




SCIENTIFIC PROGRAM

Hour	Sunday 18	Monday 19	Tuesday 20	Wednesday 21	Thursday 22	Friday 23	Saturday 24
08:50-09:00		Opening Ceremony		 TOUR SAN MIGUEL ALLENDE GTO 			
09:00-09:40		A1 (keynote)			I1 (keynote)	L1 (invited)	P1 (invited)
09:40-10:10		A2 (invited)	E1 (invited)		I2 (invited)	L2 (invited)	P2 (invited)
10:10-10:40		A3 (invited)	E2 (invited)		I3 (invited)	L3 (invited)	P3 (invited)
10:40-11:00		Coffee Break			Coffee Break		
11:00-11:30		B1 (invited)	F1 (invited)		J1 (invited)	M1 (invited)	Q1 (contributed)
11:30-12:00		B2 (invited)	F2 (invited)		J2 (invited)	M2 (invited)	Concluding Remarks
12:00-14:00		Conference Lunch			Conference Lunch		
14:00-14:15	Registration	Poster++ Talk C	Poster++ Talk G		 City Lunch and Tour of Downtown SLP Callejoneada. Mezcal shots!!		Poster++ Talk N
14:15-14:30		Poster+ Oral Session C	Poster+ Oral Session G			Challenges and Future of NT Research and Technology.	Poster+ Oral Session N
14:30-16:00		Poster Session C	Poster Session G	Presentations by Industry, Research and Funding Organizations, followed by a panel discussion.		Poster Session N	
16:00-16:30		Coffee Break		Coffee Break			
16:30-16:45		Poster++ Talk D	Poster++ Talk H	Poster++ Talk O			
16:45-17:30		Poster+ Oral Session D	Poster+ Oral Session H	Poster+ Oral Session O			
17:30-19:00		Poster Session D	Poster Session H	Poster Session O			
19:00-22:00		Welcome Party		Dinner			

- Accompanying person fee includes: Welcome Cocktail on Sunday, Conference Dinner on Tuesday, Conference Tour to San Miguel Allende on Wednesday and City tour and lunch on Saturday.

Individual Contributions:

Monday Morning Invited Session A

Growth and Properties of Carbon Nanotubes

1. ["Large scale production of carbon nanotubes and their current application"](#)
by Morinobu Endo
2. ["In Situ Kinetics Measurements of Carbon Nanotube Array Growth During Chemical Vapor Deposition"](#)
by David B. Geohegan
3. ["Atomic-scale imaging of carbon nanofiber growth"](#)
by Stig Helveg

Monday Morning Invited Session B

Growth of Carbon Nanotubes

1. ["Molecular Dynamics Simulations of Single-Walled Carbon Nanotube Nucleation"](#)
by Kim Bolton

2. ["CVD Grown Carbon Nanotubes: From Synthesis to Applications"](#)
by [Jie Liu](#)

Monday Afternoon Contributed Session C

(Oral **Poster++** presentations shown in **RED**)

1. ["Selective synthesis of double-walled carbon nanotubes by catalytic chemical vapor deposition of alcohol on mesoporous silica"](#)
by [P. Ramesh, T. Okazaki, R. Taniguchi, J. Kimura, T. Sugai and H. Shinohara](#)

CVD Synthesis of Carbon Nanotubes I

2. ["A Novel Aerosol Method for Single Walled Carbon Nanotube Synthesis"](#)
by [Albert G. Nasibulin, Anna Moisala, Hua Jiang, David P. Brown, Esko I. Kauppinen](#)
3. ["Aerosol-Based Synthesis of Carbon Nanotubes"](#)
by [Kirsten Edgar, and John L. Spencer](#)
4. ["Enhance of Methane Conversion for SWCNT Syntheses by BET Measurements"](#)
by [G.N. Ning, F. Wei, G.H. Luo, Y. Jin](#)
5. ["CVD Synthesis of Single-Wall Carbon Nanotubes from Ethanol"](#)
by [G. Ortega-Cervantez, G. Rueda-Morales and J. Ortiz-L eez](#)
6. ["Synthesis of carbon nanotubes using an oxy-acetylene combustion flame method"](#)
by [H. Okuno, J.-F. Despres, A. Palnichenko, J.-P. Issi and J.-C. Charlier](#)
7. ["Synthesis and characterization of high-quality double-walled carbon nanotubes using catalytic chemical vapor deposition method"](#)
by [S. H. Lee, S. I. Jung, C. B. Kong, T. J. Lee, S. K. Choi, M. H. Park, C. W. Yang, C. Y. Park, C. J. Lee](#)
8. ["Large bundles of triple-walled carbon nanotubes"](#)
by [Yu Hao, Zhang Qunfeng, Ning Guoqing, Wang Qixiang, Luo Guohua, Wei Fei](#)
9. ["Molecular dynamics study of catalytic ability of transition metals in nucleation process of SWNTs"](#)
by [Yasushi Shibuta and Shigeo Maruyama](#)
10. ["Atomic scale modelization of the nucleation of C-SWNT"](#)
by [H. Amara, C. Bichara, J.P Gaspard, F. Ducastelle](#)
11. ["Spatial Distributions of Metal Atoms During Carbon SWNTs Formation: Measurements and Modelling"](#)
by [M. Cau, N. Dorval, B. Attal-Tr 髣out, J.L. Cochon, A. Loiseau, S. Farhat, I. Hinkov, C.D. Scott](#)
12. ["Localized Lateral Growth of Single-Walled Carbon Nanotube from Catalyst Mixed SOG"](#)
by [H-H Wang, P-Y Lo, J-H Wei, M-J Lai, M-J Kao, M-J Tsai](#)
13. ["Synthesis of CNTs from coal gas by CVD method"](#)
by [Yuliang An, Jieshan Qiu](#)

14. ["CCVD Synthesis of Carbon Nanotubes from \(Mg, Co, Mo\)O Catalysts"](#)
by E. Flahaut, A. Peigney, and Ch. Laurent
15. ["Thermal CVD of CNTs from Fe/Mo Catalysts: Morphology Transitions Mediated by Gas Temperature and Substrate Topography"](#)
by Anastasios John Hart, Alexander H. Slocum
16. ["Ultra-Long Carbon Nanotubes by Chemical Vapour Deposition"](#)
by Lianxi Zheng, Michael J. O'Connell, Stephen K. Doorn, XiaoZhou Liao, Mark A. Hoffbauer, Bobbi J. Roop, Quanxi Jia, Jie Liu, and Yuntian T. Zhu
17. ["Large-scale synthesis of single-walled carbon nanotubes by catalytic decomposition of ethylene"](#)
by S. H. Lee, S. I. Jung, C. B. Kong, J. H. Cho, H. J. Kang, S. H. Seo, H. J. Seo, and C. J. Lee
18. ["CNT-Ropes synthesized in CVD on TEOS substrate"](#)
by G. Pinzon, M. Baquero, Y. Hernandez, G. Holguin, F. Gomez-Baquero
19. ["Continuous Fabrication of Amorphous Carbon Nanotubes by Fluidized-bed Reactor"](#)
by T. Setoguchi, Y. Yokomichi, H. Nakaoka, and Y. Fujioka
20. ["Fluidized-bed CVD synthesis of carbon nanotube on Co-Mo/MgO"](#)
by M.M.Akbarnejad, N.Manteghian, E.Ahmadvand and A.M.Rashidi
21. ["Study on the Carbon Nanotubes Growth by Using Bimetallic Film as the Catalyst"](#)
by C.Y. Chen, C.C. Chiu and N.H. Tai
22. ["Study of carbon nanotubes growth on different metal underlayers"](#)
by R.E.Morjan, M.S.Kabir, O.Nerushev, E.E.B.Campbell
23. ["CVD synthesis of carbon nanotube on Co-Mo/MgO using nanoporous MgO"](#)
by A.M. Rashidi, A.A. Khodadadi, Y.Mortazavi, M.M. Akbarnejad
24. ["Monodispersity of double-walled carbon nanotubes in some bundles produced by CVD: An electron diffraction study"](#)
by J.F. Colomer, L. Henrard, Ph. Lambin, G. Van Tendeloo, and P. Launois
25. ["The Continued Growth of Single Wall Carbon Nanotubes from Seed Crystals"](#)
by Yuhuang Wang, Myung Jong Kim, Hongwei Shan, Carter Kittrell, Sivaram Arepalli, David B. Geohegan, Robert H. Hauge, Richard E. Smalley
26. ["Low Temperature Growth of Multi Walled Carbon Nanotubes by Chemical Vapor Deposition method"](#)
by Akio Kawabata, Masahiro Horibe, Daiyu Kondo, Mizuhisa Nihei, and Yuji Awano
27. ["Growth of Millimeter-Long and Vertically-Aligned Multi-Walled Carbon Nanotubes by Grid-Inserted Plasma-Enhanced CVD"](#)
by Y. Kojima, S. Kishimoto, Y. Ohno, and T. Mizutani
28. ["Production and Growth Mechanism of Individually □ and Vertically 泡 aligned Single-Walled Carbon Nanotubes under the Plasma-Enhanced Chemical Vapor Deposition Method"](#)
by T. Kato, G.-H. Jeong, T. Hirata, R. Hatakeyama, K. Tohji
29. ["Low-temperature growth of vertically aligned carbon nanotubes using chemical vapor deposition method"](#)
by Lujun Pan, Goichi Takeda, Takuo Nishiyama, Seiji Akita and Yoshikazu Nakayama
30. ["Studies on the production of aligned carbon nanotube mats"](#)
by I.A. Kinloch, J. Boratynski, C. Buchel, I.Y. Antypas, J. Fields, J. Summer, K.K.K. Koziol, C. Singh, A. H. Windle, C. Leung, Y. Chen and R.E. Palmer, M. Nolte, W. Bauhofer and K. Schulte

31. ["Vertically Aligned Peapod Formation with Position-controlled Multi-walled Carbon Nanotubes and their Electrical Properties"](#)
by Daiyu Kondo, Masahiro Horibe, Akio Kawabata, Mizuhisa Nihei, and Yuji Awano
32. ["Growth of Aligned Carbon Nanotubes by Microwave Heating"](#)
by Oxana Vasilievna Kharissova, Humberto Terrones
33. ["Control of carbon nanotube density by using the catalyst precipitation on the metal substrate"](#)
by C.C. Chiu and N.H. Tai
34. ["Nano-fabrication of hexagonally ordered carbon nanotube multi-layer"](#)
by Young Koan Ko, Ki Young Kwon, Do Hwan Choi, Hee-Tae Jung
35. ["Patterned growth of carbon nanotubes synthesized by Fe-catalyzed chemical vapour processes on different substrates"](#)
by Vincenzo Vinciguerra, Francesco Buonocore, Maria Fortuna Bevilacqua, Salvo Coffa, Renato Angelucci, Rita Rizzoli, Franco Corticelli
36. ["Role of Metal-Support Interaction in the CVD Growth of Carbon Nanotubes Studied with Size-Controlled Nanoparticles"](#)
by H. Ago, K. Nakamura, S. Imamura, M. Tsuji
37. ["Investigation on Carbon Nanotube Growth by Site Selective CVD with Nickel Catalyst"](#)
by R. Angelucci, R. Rizzoli, S. Guerri, A. Parisini, F. Odorici, L. Malferrari, M. Cuffiani
38. [WITHDRAWN](#)
39. ["MOCVD-synthesis with organogermanium precursors of Ge-filled carbon nanotubes covered with "diamond-like carbon" films and their electron field emission properties"](#)
by G.A.Domrachev, K.B.Zhogova, A. M.Ob`edkov, B. S.Kaverin, S. N.Titova, A.A. Zaitsev, A.S.Strakhov, E.G. Domracheva, M.V.Kruglova
40. ["CVD nucleation and growth mechanisms of aligned films of carbon nanotubes"](#)
by CS Cojocar, O. Ersen, B. Vigolo, J. Mane-Mane, P. Parent, K. Lafon, F. Le Normand

Monday Afternoon Contributed Session D

(Oral **Poster++** presentations shown in **RED**)

1. ["Direct Spinning of Carbon Nanotube Fibres from Chemical Vapour Deposition"](#)
by Ya-li Li, Ian A. Kinloch, Marcelo Motta and Alan H. Windle

CVD Synthesis of Carbon Nanotubes II

2. ["Low Temperature Peapod Synthesis in Single-Walled Carbon Nanotubes Using Supercritical Fluids"](#)
by David A. Britz, Andrei N. Khlobystov, Jiawei Wang, S. Adam O'Neill, Gavin W. Morley, Kyriakos Porfyrakis, T. John S. Dennis, Martyn Poliakoff, Arzhang Ardavan and G. Andrew D. Briggs

3. ["Questions of dynamics, statistics and criteria of successful formation of the single-walled carbon nanotubes \(SWNT\) in the fullerenes \(plasma\)\(C-60\)"](#)
by *G.A. Skorobaqat'ko, V.I. Maslov*
4. ["Naturally short carbon MWNTs as an upcoming commercial product"](#)
by *Vladislav A. Ryzhkov*
5. ["Synthesis of carbon nanocoils using Fe-In-Sn-O powder catalysts"](#)
by *Nobuharu Okazaki, Toshiki Goto, Shoji Hosogawa, and Yoshikazu Nakayama*
6. ["Mechanistical studies of SWCNT formation from CO and ethanol in laminar flow aerosol reactor"](#)
by *A. Moisala, A.G. Nasibulin, D.P. Brown, H. Jiang, E.I. Kauppinen*
7. ["Effect of forced convective heat transfer on formation of carbon nanoparticles in submerged arc discharge"](#)
by *Tawatchai Charinpanitkul, Noriaki Sano, Tatsuo Kanki, Wiwut Tanthapanichakoon*
8. ["Mass-production and purification of high-crystallinity single-wall carbon nanotubes by electric-arc technique"](#)
by *X. Zhao, S. Inoue, T. Suzuki, T. Kadoya, Y. Ando*
9. ["MOCVD grown carbon nanotubes on porous alumina - optimization towards field emission applications"](#)
by *G. M. Iler, J. Engstler, D. Lysenkov, J.J. Schneider*
10. ["Optimization of carbon nanotubes grown by thermal chemical vapor deposition for field emitters"](#)
by *B.Y. Kong, J.Y. Seon, S.J. Jung, S.H. Lee, N.S. Lee, H.J. Kim, I.T. Han, and J.M. Kim*
11. ["Synthesis of Amorphous Carbon Nanotubes and Their Properties"](#)
by *Y. Yokomichi, H. Nishino, H. Nakaoka, R. Nishida, M. Yamada, M. Sakai, T. Matsui*
12. ["Single-Walled Carbon Nanotubes by Microwave Plasma-Chemical Vapor Deposition"](#)
by *M. Maschmann, Amit Goyal, Zafar Iqbal, Tim Fisher, Roy Gat*
13. ["Methane cracking on CoMo/SiO₂ catalysts for carbon nanotubes formation"](#)
by *Irma Calette, Tom Viveros*

Non-CVD Synthesis of Nanotubes

14. ["Synthesis of Single-Wall Carbon Nanohorns and Nanotubes by Arc Discharge in Water"](#)
by *N. Sano, J. Nakano, and T. Kanki*
15. ["Study on the properties of CNTs and the influence of carbon cathode electrode in a dc arc discharge process"](#)
by *H.H. Kim, H.J. Kim*
16. ["Mechanism of Carbon Transfer in the Arc Synthesis of DWNTs"](#)
by *A.P. Moravsky, R.O. Loutfy*
17. ["Surface carbon transport on metal catalysts: a low activation energy pathway for low temperature growth of carbon nanotubes"](#)
by *S. Hofmann, G. Csanyi, A. C. Ferrari, C. Ducati, B. Kleinsorge, J. Robertson*
18. ["Y/Ni And Ru/Fe Catalytic Route to Carbon Nanotube Synthesis by Hydrogen Arc Discharge"](#)

- by [Z. Martinez, F. Hidalgo, J. Ortiz-Lopez, J.S. Arellano-Peraza, C. Mejia-Garcia, J. Chacón-Carvayar](#)
19. **"Catalytic nanotube formation from amorphous carbon rod prototyped using beam-induced deposition"**
by [Masahiko Ishida, Toshinari Ichihashi, Jun-ichi Fujita, and Yukinori Ochiai](#)
20. **"Synthesis of Carbon Nanotubes with Colloidal Solution of Co/Mo and Fe in Organic Solvents"**
by [N.J. Jeong, S.J. Lee, K.S. Song, I.S. Ryu, S.P. Yu and Y.S. Seo](#)
21. **"Synthesis of Peapods Directly on Substrates"**
by [Y. Ohno, Y. Kurokawa, T. Shimada, Y. Murakami, A. Sakai, K. Hiraga, M. Ishida, T. Okazaki, S. Kishimoto, S. Maruyama, H. Shinohara, and T. Mizutani](#)
22. **"Synthesis of aligned carbon nanotube on anodic aluminum oxide via channel guiding effect"**
by [Ju-Hye Ko, Soo-Hwan Jeong, Donghun Kang, Eunju Bae, and Wanjun Park](#)
23. **"Thermal and Plasma Systems for SWCNT and MWCNT Deposition"**
by [R. Gat](#)
24. **"Carbon Nanotubes Formed in a Composite Material"**
by [M. Teresa Martínez-Martínez, Mauricio Terrones-Maldonado and Humberto Terrones-Maldonado](#)

Formation and Characterization of Unusual Nanostructures

25. **"Influence of catalyst chemical state in carbon nanotube growth investigated by in situ x-ray photoemission spectroscopy"**
by [T. de los Arcos, M. G. Garnier, J. W. Seo, L. Forró, V. Thommen, D. Mathys, and P. Oelhafen](#)
26. **"Vacancies in graphene and single-walled carbon nanotubes"**
by [Yuchen Ma, P. O. Lehtinen, A. S. Foster and R. M. Nieminen](#)
27. **"Porosity control of carbon nanotubes using Co-Mo/MCM-41 as a template"**
by [A.M. Rashidi, M.M. Akbarnejad, A.A. Khodadadi, Y.Mortazavi, M. A.Attarnejad,](#)
28. **"Synthesis of large scale and aligned carbon nanotubes array under an electric field"**
by [C.M. Li, C.C. Chiu, N.H. Tai](#)
29. **"Use of negative ion source for production of endohedral complexes of fullerene-like structures by ion implantation technique"**
by [K.B. Zhogova, A.G. Zvenigorodskij, G.A. Domrachev, B.S. Kaverin, S.N. Abramovich, D.S. Kapustin, B.V. Ferapontov, V.S. Gritsenko, Ye.V. Zimin, M.S. Shtarev](#)
30. **"Ion Bombardment Effects on Carbon Nanotube Formation in Strongly Magnetized Glow-Discharge Plasma"**
by [T. Kaneko, H. Matsuoka, T. Hirata, R. Hatakeyama, and K. Tohji](#)
31. **"Self-organization of Fe-C-system with different content of components"**
by [G.A. Domrachev, K.B. Zhogova, L.G. Domracheva, A.I. Lazarev, G.V. Markin, A.M. Ob'yedkov, B.S. Kaverin, E.G. Domracheva, E. Huipe Nava, V.L. Karnatsevich](#)
32. **"Formation of fullerenes under soft oxidation of sh-MWNTs following intercalation with bromine"**
by [Vladislav A. Ryzhkov](#)

33. ["Gas-Phase Growth of Carbon Nanocoils using Fe-In-Sn-O fine-particle catalysts"](#)
by [Takeshi Nagasaka, Hiroyuki Tsuchiya, Yugo Higashi, Toshiki Goto, Keisuke Shiono, Nobuharu Okazaki, Osamu Suekane, and Yoshikazu Nakayama](#)

Tuesday Morning Invited Session E

Chirality-Selective Growth Carbon Nanotubes

1. ["\(6,5\) and \(7,5\) nanotubes produced by CVD over Co-Mo catalysts"](#)
by [Daniel E. Resasco](#)
2. ["CVD Synthesis of Single-Walled Carbon Nanotubes from Alcohol"](#)
by [Shigeo Maruyama](#)

Tuesday Morning Invited Session F

Characterization of Carbon Nanotubes

1. ["Recent Advances in Synthesis and Characterization of SWCNTs Produced by Laser Oven Process"](#)
by [Sivaram Arepalli](#)
2. ["Nanotubes in B-C-N and other selected inorganic systems as prospective functional materials"](#)
by [Dmitri Golberg](#)

Tuesday Afternoon

Contributed Session G

(Oral **Poster++** presentations shown in **RED**)

1. ["A one-dimensional semiconductor crystal with differentially rotating atomic layers encapsulated within a single-walled carbon nanotube"](#)
by [J. Sloan, R. Carter, A. I. Kirkland, R. R. Meyer, J. L. Hutchison and M. L. H. Green](#)

Raman Characterization of Nanotubes

2. ["Resonance Raman and optical intensity of isolated single-wall carbon nanotube"](#)
by [R. Saito, A. Gruneis, J. Jiang, G. Ge. Samsonidze, A. Jorio, M. A. Pimenta, A. G. Souza-Filho, G. Dresselhaus, M. S. Dresselhaus](#)
3. ["Resonance Raman spectra of isolated single-wall carbon nanotubes"](#)
by [H. Kataura, T. Ueno, Y. Miyata, S. Okubo, S. Suzuki, and Y. Achiba](#)
4. ["Optical Transitions Energies for HiPco Carbon Nanotubes Measured by Resonance Raman Spectroscopy"](#)
by [C. Fantini, A. Jorio, M. Souza, A. J. Mai Jr., M. S. Strano, M. S. Dresselhaus and M. A. Pimenta](#)

5. **"Raman Studies of Individualized, Aggregated, and Ultralong Carbon Nanotubes"**
by Stephen K. Doorn, Michael J. O'Connell, Saujan Sivaram, Michael S. Strano
6. **"Single and Double Resonance Raman G-band Processes in Carbon Nanotubes"**
by M. Souza, A. Jorio, C. Fantini, B. R. A. Neves, M. A. Pimenta, R. Saito, A. Ismach, E. Joselevich, V. W. Brar, Ge. G. Samsonidze, G. Dresselhaus and M. S. Dresselhaus
7. **"Step-like dispersive Raman modes in carbon nanotubes"**
by M. A. Pimenta, C. Fantini, M. Souza, A. Jorio, L. O. Ladeira, A. G. Souza-Filho
8. **"Resonant Raman studies on double-wall carbon nanotubes by high-temperature pulsed-arc discharge"**
by T. Shimada, T. Sugai, C. Fantini, M. Souza, L. G. Cancado, A. Jorio, M. A. Pimenta, R. Saito, A. Grueneis, G. Dresselhaus, M. S. Dresselhaus, Y. Ohno, T. Mizutani, and H. Shinohara
9. **"Growth and Raman spectra of aligned double-walled carbon nanotube long ropes with narrow diameter distribution"**
by Wencai Ren, Hui-Ming Cheng
10. **"Fluorescence and Resonant Raman study of double walled carbon nanotubes (DWNTs)"**
by Anna K. Swan, Yan Yin, Bennett B. Goldberg, M. Selim Unlu, Claudio Chamon, Wolfgang Bacsa, Revathi Bacsa
11. **"Electron Energy Loss and Resonant Raman Spectroscopy of Single Wall Boron Nitride Nanotubes"**
by R. Arenal de la Concha, O. Stephan, A. Ferrari, D. Taverna, S. Reich, A. Rubio, A. Loiseau
12. **"The interior of carbon nanotubes studied by Raman spectroscopy and electron spin resonance on N@C₆₀@SWCNT"**
by Ferenc Simon, Rudolf Pfeiffer, Florian Hasi, Matthias Holzweber, Christian Kramberger, Hans Kuzmany
13. **"Theory of the tangential G-band feature in the Raman spectra of metallic carbon nanotubes"**
by S. M. Bose, S. Gayen and S. N. Behera

Characterization of Nanotubes

14. **"NASA-JSC protocol for the characterization of single-wall carbon nanotube material quality"**
by Sivaram Arepalli, Pavel Nikolaev, Olga Gorelik, Victor G. Hadjiev, Williams Holmes, Rodrigo Devivar, Bradley Files, and Leonard Yowell
15. **"EXAFS study of local structure of Rb in single-walled carbon nanotubes"**
by J-L. Bantignies, R. Aznar, J-L. Sauvajol, L. Ducleaux, L. Alvarez
16. **"Nanoauger spectroscopy study of thin film metal catalyst transformation for the production of multi-wall and single-wall carbon nanotubes by chemical method deposition"**
by R. G. Lacerda, K. B. K. Teo, F. Wyczisk, P. Legagneux, A. S. The, M. H. Yang, S. H. Dalal, D. A. Jefferson, N. L. Rupesinghe, D. Roy, M. Chhowalla, G. A. J. Amaratunga and W. I. Milne

17. **"Microscopic and spectroscopic studies of highly nitrogen-doped carbon nanotubes"**
by *M. Castignolles, M. Glerup, S. Enouz, P. Bernier, A. Loiseau, and O. Stéphan*
18. **"Image simulation of carbon nanotubes"**
by *T. Hayashi, H. Muramatsu, Y.A. Kim, H. Kawakami, M. Kobayashi, and M. Endo*

Nanotube Dispersion and Purification

19. **"Manipulating SWNTs via Dielectrophoresis: Separation and Deposition"**
by *R. Krupke*
20. **"Dielectrophoretic separation of metallic and semiconducting SWNT"**
by *T. Lutz and K.J. Donovan*
21. **"Extraction of semiconducting CNTs by repeated dielectrophoretic filterings"**
by *D. S. Lee, D. W. Kim, H. S. Kim, S. W. Lee, S. H. Jhang, E. E. B. Campbell, Y. W. Park*
22. **"Multi-Step Purification of Single-Wall Carbon Nanotubes"**
by *Ya-Qiong Xu, Haiqing Peng, Zhenning Gu, Yuhuang Wang, Robert H. Hauge and Richard E. Smalley*
23. **"Novel Methods of Processing Carbon Nanotubes"**
by *Walter V. Cicha, Yun Li, Patrick Malenfant, and Davide Simone*
24. **"Solutions of single well carbon nanotubes"**
by *Alain Penicaud*
25. **"Characterization and Processing of Single-Walled Carbon Nanotubes Dispersions"**
by *Yael Dror, Wael Salalha, Rafail L. Khalfin, Yachin Cohen, Alexander L. Yarin, Eyal Zussman, Rachel Yerushalmi-Rozen, Wim Pyckhout-Hintzen*
26. **"Effects of Solubility Parameters on Ultrasonic Dispersions of Singlewall Carbon Nanotubes"**
by *Hyeong Taek Ham, Yeong Suk Choi, Mu Guen Chee, In Jae Chung*

Chemical Modification of Nanotubes

27. **"Electrochemical modification of individual carbon nanotubes"**
by *Kannan Balasubramanian, Alicia Maroto, Roman Sordan, Marko Burghard, Klaus Kern*
28. **"Functionalization and Binding Techniques for Alignment Using of Carbon Nanotubes"**
by *Sandeep Kumar, Lalit M. Bhardwaj, R.P. Bajpai*
29. **"Covalent Attachment of DNA Oligonucleotide and Hybridization on the Patterned Single-Walled Carbon Nanotube Film"**
by *Dae-Hwan Jung, Byung Hun Kim, Young Koan Ko, Sang Yup Lee, Soung Hee Park, Hee-Tae Jung*
30. **"Optical Studies of GT-DNA-Nanotube Hybrids"**
by *S. G. Chou, H. B. Ribeiro, A. P. Santos, C. Fantini, Ge. G. Samsonidze, A. Jorio, F. Plentz, G. Dresselhaus, M. S. Dresselhaus, M. Zheng, A. K. Swan, M. S. Unlu, B. B. Goldberg, D. Nezich, E.B. Bands, M.A. Prmenta, G.B. Onaa, E. Semke*
31. **"Formation of Carbon-Nanotube/DNA Composite Materials"**
by *T. Okada, T. Kaneko, R. Hatakeyama, and K. Tohji*

32. **"Identification and characterization of a peptide aptamer for single-wall carbon nanohorn"**
by D. Kase, J. L. Kulp III, J. Zhu, M. Yudasaka, J. S. Evans, S. Iijima, K. Shiba
33. **"Derivatization of Hydroxyl Groups Attached to Carbon Nanotube Surface"**
by C. A. Furtado, F. N. Paschoal, A. A. Okuma, A. P. Santos, L. P. S. Pimenta, R. P. F. Gil, R. B. Alves, U. J. Kim, P. C. Eklund
34. **"Structural and Vibrational Properties of Alkali-Metal Atoms Adsorbed Single-walled Carbon Nanotubes: A Density Functional Study"**
by Brahim Akdim, Xiaofeng Duan, and Ruth Pachter
35. **"How and Where Lithium Atoms Are Adsorbed on Carbon Nanotubes"**
by Juan S. Arellano
36. **"Attachment of Metal Nanoclusters to Single-Walled Carbon Nanotubes"**
by Valerie C. Moore, Christopher A. Dyke, Michael P. Stewart, Elizabeth A. Whitsitt, Robin E. Anderson, Douglas C. Ogrin, Ramon Colorado, Andrew R. Barron, James M. Tour, Robert H. Hauge, Richard E. Smalley
37. **"Iodine adsorption in carbon nanotubes and hypervalence"**
by Jean-Pierre Gaspard and Celine Otjacques
38. **"Binding energies to nanotube sidewalls"**
by Holger F. Bettinger
39. **"Functionalisation of carbon nanotubes in a plasma"**
by N. O. V. Plank and R. Cheung
40. **"Two Phases of Ar And Kr Confined Inside Open Single Walled Carbon Nanotubes"**
by Zygmunt J. Jakubek and Benoit Simard
41. **"Functionalisation of Open Ends in Single-Wall Carbon Nanotubes"**
by Andrei Gromov, Raluca E. Morjan, Staffan Dittmer and Eleanor E. B. Campbell
42. **"Mechanical Properties and Melt-State Rheology of Polymer-Grafted Single-Wall Nanotube Composites"**
by G. Viswanathan, H. Yang, C. Y. Ryu and P. M. Ajayan
43. **"Polystyrene-grafted in N-doped multi-walled carbon nanotubes by nitroxide-mediated radical polymerization"**
by M. Dehonor, M. Terrones, A. González-Montiel, K. Masenelli-Varlot, J.Y. Cavallari, Ana Laura Elias-Arriaga, Julio Rodríguez-Manzo, Adalberto Zamudio, Samuel Baltazar and H. Terrones
44. **"Raman and XPS analysis of dielectric barrier discharge (DBD) functionalisation of pre-chemical-activated and non-activated MWCNTs"**
by T.I.T Okpalugo, P. Papakonstantinou, H. Murphy, J. McLaughlin, N.M.D Brown
45. **"Nanotube Characterization through Radial Distribution Functions: A Possible Way to Determine Tube Chirality Using Neutron Diffraction"**
by P. Ojeda-May, D. Hoffman, M. Terrones, H. Terrones, T. Proffen, and A.K. Cheetham

Tuesday Afternoon Contributed Session H

(Oral **Poster++** presentations shown in **RED**)

1. **"Mo₆S_{4.5}I_{4.5} Nanowires: High Resolution TEM Observations and Electronic Structure Calculations"**
by *Valeria Nicolosi, Savas Berber, Jonathan N. Coleman, Jeremy Sloan, David Tomanek, Dragan Mihailovic, and Werner J. Blau*

Non-Carbon Nanotubes

2. **"Single-walled hetero carbon nanotubes"**
by *M. Glerup, V. Krstic, S. Roth, J. Steinmetz, P. Bernier, O. Støerhan*
3. **"Endohedral Silicon Nanotubes as the Thinnest Silicide Wires?"**
by *Traian Dumitrica, Ming Hua, and Boris I. Yakobson*
4. **"Synthesis and characterisation of SiC- nanorods by CVD"**
by *A. Leonhardt, H. Liepack, J. Thomas, K. Biedermann*
5. **"Structure and stability of AIP nanotubes"**
by *Sergey Lisenkov*
6. **"Sedimentation and Purification Studies on Mo₆S_{4.5}I_{4.5} Nanowire Bundles in Solution"**
by *Valeria Nicolosi, Seán O'Flaherty, Daniel Vrbanic, Ales Mrzel, Dragan Mihailovic, Jonathan N. Coleman and Werner J. Blau*
7. **"Study and Formation to Molybdenum Disulfide Nanotubes"**
by *V. Lavayen, N. Mirabal, M. A. Santa Ana, E. Benavente, G. Gonzalez*

Nanotube-Based Composites

8. **"Preparation and Characterisation of Carbon Nanotube/Polycarbonate Composites"**
by *V. Aboutanos, M. Holzinger, K. Schierholz and P. Bernier*
9. P74. **"Investigation of Carbon Nanotubes/Polyester Composites"**
by *Yi Huang, Zhifei Li, Dongliang Tao, Xiuqin Qi, Weiping Zhou, Guohua Luo, Fei Wei*
10. **"Nanotube Dispersion in Nanotube Composites"**
by *Silvia Giordani, Shane D. Bergin, Anna Drury, Jimh N Mhuircheartaigh, Alexander Fleming, Andrew I. Minett, Janos B. Nagy, Hans Kuzmany, Daniel E. Resasco, Jonathan N. Coleman and Werner J. Blau*
11. **"Achieving Electrical Percolation in Polymer-Carbon Nanotube Composites"**
by *M. Shaffer, Jan K.W. Sandler, Alan H. Windle, Christian A. Martin, Wolfgang Bauhofer, Karl Schulte, S. Rahatekar, J. A. Elliott*
12. **"Mechanism for Mechanical Reinforcement in Nanotube-Polymer Composites"**
by *A. Wall, J. N. Coleman and M. S. Ferreira*
13. **"Thermal Conductivity of Aligned Carbon Nanotube-Polymer Composites"**
by *I.N. Ivanov, A. A. Puzosky, G. Eres, M. J. Lance, H. Wang, S. Jesse, and D. B. Geohegan*
14. **"Atomic Scale Characterisation of Carbon Nanotubes and Interfaces in their composites"**
by *N.Y. Jin-Phillipp, M. Kelsch, M. Sycha, C. Scheu, K. Hahn, F. Lupo, N. Grobert, and M. Ruehle*
15. WITHDRAWN
16. **"Reinforcement of Polymers with Carbon Nanotubes: The Role of Nanotube Surface Area"**

- by M. Cadek, J. N. Coleman, K. P. Ryan, V. Nicolosi, A. Fonseca, J. B. Nagy, F. Beguin and W. J. Blau*
17. **"Synthesis and Properties of Polyaniline - Carbon Nanotube Composites"**
by D.A. Makeiff, M.N. Diep, M.C. Kopac, and T.A. Huber
 18. **"Molecular dynamics simulations of boron-nitride nanotubes embedded in amorphous silicon-boron-nitride matrices"**
by M. Griebel and J. Hamaekers
 19. **"Microstructural Investigations on Zirconium Oxide-Carbon Nanotube Composites"**
by F. Lupo, R. Kamalakaran, C. Scheu, M. R·le
 20. **"Carbon nanotube / Polymer composite from ATRP polystyrene grafted CN_x MWNT"**
by Benjamin Fragneaud, Karinne Massinelly-Varlot, Alfonso Gonzales, Mauricio Terrones, Jean Yves Cavaille, Ana Laura Elias-Arriaga, Julio Rodriguez-Manzo, Adalberto Zamudio, Samuel Baltazar and H. Terrones

Morphology and Application of Modified Nanotubes

21. **"Hydrogen Molecule in a Single Walled Nanotube: H-H Bond Length Analysis"**
by Raul Perez-Enriquez, German Campoy G., Raul Riera
22. **"Morphology of PEO Nanofibers Embedded by MWNTs through Electrospinning"**
by Weiping Zhou, Fei Wei, Guohua Luo
23. **"Fullerene Oligomer Peapods as Evidence for a Nanotest-tube"**
by David A. Britz, Andrei N. Khlobystov, Kyriakos Porfyraakis, Arzhang Ardavan, G. Andrew D. Briggs
24. **"Electric Detection of Kinase Assay Using MWCNT Nanoelectrode"**
by Jae Shin Lee, Seok Jae Lee, Jong Pil Park, Tae Jung Park, Do Hyun Kim, Sang Yup Lee, Jin Hee Kim, Seong Ku Kwon and Jeong O Lee
25. **"Virtual Nanomanipulator with Carbon Nanotube Nanotweezers"**
by Shigenobu Yamanaka, Seiji Akita, Shotato Mizooka, Takashi Okawa, Yoshikazu Nakayama
26. **"Controlled Placement of Single-Walled Carbon Nanotubes for Device Applications"**
by Indhira O. Maciel, Adelina P. Santos, Clascilia A. Furtado, Flávio Plentz
27. **"Carbon Nanotube Probed Positioning Encoder with Nanometer Resolution: Design and Kinematics"**
by Y. C. Lin, U. Y. Lin, C.C. Su, J.H. Hsu, N. K. Chang, S. H. Chang, Y. M. Chu, J. H. Wu, W. H. Wang
28. **"Electroplating of Carbon Nanotubes"**
by Ryo Tomuro, Yoshiaki Abe, Masahito Sano

Photo-Induced Reactions in Nanotubes

29. **"Selective Cap Opening in Carbon Nanotubes Driven by Laser-Induced Coherent Phonons"**
by Traian Dumitrica, Martin E. Garcia, Harald O. Jeschke, and Boris I. Yakobson

30. **"Light-Assisted Oxidation for Selective Removal and Remaining of Single-Wall Carbon Nanotubes"**

by M. Yudasaka, M. Zhang, Y. Miyauchi, S. Maruyama, S. Iijima

Thermal and Mechanical Properties of Nanotubes

31. **"Simulation Study on Thermal Conductivity of Carbon Nanotubes"**

by Masamitsu Kobayashi, Hideyuki Kawakami, Syogo Tejima, Yoong Ahm Kim, Takuya Hayashi, David Tomanek, Morinobu Endo

32. **"Thermal Measurement on a Multi Wall Carbon Nanotube"**

by L. Hao, L. Brown, J. Gallop, J. Macfarlane, L. Cohen

33. **"Irradiation-Induced Load Transfer in Single-Walled Carbon Nanotube Bundles And Multi-Walled Carbon Nanotubes"**

by M. Huhtala-Sammalkorpi, A. Krashennikov, K. Nordlund, J. Aittoniemi, A. Kuronen, S. Stuart and K. Kaski

34. **"High-Q Mechanical Oscillators Based on Carbon Nanotubes"**

by Brian Hunt, M. Bronikowski, D. Choi, J. Davis, L. Epp, D. Hoppe, E. Wong#, L. Guo, K. Hanson, A. Yin, M. Tzolov, J. Xu, D. Adam, R. Young

35. **"Mechanical Properties of Undulating Long Nanotubes under Axial Strain"**

by Syogo Tejima, Noejung Park, Savas Berber, Hisashi Nakamura, David Tomanek

36. **" Incipient Mechanical Yield in Carbon Nanotubes: Two Competing Atomistic Routes"**

by Traian Dumitrica, Ming Hua, and Boris I. Yakobson

37. **"Tribological Performances of Nanotubes"**

by F.Dassenoy, L.Joly-Pottuz, J.M.Martin, D. Mihailovic, T.Mieno

38. **"Structural stability of carbon Y-shaped rings"**

by D. Grimm, P. Venezuela, and A. Latgé

39. **"Deformation of a Carbon Cell under Hydrostatic Pressure using an Empirical Interatomic Potential"**

by G. Nieto Malag , J. Orozco Velazco, P. Rosendo Francisco

40. **"Single walled carbon nanotubes under pressure"**

by S. Baltazar-Rojas, A. H. Romero, J. L. Rodríguez-L ez, K. Lindenberg, R. Martonak

Atomic Structure of Carbon Nanotubes

41. **"Atomic Structures of Carbon Nanotubes"**

by N.Y. Jin-Phillipp, M. Ruehle, A. Fonseca and J.B. Nagi

42. **"Should BN nanostructures have line defects?"**

by S. Azevedo, M. S. C. Mazzoni, R. W. Nunes, H. Chacham

43. **"The Atomic Structure of Carbon Nanohorn Dahlia Particle at the Core: Numerical Simulations for Y-Junctions Formation"**

by Takazumi Kawai and Yoshiyuki Miyamoto

44. **"Intensity problem in single-walled carbon nanotubes"**

by S. Reich and C. Thomsen

45. **"A Review On The Properties (Mechanical, Optical, Electrical) and the Effect of Chirality on the Behavior of Carbon Nanotubes"**

by Katya Marinova SIMEONOVA and Ganka Marinova MILANOVA

46. ["Geometric Constraints in the Growth of Nanotube-Templated Polymer Monolayers"](#)
by [M. S. Ferreira and J. N. Coleman](#)

Thursday Morning Invited Session I

Interaction of Nanotubes with Photons

1. ["Carbon Nanotube Photophysics and Some Grand Challenges"](#)
by [Mildred S. Dresselhaus](#)
2. ["Characterization of Carbon Nanotubes by Raman and Novel Spectroscopic Techniques"](#)
by [Ado Jorio](#)
3. ["Photo-Cleaning and Carrier Decay in Nanotubes Explored by First-Principles Simulation Tool for Electron Ion Dynamics"](#)
by [Yoshiyuki Miyamoto](#)

Thursday Morning Invited Session J

Nanotubes for Optoelectronics

1. ["Optical and Time-Domain Spectroscopy of Single- and Double-Wall Nanotubes"](#)
by [Tobias Hertel](#)
2. ["Voltage-Translatable Infrared Source in a Carbon Nanotube Field-Effect Transistor"](#)
by [Marcus Freitag](#)

Thursday Afternoon

Session K

Challenges and Future of NT Research and Technology.
Presentations by Industry (Mitsubishi), Research Organizations (RIST), and Funding Agencies (NSF, CONACyT), followed by a panel discussion.

Friday Morning Invited Session L

Functionalized Nanotubes

1. ["Manipulating Carbon Nanotubes with Nucleic Acids"](#)
by [Ming Zheng](#)
2. ["Polymer-Nanotube Composite Materials: From Interactions to Applications"](#)
by [Jonathan N. Coleman](#)
3. ["Non covalent functionalization of carbon nanotubes for potential nanobiotechnology applications "](#)
by [Charles Mioskowski](#)

Friday Morning Invited Session M

Transport in Nanotubes

1. ["Flow Induced Voltage and Current in Carbon Nanotubes"](#)
by [Ajay K. Sood](#)
2. ["Quantum transport in defected and doped nanotubes"](#)
by [Jean-Christophe Charlier](#)

Friday Afternoon

Contributed Session N

(Oral **Poster++** presentations shown in **RED**)

1. ["Environment Effects on Optical Properties of Carbon Nanotubes"](#)
by [J.S. Lauret, C. Voisin, S. Berger, G. Cassabois, Ph. Roussignol, C. Delalande, A. Filoramo, L. Capes](#)

Transport in Nanotubes

2. ["Quantum transport in multiwall carbon nanotubes"](#)
by [B. Stojetz, E. Thune, E. Ljubovic, L. Forro, and Ch. Strunk](#)
3. ["Electronic Spectrum of Carbon- Nanotubes Rings under Electric Fields"](#)
by [M. Pacheco, Z. Barticevic, C. Rocha, A. Latg](#)
4. ["Electronic properties of suspended carbon nanotubes"](#)
by [A. Hassanien, M. Tokumoto, T. Shimizu, H. Tokumoto](#)
5. ["Electronic Measurements on Multiwalled Carbon Nanotubes"](#)
by [M. Ahlskog, P. Hakonen, A. Koshio, M. Yudasaka, S. Iijima](#)
6. ["Effect of increasing curvature in the electronic structure of carbon nanotubes: In situ UV-photoemission spectroscopy study"](#)
by [T. de los Arcos, M. G. Garnier, J. W. Seo, L. Forro, P. Oelhafen, C. Domingo, J. V. Garcia Ramos, and S. Sanchez Cortes](#)
7. ["Tunable Electric Property of Small-Radius Double-Walled Carbon Nanotube"](#)
by [Youngmi Cho, Gunn Kim, Hyoung Joon Choi, and Jisoon Ihm](#)
8. ["The Electrical Properties of Cs encapsulated Single-Walled Carbon Nanotubes"](#)
by [T. Izumida, G. -H. Jeong, T. Hirata, R. Hatakeyama, Y. Neo, H. Mimura, K. Omote, and Y. Kasama](#)
9. ["Electronic Properties of Nitrogen-Doped Carbon Nanotubes"](#)
by [L.G. Bulusheva, A.V. Okotrub, A.G. Kudashov](#)
10. ["Electrical conducting CNT/metal-interfaces"](#)
by [Joachim Glatz-Reichenbach, Jan-Henning Fabian, Eric Wapelhorst, Markus Abplanalp, Henning Fuhrmann, Sami Kotilainen](#)
11. ["Conducting properties of chemically doped single wall carbon nanotubes"](#)
by [Urszula Dettlaff-Weglikowska, Viera Skakalova, Ralf Graupner, Sung Ho Jhang, Lothar Ley, Yung Woo Park, Siegmur Roth, Savas Berber, and David Tomanek](#)

12. ["Functionalised carbon nanotubes: Transport properties"](#)
by A. Latg, D. Grimm, R. B. Muniz, and M. S. Ferreira
13. ["Extraordinary Mobility in Semiconducting Carbon Nanotubes"](#)
by M. S. Fuhrer, T. Durkop, T. Brintlinger, S. A. Getty and E. Cobas
14. ["Full Conductance Distribution and Fluctuation of Disordered Carbon Nanotube"](#)
by Wei Ren and Jian Wang
15. ["High-bias Electrical Transport in Semiconducting Single-wall Carbon Nanotubes"](#)
by Yung-Fu Chen, Gokhan Esen and M. S. Fuhrer
16. ["In Situ TEM Observation of Carbon Nanotubes under Electric Field"](#)
by Makoto OKAI, T. FUJIEDA, K. HIDAKA, T. Muneyoshi, T. Yaguchi
17. ["Electron Transmission through a Carbon Nanotube Perturbed by a Time Varying Potential"](#)
by P. Orellana, M. Pacheco
18. ["Electronic Properties of Individual Defects in Carbon Nanotubes and Semiconductor Nanowires by Scanning Probe Microscopy"](#)
by V. Meunier, S. V. Kalinin, J. Shin, A. P. Baddorf, R. J. Harrison
19. ["Engineered Multiwalled Carbon Nanotubes"](#)
by B. Bourlon, C Miko, L. Forro, D.C. Glattli, A. Bachtold

Field Electron Emission

20. ["Carbon Nanotubes as Electron Sources in Electron Microscopes"](#)
by Maya Doytcheva, Niels de Jonge
21. ["Field Emission Properties of Cup-Stacked-Type Carbon Nanofiber"](#)
by D. Yoshizawa, Y.A. Kim, T. Hayashi, T. Yanagisawa, M. Kobayashi, K. Osada, M. Endo
22. ["High Electron Field Emission from Side Wall Decorated MWNT"](#)
by M. Sveningsson, R- E. Morjan, O. Nerushev, E. E. B Campbell
23. ["High Current Density Field Emission from Carbon Nanotube Bundles"](#)
by Michael J. Bronikowski, Harish Manohara, Brian D. Hunt, Peter Siegel
24. ["Field Emission Properties of Capped and Open-Ended Carbon Nanotubes"](#)
by Hiroyoshi Tanaka, Yasumoto Konishi, Seiji Akita, Lujun Pan and Yoshikazu Nakayama
25. ["Carbon Nanotubes as Thermionic Emitters"](#)
by R. O. Loutfy, M. Samandi, A. Moravsky, and S. Strange
26. ["Carbon Nanotubes/Nanofibers and Metallic Nanowires for Field Emission Applications"](#)
by P. Legagneux, K.B.K. Teo, L. Vila and O. Groening
27. ["Dispersion Method of Carbon Nanotubes for Electron Source"](#)
by Masahiro FUJIKAWA, Toshio KOBAYASHI, Shuhei NAKATA, Takao SAWADA and Soichiro OKUDA
28. ["Camphor-Pyrolized Carbon Nanotubes May Be Efficient Field Emitters"](#)
by Mukul Kumar, Keita Kakamu, Tsugio Okazaki, Yoshinori Ando, Mineo Hiramatsu
29. ["Field Emission of Carbon Nanotubes Grown on Carbon Cloth"](#)
by J. Y. Huang, S. H. Jo, D. Z. Wang, W. Z. Li, K. Kempa and Z. F. Ren

Optical Properties and Optoelectronics

30. **"Circular Dichroism Spectra of Chiral Single-Wall Carbon Nanotubes"**
by *A. Sanchez-Castillo, Carlos E. Roman-Velazquez, Cecilia Noguez, L. Meza-Montes*
31. **"Polarized Incandescent Light Emission from Carbon Nanotubes"**
by *Peng Li, Kaili Jiang, Ming Liu, Qunqing Li, Jialin Sun and Shoushan Fan*
32. **"Low Temperature Photoluminescence of Surfactant-Suspended SWNT's"**
by *Henrique B. Ribeiro, Marcos A. Pimenta, Flavio Plentz*
33. **"Fluorescence and Optical Absorption of Single-Walled Carbon Nanotubes Synthesized from Alcohol"**
by *Yuhei Miyauchi, Satoshi Ogawa, Yasunori Hayashida, Shigeo Maruyama*
34. **"Local Photo-Electronic Transport in Individual Carbon Nanotubes"**
by *Alf Mews, Matteo Scolari, Kannan Balasubramanian, Tilman Assmus, Marko Burghard*
35. **"Optical Properties of Single Walled Carbon Nanotubes Deposited on Silicon"**
by *Vincenzo Vinciguerra, Francesco Buonocore, Maria Fortuna Bevilacqua and Salvo Coffa*
36. **"Ultrafast decay of excited carriers in carbon nanotubes: Time-dependent density functional approach"**
by *Yoshiyuki Miyamoto, Angel Rubio, and David Tomanek*
37. **"Surface-Modified Single-Walled Carbon Nanotubes for Optical Biosensors"**
by *Wei Zhao, Chulho Song*
38. **"Nonlinear and Optical Limiting Properties of Carbon Nanostructure and Polymer Dispersions"**
by *Sean M. O'Sullivan, Robert Murphy, Jonathan N. Coleman and Werner J. Blau*
39. **"Organic Photovoltaic Cells Based on Bulk Heterojunctions of Conjugated Polymers and Functionalized Single Walled Carbon Nanotubes"**
by *A. Urbina, P. de la Cruz, J. L. Delgado and F. Langa*
40. **"Low-Temperature Emission Spectra of Individual Single-Wall Carbon Nanotubes: Multiplicity of Subspecies within 'Single-Species' Nanotube Ensembles"**
by *Han Htoon, Michael J. O'Connell, Peter J. Cox, Stephen K. Doorn and Victor I. Klimov*
41. **"Diffracted Optical Near Field from Nanoapertures"**
by *J. Sumaya-Martinez, O. Olmos-Lopez, P. Rosendo-Francisco and F. Martinez-Rivera*

Friday Afternoon Contributed Session O

(Oral **Poster++** presentations shown in **RED**)

1. **"Tunneling Junctions Using Internanotube Spaces in Multiwalled Carbon Nanotubes"**
by *K. Tsukagoshi, E. Watanabe, I. Yagi, Y. Aoyagi*

Transport in Complex Nanostructures; Luttinger Liquid; Electron-Phonon Coupling

2. ["Random telegraph signal in carbon nanotube peapods"](#)
by *S. H. Jhang, S. W. Lee, D. S. Lee and Y. W. Park, M. S. Kabir, M. Sveningsson and E. E. B Campbell, Urszula Dettlaff-Weglikowska and Siegmur Roth, G. 蓬. Jeong, T. Hirata and R. Hatakeyama*
3. ["Electroemission of fullerenes from a peapod"](#)
by *I.V. Krive, R.I. Shekhter and M. Jonson*
4. ["Transition from a Luttinger liquid to a Fermi liquid in potassium intercalated single wall carbon nanotubes"](#)
by *H. Rauf, T. Pichler, M. Knupfer, J. Fink, B. Böhner, H. Shiozawa and H. Kataura*
5. ["Competition of Cooper pairs and Luttinger liquid in Nb/SWNTs-rope junctions"](#)
by *I. Takesue, N. Kobayashi, S. Miyadai and J. Haruyama*
6. ["Investigation and modifications of electron-electron interaction in carbon nanotubes"](#)
by *A.I. Romanenko, O. B. Anikeeva, R.V. Gorbachev, A. V. Okotrub, A.G. Kudashov, T. V. Reshetenko, Z. R. Ismagilov, O. G. Abrosimov*
7. ["Proximity-induced superconductivity in Nb/multi-walled carbon nanotubes/Al junctions"](#)
by *N.Kobayashi, S.Miyadai, A.Tokita, M.Nomura, I.Takesue, and J.Haruyama*
8. ["\(n,m\) assignment and electron phonon coupling in SWNTs: theory and experiment"](#)
by *M. Mach , H. Telg, J. Maultzsch, S. Reich, P. Ordej , C. Thomsen*
9. ["Electron-phonon coupling and phonon dispersions in graphite"](#)
by *S. Piscanec, M. Lazzeri, F. Mauri, A. C. Ferrari, J. Robertson*
10. ["Peierls distorted ground states of carbon nanotubes"](#)
by *A.C.M. Carvalho and M.C. dos Santos*
11. ["Irradiation effects and ion channeling in multi-walled carbon nanotubes"](#)
by *A.V. Krasheninnikov, J. Pomoell, and K. Nordlund*
12. ["Collision-Induced Resistivity of Single-walled Carbon Nanotubes"](#)
by *Kim Bolton, Arne Ros駉, Hugo E. Romero and Peter C. Eklund*
13. ["Fano Resonance and Electron Filtering in Multiply-Connected Carbon Nanotubes"](#)
by *Gunn Kim, Sang Bong Lee, Tae-Suk Kim, and Jisoon Ihm*

Nanotube-Based Transistors

14. ["Novel structure for carbon nanotube field-effect transistors \(CNFETs\) with a self-aligned doping profile"](#)
by *Yu-Ming Lin, Joerg Appenzeller, and Phaedon Avouris*
15. ["High Performance Carbon Nanotube Field Effect Transistor with Polymer Electrolyte Gate"](#)
by *Hwangyou Oh, Jae-Ryoung Kim, Ju-Jin Kim, Namjung Cho, Yongku Kang, and Jeong-O Lee*
16. ["n-type carbon nanotube FETs fabricated by using Ca/Al contact electrodes"](#)
by *Y. Noshu, Y. Ohno, S. Kishimoto, T. Mizutani*

17. [**"Nanotube Transistors on SrTiO₃/Si Substrates"**](#)
by *B. M. Kim, T. Brintlinger, E. Cobas and M. S. Fuhrer*
18. [**"Electrical and theoretical results from self-aligned side gates"**](#)
by *L A W Robinson, A.S. Teh, M.H. Yang, R.G. Lacerda, K.B.K. Teo, D. Gunlycke, G.A.J. Amaratunga, W.I. Milne, D. Williams, D.G. Hasko*
19. [**"A Novel Dual-Function CNT-Gated CNT Thin Film Transistor"**](#)
by *Jeng-Hua Wei, Hsin-Hui Chen, Hung-Hsiang Wang, Ming-Jiunn Lai, Ming-Jer Kao, and Ming-Jinn Tsai*
20. [**"A Tunable Conduction-Type Structure of Carbon Nanotube Field Effect Transistor"**](#)
by *Hung-Hsiang Wang, Ming-Jiunn Lai, Jeng-Hua Wei, Po-Yuan Lo, Ming-Jer Kao, and Ming-Jinn Tsai*
21. [**"Electrostatic Mechanisms for Conductance Modulation on Metallic SWNTs"**](#)
by *Salvador Barraza-Lopez, Slava V. Rotkin, Yan Li and Karl Hess*
22. [**"Local Electric Field Effects on Double Walled Carbon Nanotube Field Effect Transistors "**](#)
by *Jae-Ryoung Kim, Hwangyou Oh, Ju-Jin Kim, Jinhee Kim, C. J. Lee*
23. [**"Carbon Nanotube p-n Junction Diode"**](#)
by *Ji Ung Lee*

Magneto-Transport and Magnetism

24. [**"Magnetic Behaviour of Metallic Particles Encapsulated into Carbon Nanotubes"**](#)
by *CS Cojocar, C. Meny, A. Derory, S. Colis and F. Le Normand*
25. [**"Magnetic properties of hydrogen and helium on graphene and carbon nanotubes"**](#)
by *P. O. Lehtinen, Yuchen Ma, A. S. Foster, A. Krashennikov and R. M. Nieminen*
26. [**WITHDRAWN**](#)
27. [**"Magneto-transport in small diameter carbon nanotubes: Novel features under 60T"**](#)
by *B. Raquet, B. Lassagne, G. Fedorov, M. Sagnes, J.-M. Broto, F. Triozon, S. Roche*
28. [**"Magneto transport of diluted magnetic semiconductor GaMnN nano wire"**](#)
by *K.I. Lee, J.Y. Chang, H.J. Choi, H.K. Seong, W.Y. Lee*
29. [**"Production and Characterization of Ferromagnetic Alloyed-Nanowires inside Carbon Nanotubes"**](#)
by *A. L. El 徴s, J. A. Rodr 徴uez Manzo, A. Zamudio, S. Baltazar-Rojas, F. L ez-Ur 徴s, E. Mu z-Sandoval, H. Terrones, M. Terrones, M. McCartney, D. J. Smith, D. Golberg, C. H. Tang, Y. Bando*
30. [**"The role of magnetic fields on the electronic and transport properties of metallic carbon nanotube quantum dots"**](#)
by *C. G. Rocha, A. Latg 徴, P. Venezuela, and L. Chico*
31. [**"Dynamics of Chiral Carbon Nanotubes in Magnetic Fields: Magneto-chirodynamic Effects"**](#)
by *V. Krstic, G. Wagn 徴e, G.L.J.A. Rikken*
32. [**"Exchange coupling between magnetic impurities in carbon nanotubes"**](#)
by *A. T. Costa Jr. and M. S. Ferreira*

- 33. ["Electronic Propagating Waves in Carbon Nanotubes for the Electrodes of the Spin Wave Device"](#)
by [Toshihito UMEGAKI, Matsuto OGAWA, Yasuyuki MAKINO, and Tanroku MIYOSHI](#)
- 34. ["Magnetic Properties of Carbon Nanostructures: The role of negative and positive curvature"](#)
by [Rodriguez-Manzo, J.A., Lopez-Urias, F., Terrones, M., Terrones, H.](#)
- 35. ["Ferromagnetism in the graphitic fragment"](#)
by [Noejung Park](#)

Saturday Morning Invited Session P
Controlling Electronic Structure of Nanotubes


- 1. ["Electronic Structure Control of Single Walled Carbon Nanotube Functionalization"](#)
by [Michael S. Strano](#)
- 2. ["Quantum Conductance of Nanojunctions under Finite Bias and Field Emission of Double-Wall Carbon Nanotubes"](#)
by [Jisoon Ihm](#)
- 3. ["Carbon nanotube transistors and electroluminescence in 1D"](#)
by [Richard Martel](#)

Saturday Morning Oral Session Q

- 1. ["Single Atom C-Chain Formation in SWCNT Breaking Experiments"](#)
by [R. Caudillo, M.A.L. Marques, H.E. Troiani, M. Miki Yoshida, A. Rubio, and M. Jose Yacaman](#)

ACCOMPANYING PERSON SPECIAL PROGRAM

SPECIAL PROGRAM FOR ACCOMPANYING PERSONS ONLY						
Please note that these costs are not included in the accompanying person's fee						
Sunday 18	Monday 19	Tuesday 20	Wednesday 21	Thursday 22	Friday 23	Saturday 24
				<p>Guanajuato Trip to the most beautiful Colonial City in Mexico.</p> <p>\$35 USD</p> <p>* Round trip in a first class bus * English speaking guide * Traveler Insurance</p>		

				<ul style="list-style-type: none">* Refreshments* Entrance to two Museums 		
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- Since the spaces for these tours are very limited and the meeting is during a high season, we would like you to register and send your filled ["accompanying person program registration form"](#) by fax as soon as possible.



Document <http://nanotube.msu.edu/nt04/program.html>
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