

WORKSHOP ORGANIZATION AND GOALS

Workshop Organizers:

Jerry Chuang/NIST– Goals

Maw-Kuen Wu/NSC – Taiwan Team

Peter Anderson/Ohio State – Logistics

FY 2004 NNI Budget (\$M)

Agency	2003 enacted	2004 request*	Change, 2003 to 2004	% Change, 2003 to 2004
NSF	221	249	29	13%
DOD	243	222	-21	-8%
DOE	133	197	64	48%
HHS (NIH)	65	70	5	8%
DOC (NIST)	66	62	-4	-6%
NASA	33	31	-2	-6%
USDA	1	10	9	900%
EPA	5	5	0	0%
DHS (TSA)	2	2	0	0%
DOJ	1	1	0	0%
TOTAL	770	849	76	10%

(* These budgets do not include education and training through research grants)

NNI Grand Challenge Areas Supported by Nanomechanics

- Nano Materials by Design
- Nanostructures by Design
- Manufacturing at the Nanoscale
- Chemical-Biological-Radiological-Explosive Detection and Protection
- Nanoscale Instrumentation and Metrology
- Nano-Electronics, Photonics and Magnetics
- Healthcare, Therapeutics and Diagnostics
- Efficient Energy Conversion and Storage
- Microcraft and Robotics
- Nanoscale Processes for Environmental Improvement

Worldwide Government Investments in Nanotechnology

	1997	2001	2002	2003	2004
US	116	465	697	770	849*
Japan	120	465	720	800	
W Europe	126	270	400	650	
Others§	70	380	550	800	

Source: M. Roco, NSF

* Requested **AL** 432 1580 2367 3020

§ "Others" includes Australia, Canada, China, E. Europe, FSU, Israel, Korea, Singapore, Taiwan

Workshop Goals

- Examine current status of research in nanomechanics
- Identify areas that warrant future research
- Promote interactions and networking among participants

International Nanomechanics

where are we?



International Nanomechanics

proceedings

Your contributions are needed...

- A. Proceedings published by Kluwer Academic Publishers
deadline = August 31, 2004
10 pages max/submitted to Jerry Chuang
required if you are receiving financial support
- B. Special volume of *ASME J Applied Mechanics*
deadline = August 31, 2004
peer-reviewed option



INTERNATIONAL WORKSHOP ON NANOMECHANICS

PUBLICATION INFO

Dear Workshop Participant:

We want to inform you of the two types of publications to result from the International Nanomechanics Workshop at Allisoner Conference Grounds.

The first publication is a proceedings of the workshop. All attendees are invited to submit a proceedings paper. Attached is a MSWord file which describes the necessary formatting and submission information. The deadline for submission is August 30, 2004. As mentioned earlier, we ask that all participants receiving financial support submit a proceedings paper.

A second (optional) publication is a paper in a special volume of ASME Journal of Applied Mechanics, intended for those who would like to give a peer-reviewed publication related to their workshop presentation. This paper should be submitted electronically via the ASME web site: <http://journaltool.asme.org/Content/SubmPaper.cfm>. You may need to create an author account on the ASME web site if you do not have one already. The web site offers a sample paper. At upload, be sure to indicate in the space for authors comments that the paper is "for a special issue on nanomechanics with Chuang/Anderson as guest editors". The deadline for submission is August 30, 2004. If you select this option, we ask that you still submit a proceedings paper. However, you may want to make the proceedings paper an abbreviated form of your peer-reviewed paper, in order to distinguish between the two.

If you have questions, please e-mail co-organizer Jerry Chuang at chuang@nist.gov

Sincerely, Peter Anderson, Jerry Chuang, and Maw-kuen Wu, co-organizers

International Nanomechanics

the payoff

Reimbursements for
travel and workshop expenses
Three sponsors...



Three distributors of fundina...



for reimbursement info and forms
please see Teresa Yuan