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United Nations Institute for Training and Research

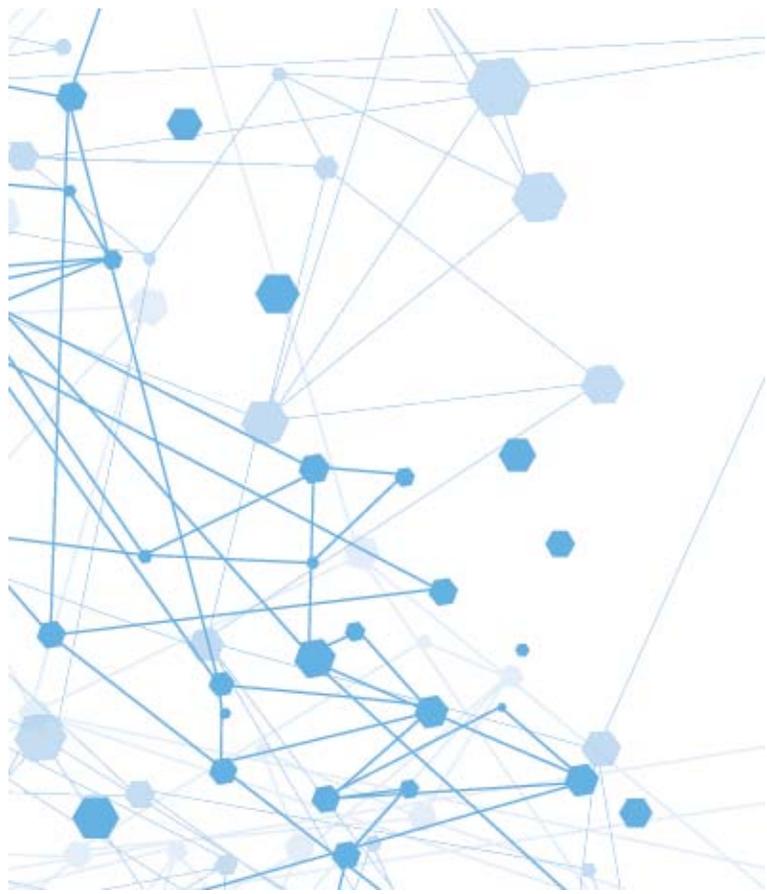
Emerging Policy Issues

Nanotechnologies and manufactured nanomaterials

22 & 23 February 2018, Lodz, Poland



International Policy Development





There has been a remarkable development and application of nanotechnology, manufactured nanomaterials, and nano-enabled products throughout the world, which have many potential benefits, as well as potentially creating health, environmental risks, and social concerns.



ICCM4 - resolution IV/2

- Reaffirms previous resolutions from ICCM2 and ICCM3
- Encourages SAICM stakeholders to address the sound management of manufactured nanomaterials in relevant national and international instruments, including regulatory frameworks
- Welcomes the establishment of regional networks focusing on the safety of nanomaterials (as developed at the 2015 regional workshops)



**STRATEGIC APPROACH TO
INTERNATIONAL CHEMICALS MANAGEMENT**

A decorative graphic in the bottom right corner of the teal banner, consisting of white lines connecting several small white dots, resembling a network or molecular structure.

- 
- Emphasizes the need to continue facilitating the exchange of information on the sound management of manufactured nanomaterials throughout their life cycle
 - Emphasizes the need for UNITAR and OECD to continue development of international guidance and training materials
 - Invites all stakeholders to continue raising awareness and enhance capacity
 - Encourages SAICM stakeholders to consider using the guidance for the Development of a National Nanotechnology Policy and Programme



UN
environment



STRATEGIC APPROACH TO

INTERNATIONAL CHEMICALS MANAGEMENT





Global Chemicals Outlook-II

Four main chapters:

1. Global Context, Trends and Developments
2. Review of Chemicals Management Topics and Instruments Up to and Beyond 2020
3. Review of Enabling Environment and Drivers of Change
4. Options for Implementation of Actions Towards Relevant SDGs up to and Beyond 2020

For publication around the end of 2018/ early 2019



Part 2- Review of Chemicals Management Topics and Instruments Up to and Beyond 2020

Chapter 3: SAICM emerging policy issues: State of knowledge

First draft was available and comments were welcome, through the GCO secretariat and the GCO Steering Committee (deadline of 31 January 2018).

Revised drafts planned for March 2018, again with review through the GCO secretariat and the GCO Steering Committee

Important for a topic like nanomaterials: it will be able to showcase what science there is and how this is relevant for policy makers. As it is to look at “beyond 2020”, should also point to areas where new/ more work is needed



Basel Convention to consider waste containing nanomaterials

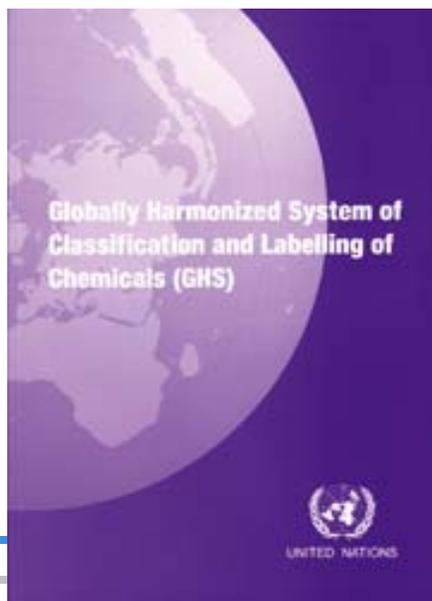
- Decision BC-13/17:
- Secretariat of the Basel, Rotterdam and Stockholm Conventions to prepare:
 - Report on issues related to waste containing nanomaterials and options for possible work under the Basel Convention within its scope
 - Compilation of information on existing activities that address such waste
- To be considered by Open-ended Working Group at its 11th meeting (Geneva, 3-6 September 2018)

Melisa Lim of the BRS secretariat will introduce more on this in the next section



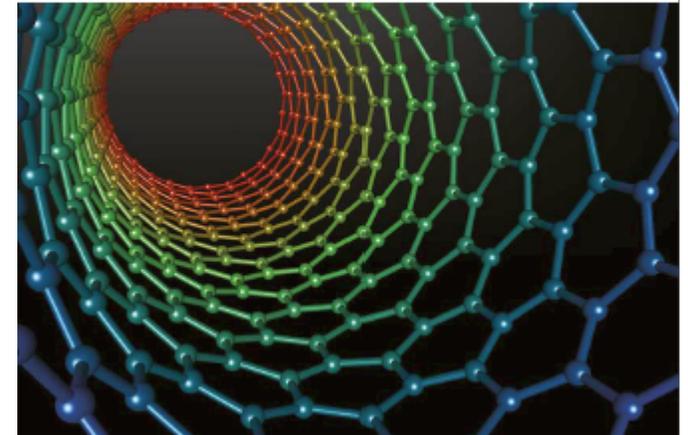
UNECE sub-committee of experts on the GHS (Dec. 2017)

“The Sub-Committee noted that the informal working group was following the progress of the work on safety of nanomaterials undertaken by the OECD and ECHA and that it intended to build on these outcomes to consider the applicability of GHS to such substances.”



WHO GUIDELINES ON PROTECTING WORKERS FROM POTENTIAL RISKS OF MANUFACTURED NANOMATERIALS

WHO GUIDELINES
ON PROTECTING WORKERS
FROM POTENTIAL RISKS
OF MANUFACTURED NANOMATERIALS



Now available online:



http://www.who.int/occupational_health/publications/manufactured-nanomaterials/en/



UNITAR work



UNITAR designated as a co-lead on the EPI with OECD

UNITAR's work focuses on:

- National policy development projects
- Regional awareness-raising and information sharing workshops
- e-Learning course
- Guidance development



Significant funding support from the Government of Switzerland for relevant activities



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Armenia:

The Project aimed to:

- increase the awareness about nano safety in different layers of population,
- facilitate in human resource development issues regarding nano safety,
- strengthen national capacities for chemicals management, especially in such a new area

Armenia:

Main outcomes:

- Information sharing and network of stakeholders developed
- A nanosafety policy drafted
- A nanosafety chapter to be added to the national profile on chemicals management

Vietnam:

The main objective of this cooperation is to raise awareness and strengthen the capacity of Governmental agencies, research institutes, centers, universities, businesses and the community in nano safety management for protecting environment and human health in Vietnam.



Vietnam:

Outcomes:

- Developed a proposal for activities for 2016-2020
- Developed a national vision up to 2025
- Reviewed activities and ongoing research in Viet Nam related to nano
- Assessed national nanosafety priorities

Jordan:

Project objective:

a training and capacity building project to support implementation of nano safety

- Developed a national workplace safety guidance document
- *Project ongoing – to be completed in 2018*



2015 regional workshops:

- Nanosafety Regional Workshop for the African Region Zambia, 16 and 17 April 2015
- Nanosafety Regional Workshop for the Latin American and Caribbean Region, Colombia, 22 to 24 June 2015
- Nanosafety Regional Workshop for the Asia-Pacific Region, Thailand, 10 to 11 September 2015



Main outcomes:

- Each region was able to develop a nanosafety network from the participants
- Identification and prioritization of the needs in each region
- Information shared among experts and national focal points

(more to be discussed on day two)



Regional workshops in 2018:

- Panama City, Panama, 1 and 2 February 2018
- Lodz, Poland, 22 and 23 February 2018
- Share information, updates on latest research in the region, overview of the WHO guidelines on protecting workers from the potential risks of manufactured nanomaterials, assessment/ update of new priority areas, and discussion on relevance/needs for nanosafety in the post-2020 framework



UNITAR e-Learning course on nanosafety:

Last run in 2015.

Insufficient interest in the course to run it since.
Possible revision and upgrade to include the
WHO guidelines.

Please contact UNITAR if you are interested in
participating



To support country-driven processes on nano, UNITAR has developed a guidance document entitled:

“Developing a National Nanotechnology Policy and Programme”, available in English, Russian and Spanish.

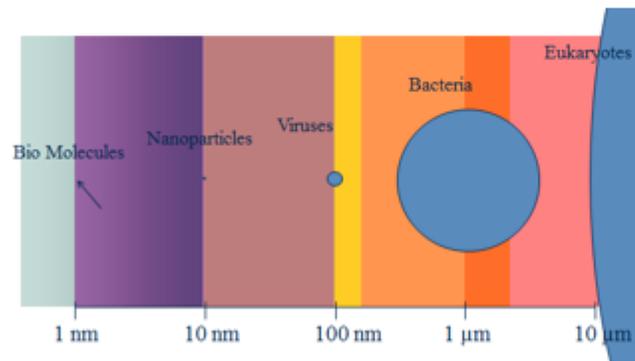
<http://cwm.unitar.org/publications/publications/Nano.aspx>

Guidance Document

www.unitar.org/cwm (go to 'our portfolio' on left hand side and select Nanotechnology)

unitar.org/cwm/portfolio-projects/nanotechnology

The screenshot displays the UNITAR website interface. At the top, there is a search bar and social media icons for Facebook, Twitter, LinkedIn, YouTube, and Email. The main navigation menu includes Home, About Us, Our Courses and Events, Our Areas of Work, and Our Results. The 'Portfolio' section is highlighted in blue. Below this, a breadcrumb trail reads: Home » Chemicals and Waste Management » Our Portfolio » Nanotechnology. On the left, a sidebar menu lists various categories, with 'Our Portfolio' expanded to show 'Nanotechnology' selected. The main content area features a scale diagram from 1 nm to 10 μm, with labels for Bio Molecules, Nanoparticles, Viruses, Bacteria, and Eukaryotes. Below the diagram is the heading 'Nanotechnology Overview' and the start of a paragraph: 'Nanotechnology and manufactured nanomaterials (nano) is a growing industry which'. To the right, there are two promotional tiles: 'CWM Brochure' and 'UNITAR GHS e-Learnin...'. The UNITAR logo is visible in the bottom left corner.



Nanotechnology

Overview

Nanotechnology and manufactured nanomaterials (nano) is a growing industry which

CWM Brochure



OBALY
POWERIZED
unitar



Part A: Background and Introduction

- 1. Working definitions
- 2. Nano Applications
- 3. Environmental and Health Concerns
- 4. Worker Health and Safety
- 5. Classification and Labelling
- 6. Research and Training Activities on Nano
- 7. Ethical Considerations
- 8. Relevant International Work

Part B : Developing a National Nano Programme

- 9. Development of a National Nano Policy and Programme
- 10. Developing the National Nano Assessment
- 11. Priority Setting of Nano
- 12. Establishing a Coordinating Mechanism
- 13. Stakeholder Training
- 14. Establishing an Action Plan for Implementation
- 15. Country Examples (Thailand, Switzerland)

<http://unitar.org/cwm/portfolio-projects/nanotechnology>

Thanks

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