

**Welcome  
to the  
2nd Workshop on  
Nanotechnology Networking  
& International Cooperation**

**October 11 & 12, 2003  
IUMRS-ICAM 2003  
Yokohama, Japan**

# Outline

- History & Background
- Structure & Organization
- Goals
- Outcomes
- After this Workshop
- Points for Discussion

## Workshop History & Background

### 1st Workshop on Nanotechnology Networking and International Cooperation

- Held in Cancun, Mexico in August, 2001
- Over 50 participants from academe, industry, and government
- Countries represented include: Brazil, Canada, China, Ireland, Italy, Japan, Korea, Mexico, Russia, Singapore, Taiwan, and the U.S.
- Goal: Design a global network to improve worldwide linkages in the nanotech community

## Workshop History & Background

### 1st Workshop on Nanotechnology Networking and International Cooperation

#### **Discussion focused on:**

- Trends in Nano Research and Education
- Types of collaborative programs
- Nanotechnology database
- Communication needs
- Virtual tools

## Workshop History & Background

### 1st Workshop on Nanotechnology Networking and International Cooperation

#### Core Recommendations:

- Understand user needs
- Make person-to-person networking a priority
- Address feasibility of cyber-features (virtual laboratories, equipment, etc..)
- Involve large cross-section of nano community in development and evaluation
- Build sustainability

## Workshop History & Background

This 2<sup>nd</sup> Workshop has resulted from the *enthusiastic response* to the first workshop, as well as many *continued relationships* among Cancun participants.

# Organization & Structure

## 2<sup>nd</sup> Workshop on Nanotechnology Networking and International Cooperation

**Purpose: Plan and organize the development of a Global Nanotechnology Network (GNN) to:**

- Facilitate exchange of nano-related information: scientific, technical and educational
- Stimulate training and research collaborations in nanotechnology
- Create novel synergies in the various nano fields (scientists, educators, government representatives, etc...)

## Organization & Structure

### 2<sup>nd</sup> Workshop on Nanotechnology Networking and International Cooperation

- This workshop is *jointly organized and sponsored* by Japanese and U.S. partners
- More such *close international cooperation* is required for a successful GNN, particularly in network:
  - Planning
  - Funding
  - Leadership
  - Operation
  - Evaluation



## Organization & Structure

# 2<sup>nd</sup> Workshop on Nanotechnology Networking and International Cooperation

## Part 1: Information Exchange

- Speaker Panels
- Keynote Lectures
- Question-and-Answer Sessions
- Focus Talks
- Group Discussions

## Organization & Structure

### 2<sup>nd</sup> Workshop on Nanotechnology Networking and International Cooperation

#### Part 2: Working groups will meet both days to

- Address network development questions
- Identify leaders
- Record feedback
- Issue recommendations

## Organization & Structure

# 2<sup>nd</sup> Workshop on Nanotechnology Networking and International Cooperation

### Part 3: Summary Session

- One hour session at the end of workshop
- Groups share their recommendations
- Group feedback collected for final report

# Workshop Goals

1. Share practical experience with professional networks
  - What networks have we already used?
  - How do they enhance our research & networking?
  - What services and linkages do they offer?

### 2. Discuss how a Global Nanotechnology Network might work for us

- What kinds of features, services, structures, linkages, etc..?
- How might it enhance our research collaborations, networking, etc?

### 3. Establish Leadership

- Joint ownership of the network through global leadership
- Identify volunteers from all regions to form a Network Planning Group
- Planning Group to meet regularly via video conferences
- 3<sup>rd</sup> Workshop in Europe

4. Discuss possible events and activities for the GNN to organize/coordinate:
  - Advanced Studies Institutes
  - Topical workshops
  - Exchange visits
  - Research collaborations
  - Obtaining international research funding
  - Etc...

### 5. Discuss a cyber-infrastructure:

- Virtual Symposia, Conferences, etc.
- Information Resources
- Educational Content Delivery
- Virtual labs, equipment, etc...
- Communication Tools
- Data Management



### 6. Discuss possible themes for the GNN

- Topical / project areas that might create buy-in at the international level
- Examples: Education, Resource sharing, Etc...

### 7. Other Development Issues:

- Supporting agencies
- Building an international membership
- Integration of Features
- Partnerships with other networks
- Evaluation & innovation
- Etc...

# Workshop Outcomes

1. Identify Regional Leadership
2. Group Recommendations
3. Written Report (distributed)
4. Network Planning Group
5. Other Volunteers to continue working on the project after this workshop

# After this Workshop

- 1. Network Planning Group to meet regularly via video conferences**
- 2. All participants can**
  - download workshop report
  - assume key responsibilities in different regions
  - maintain close and regular relationships via the cyber-infrastructure
  - remain involved in development, testing, and evaluation of the GNN
  - attend a 3<sup>rd</sup> Workshop in Europe

## After this Workshop

Effective November 1, 2003,  
please e-mail us at  
[mri@northwestern.edu](mailto:mri@northwestern.edu) to obtain a log-  
in ID to access the IVI.

# Discussion Points

- Experience with existing networks
- Desirable network features and capabilities
- Regional leaders and collaborators
- Cyber-infrastructure
- Real space events and activities
- Network themes
- Strategic partnerships
- Evaluation & innovation
- Plans for the next workshop in Europe