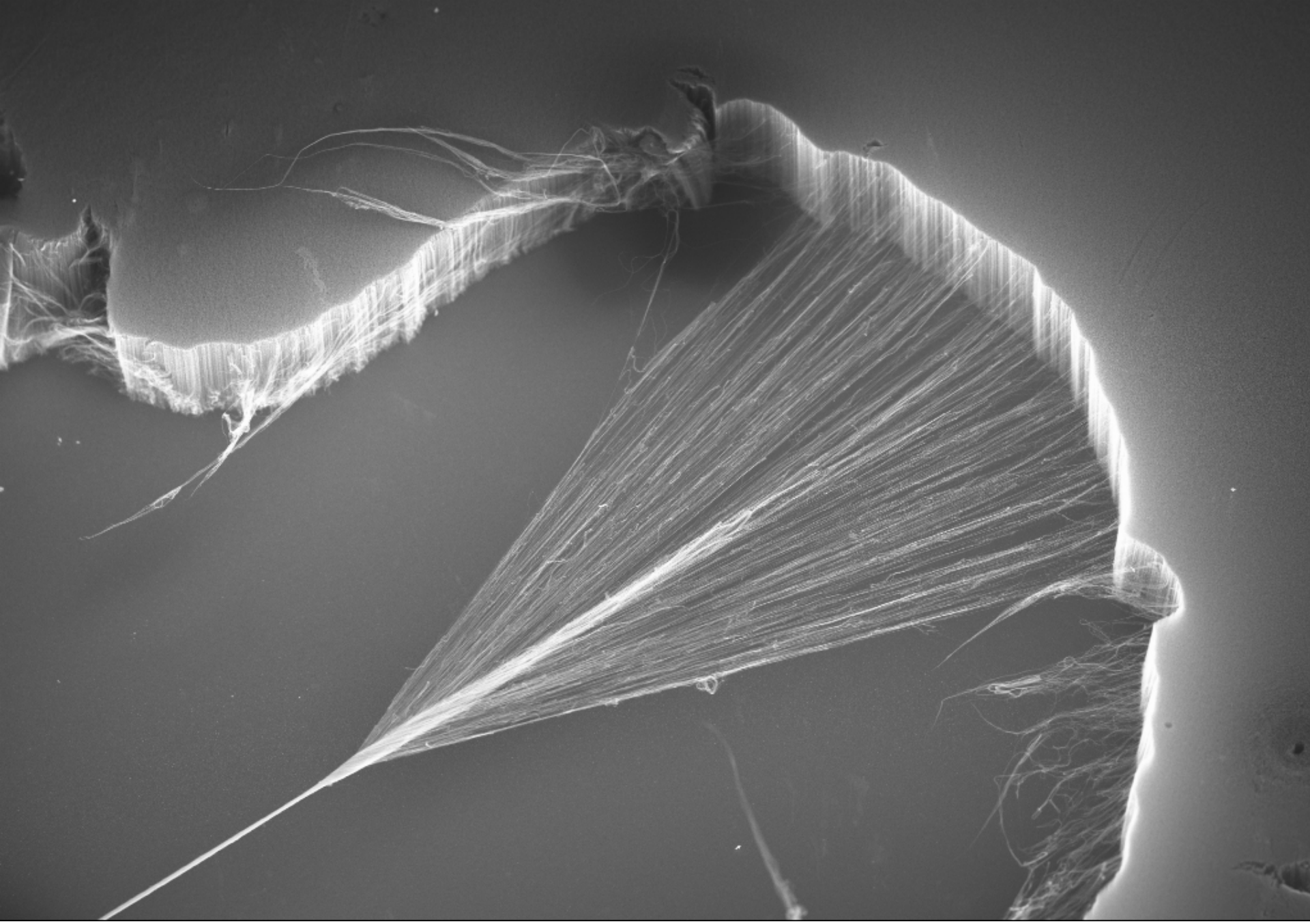


Carbon Nanotube Yarn. Credit: Mei Zhang, University of Texas at Dallas

Organization for Economic Cooperation and Development (OECD)

 Australia

 Canada

 Finland

 Greece

 Ireland

 Korea

 Netherlands

 Poland

 Spain

 Turkey

 Austria

 Czech Republic

 France

 Hungary

 Italy

 Luxembourg

 New Zealand

 Portugal

 Sweden

 UK

 Belgium

 Denmark

 Germany

 Iceland

 Japan

 Mexico

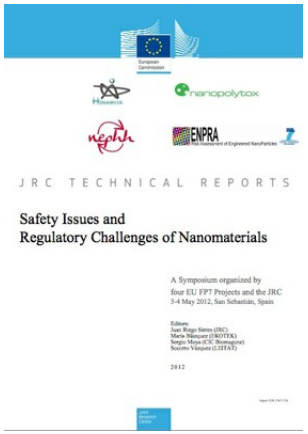
 Norway

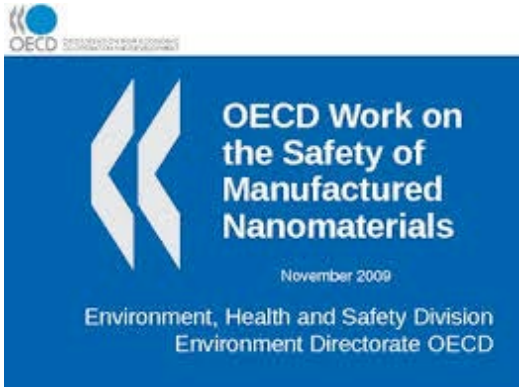
 Slovak Republic

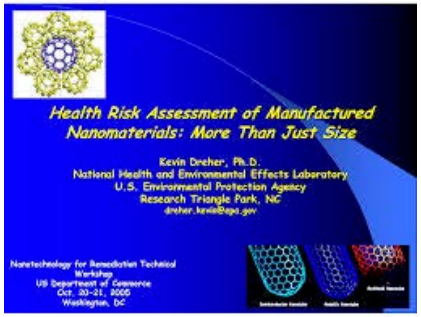
 Switzerland

 US

Discourse and Practice

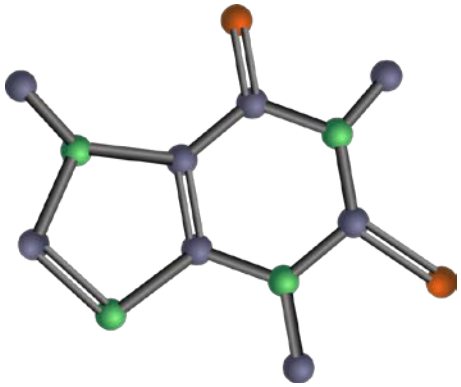




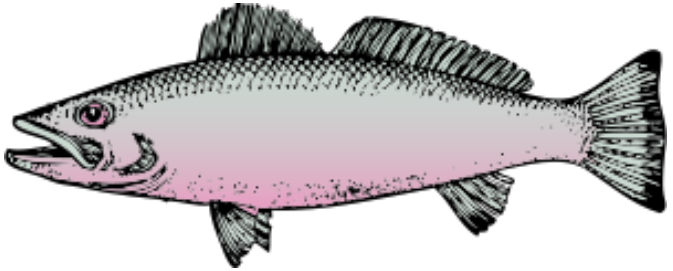


The **MAD** Framework

Physical Chemical Properties



Effects on Biotic Systems



Degradation and Accumulation

Health Effects

WPMN Projects

Project 1. Database on Safety Research

Project 2. Research Strategies on Manufactured Nanomaterials

Project 3. Safety Testing of a Representative Set of Manufactured Nanomaterials

Project 4. Manufactured Nanomaterials and Test Guidelines

Project 5. Cooperation on Voluntary Schemes and Regulatory Programs

Project 6. Cooperation on Risk Assessment

Project 7. Alternative Methods in Nano Toxicology

Project 8. Exposure Measurement and Exposure Mitigation

Project 9. Environmental Benefits and Green Nanotechnology


UNITAR /OECD/IOMC Awareness-Raising Workshop for
Developing and Transition Countries on Nanotechnology/Manufactured
Nanomaterials Asia-Pacific Region
Beijing, China, 27th November, 2009
Sponsor:
Organize

Evolving the Chemicals Discourse

“Stakeholder viewpoints could be important in the absence of data (risk tolerance).”

“The environmental optimum is not always the economic optimum.”

“It remains in the interest of all stakeholder to apply prudent risk management approaches to nanomaterials in the current environment of scientific uncertainty.”

“Nanotechnology may provide an opportunity for upstream assessment of the physical and chemical properties of the materials (e.g. to inform the application of green chemistry approaches or selection of safer substances), which could lead to downstream risk reduction or avoidance.”

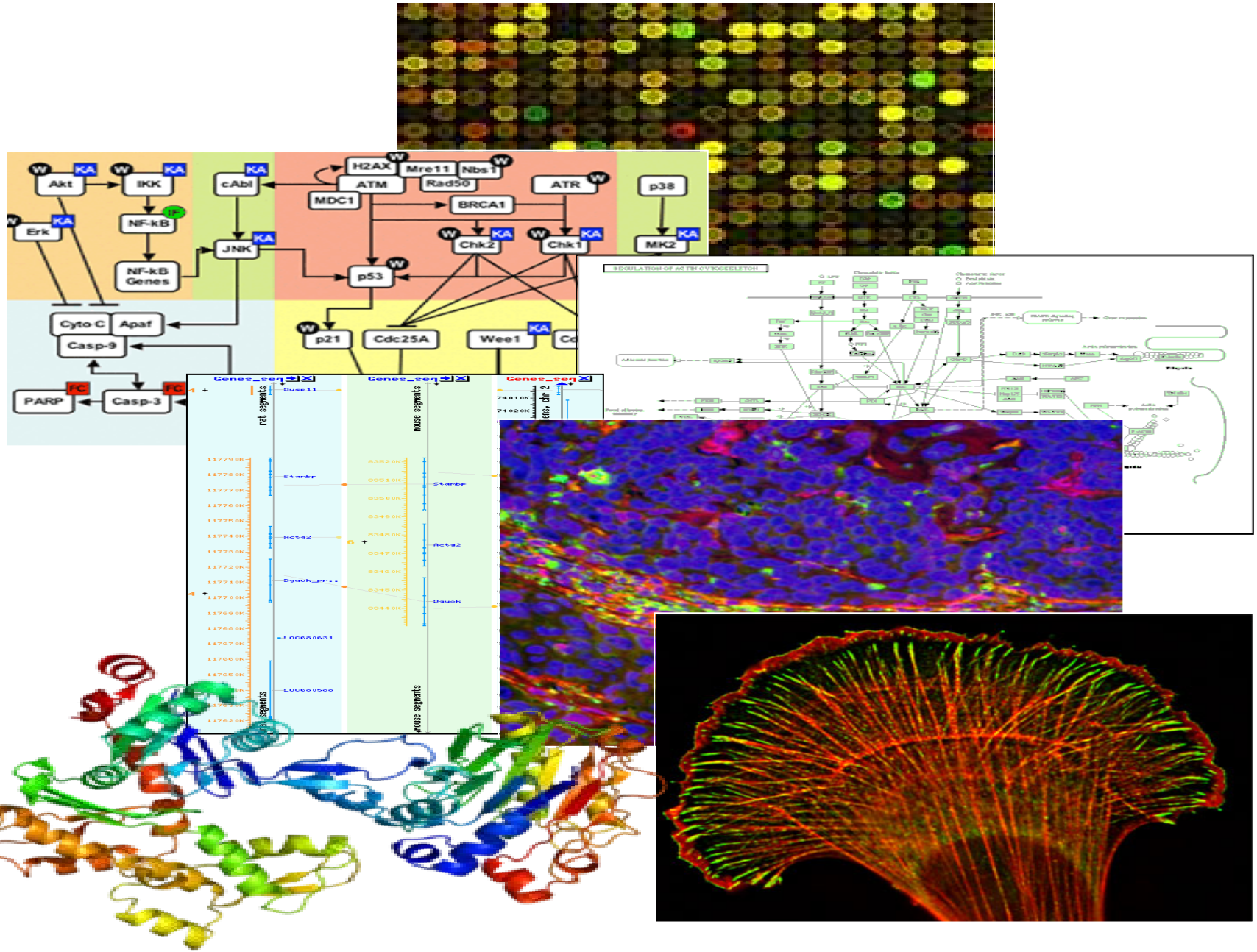
Same OECD, Different Products

WPMN Products (n=40)

- Guidance on Sample Preparation and Dosimetry
- Inhalation Toxicity Testing: Expert Meeting
- Important Issues on Risk Assessment
- Preliminary Review of OECD Test Guidelines
- National Activities on Life Cycle Assessment of Nanomaterials
- Environmentally Sustainable Use of Nanomaterials

WPN Products (n=9)

- Considerations in Moving toward a Statistical Framework for Nanotechnology
- Inventory of National Science, Technology and Innovation Policies for Nanotechnology
- Responsible Development of Nanotechnology: Results of a Survey Activity
- Fostering Nanotechnology to Address Global Challenges: Water
- Planning Guide for Public Engagement and Outreach in Nanotechnology



Photos courtesy of MIT Koch Institute