

2004 : a pivotal year

The large number of posters turned from a blessing of headache for the organizers and the attendees !



Program NT04:

- > 300 participants
- 240 poster+ presentations !!!

Sunday 18	Monday 19	Tuesday 20	Wednesday 21	Thursday 22	Friday 23	Saturday 24
	Opening Ceremony					
	A1 (keynote)			I1 (keynote)	L1 (invited)	P1 (invited)
	A2 (invited)	E1 (invited)		I2 (invited)	L2 (invited)	P2 (invited)
	A3 (invited)	E2 (invited)		I3 (invited)	L3 (invited)	P3 (invited)
	Coffee Break			Coffee Break		
	B1 (invited)	F1 (invited)		J1 (invited)	M1 (invited)	Q1 (contributed)
	B2 (invited)	F2 (invited)		J2 (invited)	M2 (invited)	Concluding Remarks
Registration	Conference Lunch		<p>TOUR SAN MIGUEL ALLENDE GTO http://www.sanmiguelguide.com/</p> <p>Challenges and Future of NT Research and Technology. Presentations by Industry, Research and Funding Organizations, followed by a panel discussion.</p>			
	Poster++ Talk C	Poster++ Talk G	Poster++ Talk N			
	Poster+ Oral Session C	Poster+ Oral Session G	Poster+ Oral Session N			
	Poster Session C	Poster Session G	Poster Session N			
	Coffee Break			Coffee Break		
	Poster++ Talk D	Poster++ Talk H	Poster++ Talk O			
	Poster+ Oral Session D	Poster+ Oral Session H	Poster+ Oral Session O			
	Poster Session D	Poster Session H	Poster Session O			
	Welcome Party	Dinner				

Towards a new organisation from 2005

- Organisation rules: **THE Charta**
- Steering Committee in charge of the NT series
D. Tomanek, M. Dresselhaus, A. Loiseau,
M & H. Terrones, E. Campbell, M. Yudasaka,
M. Pimenta (> 2007), T. Heinz
- Executive summaries by Poster Session Chairs
- Discussion Forum
- Tutorials



2005: the new format in run

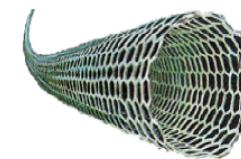
NT'05 SCIENTIFIC PROGRAM

Time	Sun 26	Mon 27	Tues 28	Wed 29	Thurs 30	Fri 1		
08:30-09:00			registration					
09:00-09:45			Maurizio Prato	Morinobu Endo	David Tomanek	Paul L. McEuen		
09:45-10:15		Welcoming address (09:30-10)	Alan Windle	Susumu Katagiri	Jean-Louis Sauvajol	Nadine Kam		
10:15-10:45		Sumio Iijima (10:10-45)	Jerry Tersoff	Jean Dijon	Junichiro Kono	Cheol Jin Lee		
10:45-11:15		Steven G. Louie	Coffee	Coffee	Coffee	Coffee		
11:15-11:45		Coffee	Young Hee Lee	Jong-Min Kim	Tony Heinz	Brian LeRoy		
11:45-12:05		Humberto Terrones (11.45-12.15)	Yoshinori Sato	Atsuko Nagataki	A.V. Krasheninnikov	S. W. Lee		
12:05-12:25		Lars Samuelson (12.15-12.45)	lunch	A. K. Swan	lunch	lunch		
12:25-14:00		lunch (12.45-14.20)						
14:00-14:20		Pavel Nikolaev	Poster Session A	G. Seifert	Pertti Hakonen			
14:20-14:40		Feng Ding		B. Gao	A. Wall			
14:40-16:00		Masahiko Ishida (14.40-15)		Poster Session B	Poster Session B			
16:00-18:00	registration	Poster Session A			Snacks 19:00			
18:00-19:00	Welcome party				Concluding Remarks 20.00			
19:00-21:00	Göteborg reception							

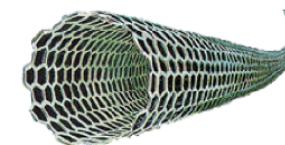
NT'05 Tutorial:
Raman Scattering in Carbon Nanotubes

Carbon Nanotubes

Mildred Dresselhaus
MIT
June 26, 2005



Collaborators:
G. Dresselhaus, MIT
G. Samsonidze, MIT
G. Chou, MIT
H. Son, MIT



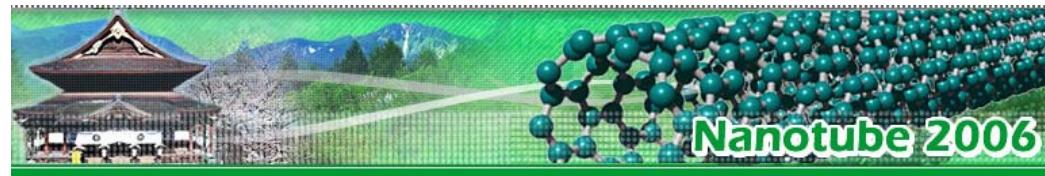
Collaborators:
A. Jorio, Brazil
M.A. Pimenta, Brazil
A. Souza Filho, Brazil
J. Jiang, Japan
R. Salto, Japan

NT'05: Sixth International Conference on the
Science and Application of Nanotubes
Göteborg, Sweden
June 26 - July 1, 2005
<http://nanotube.msu.edu/nt05/>



Introduction to Focussed Poster Sessions, and Concluding Remarks at NT'05

A.1	Annick Loleau	Monday, June 27
A.2	Esko I. Kauppinen	Tuesday, June 28
A.3	Marcos Pimenta	Tuesday, June 28
A.4	Jack Fischer	Tuesday, June 28
B.1	Pavel Nikolaev	Thursday, June 30
B.2	Apparao Rao	Thursday, June 30
B.3	Tony Heinz	Thursday, June 30
B.4	Gianaurelio Cuniberti	Friday, July 1
B.5	Yoshiyuki Miyamoto	Friday, July 1
CR	Mildred Dresselhaus	Friday, July 1



NT'06 Conference Schedule (18-23 June 2006)* – Version of June 16, 2006					
Time	June 18 (Sun.)	June 19 (Mon.)	June 20 (Tue.)	June 21 (Wed.)	June 22 (Thu.)
08:00- 09:00		Opening Ceremony		Announcements	
09:00- 09:45		Announcements	Keynote lecture 1: M. Bhushan	Announcements	Announcements
09:45- 10:15	Nanotube Tutorial I (10:00-12:30)	Invited talk 1: K. Hess	Invited talk 4: A. Hirschfeld	Keynote lecture 2: P.C. Eklund	Keynote lecture 3: P. Kim
10:15- 10:45	D. Tomanek (10:00-11:15)	Introduction w/ posters A: A. White	Introduction w/ posters C: G. Arepalli	Invited talk 5: M. Sterns	Invited talk 10: C. Eichlberger
10:45- 11:45	M.G. Dresselhaus (11:15-12:30)	Poster session A (with coffee)	Poster session C (with coffee)	Coffee break (30 min.)	Introduction w/ posters E: J. Fischer
12:30- 12:45	Lunch (90 min.)	Lunch (90 min.)	Lunch (90 min.)	Poster session E (with coffee)	Poster session G (with coffee)
12:45- 13:45	Nanotube Tutorial II (14:00-17:00)	Invited talk 2: E. Jaschinski	Invited talk 6: K. Ueda	Intro to Bio-impact: M. Takeuchi	Lunch (90 min.)
13:45- 14:30	E. I. Kauppinen (14:00-15:00)	Invited talk 3: Y. Nakayama	Invited talk 8: A. Jono	Invited talk 7: K. Campbell	Invited talk 11: K. Murata
14:30- 15:15	Contributed talk 1: S. Nanayama	Contributed talk 1: S. Nanayama	Contributed talk 3: M. Kaempgen	Invited talk 9: K. Atsushi	Contributed talk 8: M. Arepalli
15:15- 15:30	Contributed talk 2: B. Zhang	Contributed talk 2: B. Zhang	Contributed talk 4: I. Iwaki	Contributed talk 10: R. Saito	Contributed talk 12: L. Dai
15:30- 16:15	Coffee break (30 min.)	Coffee break (30 min.)	Coffee break (30 min.)	Contributed talk 11: A. C. Ferian	Invited talk 13: A. Manzana
16:15- 16:30	J. E. Fischer (16:00-17:00)	Introduction to posters E: T. Hayashi	Introduction to posters F: T. Heinz	Coffee break (30 min.)	Coffee break (30 min.)
16:30- 17:00	Registration (17:00-20:30)	Poster session B (with snacks)	Poster session D (with snacks)	[1] Conducting Remarks [2] Announcement of NT'07 conference [3] Closing Ceremony	Poster session F (with snacks)
17:00- 20:30	Welcoming Reception (18:00-20:30)			Conference Banquet (18:30-21:00)	

* This is a preliminary program, which is being modified due to the changing travel plans of conference delegates.

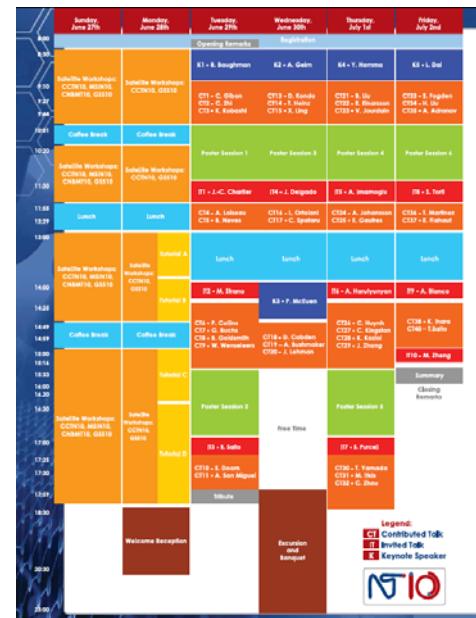
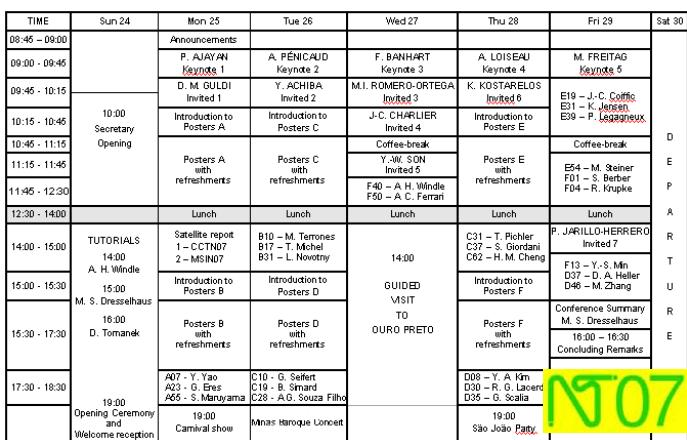
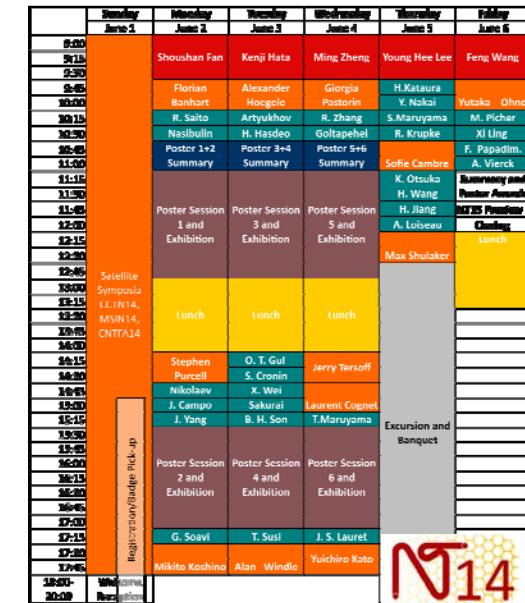
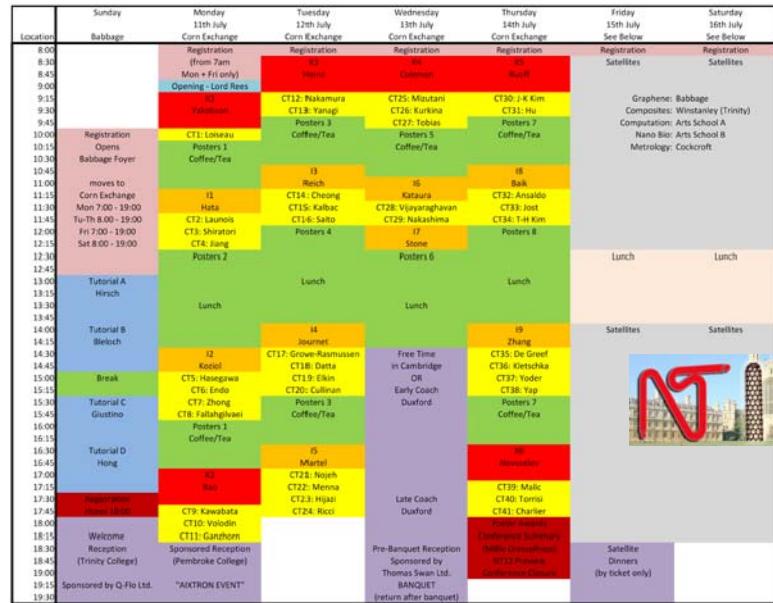
Program NT06 at Nagano

- Satellite sessions have their own scientific committees
- Several adjustments were necessary year after year to integrate these sessions as full part of the NT conference

Program variations

NT08 Scientific Program

Time	Sunday 29 June	Monday 30 June	Tuesday 1 July	Wednesday 2 July	Thursday 3 July	Friday 4 July
08:00	Registration					
08:15	X. Blasé	C. Thomsen	S. Iijima	A. Zettl	H. Dai	
08:30	L. Hueso	J. Lefebvre	N. Grotewold	B. Yakobson	M. Yudasaka	
09:00						
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24:00						



NT14

From 2010: a steady state regime?



Number of attendees
oscillates from
230 to 700 !

A Novelty in 2015: the industrial forum

8



Chair: Young Hee Lee –SKU, Nagoya



Panelists:

M. Endo – Shinshu U., Japan
S. Fan – Tsinghua U., China
E. Kauppinen – Aalto U. , Finland
O. Zhou- UNC Chapel Hill, USA
M. Yumura –AIST, Japan
S. Baik – Sungkyunkwan U. Korea

Discussion on:

- what is done at the laboratory scale
- transfer to starts up
- Mass production

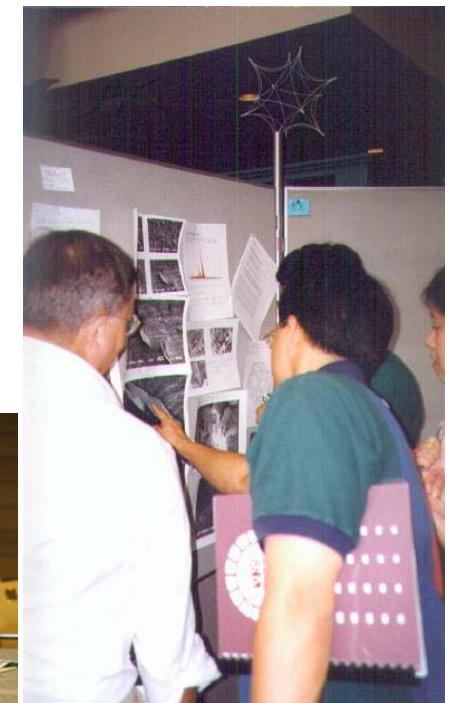
The NT Conference today

What makes the NT conference so unique:

- Ingredients of the program:
 - Plenary conference with no parallel sessions
 - Satellite symposia on focused and advanced topics
 - Tutorials
 - Half of the time devoted to poster sessions
 - Large number of posters
 - Poster summaries guide individual selection
 - Promote person-to-person and student-to-professor contacts
- The main annual international rendez-vous on Nanotubes
- Emphasis in new science and new low dimensional materials



on hard work in 2005



Poster session in 1999



Poster summary at NT08



Vivid Discussion at NT13



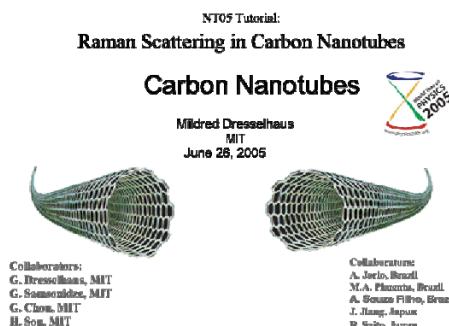
Work with Millie at NT13

A major figure of NT Conferences: Millie Dresselhaus

Posters, Keynotes, Tutorials, Conference summaries: a constant contribution since 1999



A poster of Millie at NT01



Tutorial of Millie at NT05



Poster at NT13



Poster at NT13



Question at NT05



Talk at NT11

Outline

A.Jorio, M. Terrones & M.S. Dresselhaus

- What we learned at NT06
- Achievements and Trends
- Challenges & Future Work

NT06

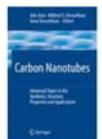


NT08

Outline

Jean Christophe Charlier
Ado Jorio
E. Flahaut
Jing Kong
Mario Hofmann
Mildred S. Dresselhaus

- What we learned at NT08;
Achievements and Trends
- Reports from satellite meetings
- Challenges & Future Work



"Advanced Topics in the Synthesis, Structure, Properties and Applications of Carbon Nanotubes",
by A. Jorio, M.S. Dresselhaus & G. Dresselhaus



Conference Summary for NT 15

M. S. Dresselhaus, MIT
Nagoya, Japan July 3, 2015



Some Main Figures of NT



Thanks to David Tomanek



David opening NT13 at Helsinki