



NANOTUBE-99

International Workshop on the Science and Application of Nanotubes

East Lansing, Michigan, USA, July 24-27, 1999

Workshop Schedule

Saturday, July 24, 1999 – Morning

- 08:15 Opening Remarks
- 08:30 – 10:30 Session A:
Morphology, Characterization, and Electronic Structure of Nanotubes I
 Coordinators: Mildred Dresselhaus, Philippe Lambin
- A.x Contributed Talks and Posters
- 10:30 – 11:00 Coffee Break (sponsored by Zyvex)
- 11:00 – 12:30 Session B:
Morphology, Characterization, and Electronic Structure of Nanotubes II
 Coordinators: Annick Loiseau, Eugene Mele
- B.x Contributed Talks and Posters
- 12:30 – 13:30 Lunch
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Saturday, July 24, 1999 – Afternoon

- 13:30 – 15:30 Session C:
Formation Process of Nanotubes I
 Coordinators: Jerzy Bernholc, Zhifeng Ren
- C.x Contributed Talks and Posters
- 15:30 – 16:30 Coffee Break (sponsored by MSU Composite Center)
- 16:30 – 18:30 Session D:
Formation Process of Nanotubes II
 Coordinators: Jean-Christophe Charlier, Gary G. Tibbetts
- D.x Contributed Talks and Posters
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Sunday, July 25, 1999 – Morning

- Lazy Morning Time to Enjoy MSU Campus
 Session E:

- 10:00 – 11:00 Mechanical Properties of Nanotubes
 Coordinator: David Luzzi
 E.x Contributed Talks and Posters
- 11:00 – 12:30 Session F:
 Chemical Properties of Nanotubes
 Coordinators: John E. Fischer, Susumu Saito
 F.x Contributed Talks and Posters
- 12:30 – 13:30 Lunch
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Sunday, July 25, 1999 – Afternoon

- 13:30 – 17:00 Session G:
 Electronic Properties and Transport in Nanotubes
 Coordinators: Jisoon Ihm, Alex Zettl
 G.x Contributed Talks and Posters
 Coffee Served during Poster Presentation (sponsored by MSU CFMR)
- 17:00 – 19:00 Session H:
 Applications of Nanotubes
 Coordinator: Cees Dekker
- H.1 ["Field emission displays \(FEDs\) have much in common with cathode-ray tubes \(CRTs\)"](#)
 [by W.B. Choi, Y.H. Lee, J.H. Kang, H.Y. Kim, D.S. Chung, I.T. Han, Y.W. Jin, and J.M. Kim](#)
- H.2 ["Carbon Nanotube Artificial Muscles"](#)
 [by R. H. Baughman, C. Cui, A. A. Zakhidov, Z. Iqbal, J. N. Barisci, G. M. Spinks, G. G. Wallace, A. Mazzoldi, D. De Rossi, A. G. Rinzler, O. Jaschinski, S. Roth, and M. Kertesz](#)
- H.x Contributed Talks and Posters
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Monday, July 26, 1999 – Morning

- 08:30 – 10:30 Session I:
 Formation and Characterization of Nanotubes I
 Session Chair: Gene Dresselhaus
- I.1 ["Growth dynamics of graphitic carbon by laser ablation"](#)
 [by S. Iijima, M. Yudasaka, K. Takahashi and F. Kokai](#)
- I.2 ["Energetics and Electronic Properties of Doped Nanotubes"](#)
 [by Susumu Saito](#)
- I.3 ["Dynamics of Interacting Nanotubes"](#)
 [by Young-Kyun Kwon and David Tománek](#)
- 10:30 – 11:00 Coffee Break (sponsored by Zyvex)
- 10:30 – 12:30 Session J:
 Formation and Characterization of Nanotubes II
 Session Chair: Laszlo Forro
- J.1 ["Synthesis, structure, chemistry and growth of composite B-N-C nanotubes and filled carbon nanotubes"](#)
 [by A. Loiseau](#)
- J.2 ["Simulation of STM images of carbon nanotubes: Principles and illustrations"](#)
 [by Philippe Lambin and Vincent Meunier](#)

- J.3 ["Perspectives on Nanotube Applications from the Vapor-Grown Carbon Fiber Community"](#)
by Gary G. Tibbetts

12:30 –
13:30

Lunch

Monday, July 26, 1999 – Afternoon

13:30 –
15:30

Session K:
Formation and Characterization of Nanotubes III

Session Chair: Peter Eklund

- K.1 ["Large arrays of well-aligned carbon nanotubes"](#)
by Z. F. Ren, Z. P. Huang, D. Z. Wang, and J. G. Wen
- K.2 ["Catalytic Growth Mechanisms for Single-Wall Nanotubes"](#)
by J.-C. Charlier
- K.3 ["Nanoscopic Hybrid Materials: The Synthesis, Structure and Properties of Peapods, CATs and Kin"](#)
by David E. Luzzi and Brian W. Smith

15:30 –
16:00

Coffee Break (sponsored by Dow Chemical Company)

16:00 –
18:00

Session L:
Ground-State Properties of Nanotubes

Session Chair: Sumio Iijima

- L.1 ["Physical Properties of Commercially-Available SWNT"](#)
by M. Tachibana, K.A. Williams, S.L. Fang, E. Richter, and P.C. Eklund
- L.2 ["Doped Nanotubes: Fundamental Properties and Battery Applications"](#)
by John E. Fischer, Roland S. Lee and Agnes Claye
- L.3 ["Mechanical Properties and Transport in Carbon Nanotubes"](#)
by J. Bernholc, M. Buongiorno Nardelli, J.-L. Fattebert, D. Orlikowski, R. Roland and Q. Zhao
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Tuesday, July 27, 1999 – Morning

08:00 –
10:00

Session M:
Electronic Properties of Nanotubes I

Session Chair: Walt de Heer

- M.1 ["Defects and Transport in Carbon Nanotubes"](#)
by Steven G. Louie
- M.2 ["Electrical transport in carbon nanotubes and quantum wires: experiments and theoretical results"](#)
by Phaedon Avouris
- M.3 ["Field emission from carbon nanotubes of various tip structures"](#)
by Jisoon Ihm and Seungwu Han

10:00 –
10:30

Coffee Break

10:30 –
12:30

Session N:
Electronic Properties of Nanotubes II

Session Chair: Steven G. Louie

- N.1 ["Second-Order Resonant Raman Spectra of Single-walled Carbon Nanotubes"](#)
by Mildred S. Dresselhaus and Gene Dresselhaus
- ["Electronic Structure Inferred from Resonant Raman Spectra of Carbon](#)

- N.2 ["Nanotubes"](#)
by Gene Dresselhaus and M.S. Dresselhaus
- N.3 ["Carbon Nanotubes Kinks as Intramolecular Junctions"](#)
by Cees Dekker

12:30 –
13:30 Lunch

Tuesday, July 27, 1999 – Afternoon

- 13:30 – 16:30 Session O:
Electronic Properties of Nanotubes III
Session Chair: Phaedon Avouris
- O.1 ["From mechanical to electronic properties of carbon nanotubes"](#)
by Laszlo Forro, J.-P. Salvetat, J.-M. Bonard, R. Gaal, B. Ruzicka, and L. Degiorgi
- O.2 ["In situ electron microscopy experiments on MWNTs"](#)
by Walt de Heer, Philippe Poncharal, R. Nitsche, and Z.L. Wang
- O.3 ["Density Waves and STM Imaging of Carbon Nanotubes"](#)
by E.J. Mele and C.L. Kane
- O.4 "T.B.A."
by Alex Zettl
- 16:30 Closing Remarks
- 17:00 End of NANOTUBE-99
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