of Multi-walled Carbon Nanotube Composites", Wu Junhua, Kong Lingbing and Hock Kai Meng (National University of Singapore, Singapore).
- P 132: "Dynamic behavior of fullerene dimer molecule in carbon nanopeapod: Molecular dynamic simulation", Changhoon Lee¹, Hee Man Eun¹, Sung Soo Park¹, Eiji Osawa², and Kee Hag Lee¹ (¹Wonkwang University, Korea ²Futaba Corporation, Japan).
- P 133: "Surface reconstructions of nanodiamond surface", Jun Hee Lee, Kyuho Lee, Guudo lee, Jaejun Yu (Seoul National University, Korea).
- P 134: "Study on pulling out property about double wall carbon nano tube (DWNT) based on molecular dynamics", Yoshihisa KIMOTO, Hideki MORI, Seiji AKITA, Yoshikazu NAKAYAMA and Yoshihiko HIRAI (Graduate School of Osaka Prefecture University, Japan).
- P 135: "Electronic Properties of the Oxidized Carbon Nanopeapod", Wooni Choi, Young-Woo Son, Jisoon Ihm (Seoul National University, Korea).
- P 136: "First-Principles Study of the Self-Assembled Pentacene Molecules on Metal Surfaces", Kyuho Lee and Jaejun Yu (Seoul National University, Korea).
- P 137: "Characterization of a cross-junction of multi-walled carbon nanotubes fabricated by using nanomanipulators.", K. S. Kim¹, S. C. Lim¹, I. B. Lee¹, D. J. Bae¹, S. C. Cho², J. E. Yoo², J. R. Kim³, J-J Kim³, W. B. Choi⁴, Y. H. Lee¹ (¹Sungkyunkwan University, Korea ²Nano Technology Center, Korea. ³Chonbuk National University, Korea. ⁴Samsung Advanced Institute of Technology, Korea).
- P 138: "Study of The Cyclic Charge-discharge Behavior of As-grown Single-walled Carbon Nanotubes By Cyclic Voltammetry", Hai-Tao Fang, Chen-Guang Liu, Min Liu, Chang Liu, Xiang-Li Li, Feng Li, Hui-Ming Cheng (Chinese Academy of Sciences, China).
- P 139: "Carrier transport properties of metallofullerenes nanopeapods", Takashi Shimada¹, Yutaka Ohno², Toshiya Okazaki¹, Kazutomo Suenaga³, Toshiki Sugai¹, Shigeru Kishimoto², Takashi Mizutani², and Hisanori Shinohara^{1,4} (¹Nagoya University, Japan ²Nagoya University, Japan ³National Institute of Advanced Industrial Science and Technology, Japan ⁴Nagoya University, Japan).
- P 140: "Gate bias reponse characteristics of multiple carbon nanotube array made by electric field assisted lateral growth", Yun-Hi Lee¹, Yoon-Taek Jang², Dong-Ho Kim³, Byeong-Kwon Ju² (Korea University, Korea ²KIST, Korea ³Yeungnam University, Korea).

- P 141: "Influence of purification methods on electrochemical capacitance of carbon nanotube/polypyrrole for supercapacitor", Lixiang Li, Chenguang Liu, Haitao Fang, Feng Li, Hui-Ming Cheng (Chinese Academy of Sciences, China).
- P 142: "Self-gating suppressed rectification property in Y-junction carbon nanotube with a large diameter and acute angle of two branches", Tetsuhiko Inazu¹, Yusuke Kusumoto¹, Masayuki Mitome¹, Yuko Kanda¹, Izumi Takesue^{1,3}, and Junji Haruyama^{1,2,3} (¹Aoyama Gakuin University, Japan ²JST- CREST, Japan ³NTT Basic Research Laboratories, Japan).
- P 143: "Carbon nanotube field emitters of high performance", W. J. Yu, Y. S. Cho, G. S. Choi and D. J. Kim (Chungnam National University, Korea).
- P 144: "Side gate nanotransistors by using selectively grown vertical carbon nanotubes", Eun-Ju Bae, Eung-min Lee, Ju-Hye Ko, Dong-Hun Kang, Soo-Hwan Jeong and Won Bong Choi (Samsung Advanced Institute of Technology, Korea).
- P 145: "Highly conductive carbon nanotube probes", Hideki Negishi¹, Nami Choi², Seiji Akita¹, and Yoshikazu Nakayama¹ (¹Osaka Prefecture University, Japan ²Motorola Japan Ltd., Japan).
- P 146: "Transport through quantum dot from electric nicking carbon nanotube", Wei Ren and Jian Wang (The University of Hong Kong, China).
- P 147: "Temperature Dependent Optical Limiting in Multiwalled Carbon Nanotube Suspensions", Hyojung Yu and Son Won Kim (University of Ulsan, Korea).
- P 148: "Highly sensitive gas sensor using a nanocomposite of SWNTs and polypyrrole", S. Y. Jeong¹, H. R. Hwang², K. H. An¹, and Y. H. Lee¹ (¹Sungkyunkwan University, Korea. ²Woojin Instruments & System Engineering Inc. Korea).
- P 149: "Large scale simulations on the thermal conductivity of the carbon nanotube", Syogo Tejima¹, Savas Berber², Noboru Jimbo¹, Kazuo Minami¹, Noejung Park¹, Mina Yoon², Hisashi Nakamura¹, David Tomanek² (¹Research Organization for Information Science & Technology, Japan ²Michigan State University, USA).
- P 150: "Electrochemistry with individual single-walled carbon nanotubes ", Jing Kong, Pablo Jarillo-Herrero, Cees Dekker (TU Delft, Netherlands).
- P 151: "Thermal-Field Emission of Multiwall Carbon Nanotubes", S. C. Lim¹, H. J. Jeong¹, K. S. Kim¹, I. B. Lee¹, K. H. An¹, D. J. Bae¹, Y. H. Lee¹, S. C. Cho², J. E. Yoo² (¹Sungkyunkwan University, Korea ²Nano Technology Center, Korea).

- P 152: "Effect of in-situ rf plasma treatment of multiwall carbon nanotube with various gases for enhanced field emission and hydrogen storage", Kyoung Soo Ahn, Jun Sik Kim, Ji Hoon Kim, Chae Ok Kim, and Jin Pyo Hong (Hanyang University, Korea).
- P 153: "Carbon nanotube-based field emission for x-ray tube", Hyun Suk Kim, Serng-Yerl Park, Ji Hoon Yang, Yun Hee Kim, Young Jin Lee, Yong Sook Shin, Byoung Ho Ha, Chong-Yun Park (Sungkyunkwan University, Korea).
- P 154: "Enhanced Electron Emission from Carbon Nanotube Paste through rheological analysis", Jong Hyung Choi¹, Ji-Beom Yoo¹, Chong Yoon Park¹, Joong Woo Nam², Sung Key Kang², Jong Min Kim² (¹Center for Nanotubes and Nanostructured Composites, Korea ²Samsung SDI., Korea).
- P 155: "Conductivity Control of Single-Walled Carbon Nanotubes with Organic Compounds", Jihoon Oh, Seungkwang Roh, Haesung Lee, Whikun Yi (Hanyang University, Korea).
- P 156: "Channel Length Effect Characterization of Carbon Nanotube Field-Effect Transistors Using Scanning Probe Microscope", Seokheun Choi, Jinhee Heo, Ilsub Chung (SungKyunKwan University, Korea).
- P 157: "CNT based non-volatile memory device", D. Kang, E. Lee, E. Bae, Soodoo Chae, Joohyung Kim, Chungwoo Kim, Won Bong Choi (Samsung Advanced Institute Of Technology, Korea).
- P 158: "Field Emission Properties of Alkali Metal-Doped Selectively Grown Carbon Nanotubes for Electron Emitter in Microwave Power Amplifier", Jae-Hee Hana¹, Tae Young Lee¹, Do Yoon Kim¹, Ji-Beom Yoo¹, Chong-Yun Park¹, Jin Ju Choi², Ha Jin Kim³, In Taek Han³, Jong Min Kim³ (¹Sungkyunkwan University, Korea ²Gwangwoon University, Korea ³ Samsung Advanced Institute of Technology, Korea).
- P 159: "Fabrication of the cantilever for nanotweezer and nano-hall probe", S. S. Choi¹, D.W. Kim¹, J.T. Ok¹, J.W. Kim², J.H. Boo², K.S. Kim³, Y.H. Lee³ (¹Sun Moon University, Korea ²Sungkyunkwan University, Korea. ³Sungkyunkwan University, Korea).
- P 160: "Chemically modified multi wall carbon nanotubes; Field emission properties and XPS investigation", Sunwoo LEE and Tetsuji ODA (The University of Tokyo, Japan).
- P 161: "An application of Carbon Nanotubes as a High Quality Electron Beam Source for Free Electron Laser and Advanced Electron Accelerators", Young Hwan Han¹, Byong Cheol Lee¹, Young Uk Jung¹, Cheol Jin Lee², Tae Jae Lee², Young Kyung Lim³ (¹Korea Atomic Energy Research Institute, Korea ²Hanyang Univ. Korea ³Hanyang Univ., Korea).

- P 162: "Engineered carbon nanotube materials for high-Q nanomechanical resonators", Dan Choi¹, M. Bronikowski¹, J. Davis¹, L. Epp¹, M. Hoenk¹, D. Hoppe¹, B. Hunt¹, R. Kowalczyk¹, F. Noca¹, E. Wong¹, B. Chang², A. Yin², M. Tzolov², K. Hanson², J. Xu², J. Adams³, B. Rogers³ (¹Jet Propulsion Laboratory/NASA, USA ²Brown University, USA ³University of Nevada-Reno, USA).
- P 163: "Field Emission From An Individual Carbon Nanocoil", Shinya Sugimoto¹, Phan Ngoc Minh², Takahito Ono¹ and Masayoshi Esashi^c (¹Tohoku University, Japan ²Tohoku University, Japan ^cTohoku University, Japan).
- P 164: "Oxygen storage in MWNTs at large scale", WU Yulong, WEI Fei, LUO Guohua, NING Guoqing (Tsinghua University, China).
- P 165: Top and bottom growth mechanism of CNTs using iron nano particles", Kwangoo Jeon¹, Kyeongtaek Jung¹, Myungsoo Kim¹, Youngsoo Kim¹, Taejin Chun¹, Wonbong Choi² (1Samsung Corning Co. LTD., Suwon, Korea, 2Florida International University, Miami, USA).
- P 166: "Two-dimensional strain mapping in model fiber-polymer composites using carbon nanotube Raman sensors", Qing Zhao, H. Daniel Wagner (Weizmann Institute of Science, Israel).

€ July 11 (Friday)

- 09:00 ~ 09:30 I 21 : "Single Carbon Nanotube Spectroscopy". M. S. Dresselhaus (MIT, USA).
- 09:40 ~ 10:10 I 22 : "Modification of atomic and electronic structures of carbon nanotubes by functionalization", Y. H. Lee (Sungkyunkwan University, Korea)
- 10:10 ~ 10:40 I 23 : "Gaining Control in the Synthesis of Single Walled Carbon Nanotubes", Jie Liu (Duke University, USA).
- 10:40 ~ 11:00 : coffee break
- 11:00 ~ 11:15 O 13 : "The electro-mechanically coupled quantum oscillations of C₆₀ inside a carbon nanotube", Han Young Yu¹, Dong Su Lee², Sung Ho Jhang², Seung Hyun Lee², Ursula Dettlaff-Weglikowska¹, Sung Soo Kim², Sang Wook Lee², Jin Gyu Park², Siegmund Roth³ and Yung Woo Park^{2,4} (¹Electronics and Telecommunications Research Institute, Korea, ²Seoul National University, Korea, ³Max-Planck-Institut für Festkörperforschung, Germany, ⁴National High Magnetic Field Laboratory, USA).
- 11:15 ~ 11:30 O 14 : "Ultra-Fast Nanotube De-Oxidation Induced by Electronic Excitations", Yoshiyuki Miyamoto¹, Noboru Jinbo², Angel Rubio³, and David Tomanek⁴ (¹Labs. NEC, Japan ²Research Organization for Information Science & Technology, Japan

³Dpto. Fisica de Materiales, Facultad de Qumicas U. Pais Vasco, International Physics Center, USA ⁴Michigan State University, USA).

11:30 ~ 11:45 O 15 : "Photoluminescence from Single Walled Carbon Nanotubes", P. Finnie¹, Y. Homma², J. Lefebvre¹ (¹National Research Council, Canada ²NTT Basic Research Laboratories, Japan).

11:45 ~ 12:00 O 16 : "Annealing of Irradiation-Induced and Native Defects In Carbon Nanotubes", A.V. Krasheninnikov¹, K. Nordlund¹, P.O. Lehtinen², A.S. Foster², A. Ayuela² and R.M. Nieminen² (¹University of Helsinki, Finland ²Helsinki University of Technology, Finland).

12:00 ~ 12:30 Concluding remarks