Supporting the Science–Policy Interface on Chemicals, Waste and Pollution

International Panel on Chemical Pollution

Miriam Diamond Martin Scheringer Anna Soehl Zhanyun Wang Marlene Ågerstand Marta Venier



Agenda

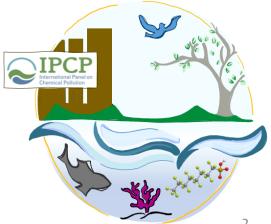
Welcome – Martin Scheringer, ETH & RECETOX

Background presentation – Zhanyun Wang, EMPA

Q&A – Miriam Diamond, University of Toronto

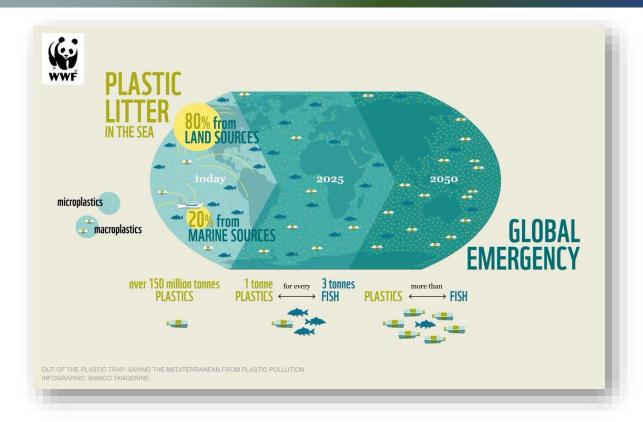
Close Webinar – Martin Scheringer, ETH & RECETOX

Finally – you write a letter!



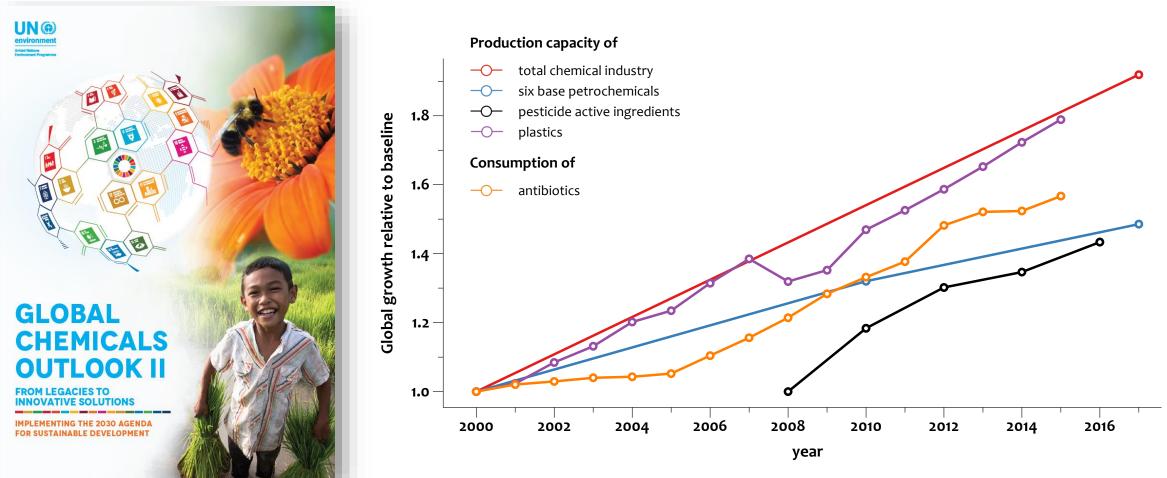
The Global Threat of Chemical Pollution

- □ 1. 24 million premature deaths per year from lead exposure and occupational exposure to 12 chemicals and groups of chemicals
- 385 million cases of unintentional, acute pesticide poisoning and 11,000 fatalities per year (44% farmers)
- Over 100 billion Euro per year societal costs associated with exposure to endocrine disrupting chemicals in the EU
- Over 50 billion Euro per year and over 37 billion USD per year healthcare costs associated with PFAS exposure in the EU and US, respectively



Sources: <u>https://www.thelancet.com/gbd/summaries;</u> Boedeker et al. (2020) BMC Public Health; Trasande et al. (2015) JCEM; Cordner et al. (2021) ES&T

Time Trends are of Concern



L. Persson et al., Environmental Science and Technology, In press.

UNEA Resolution 4/8

Emphasizing the importance of strengthening the science-policy interface and the global evidence base for chemicals

Stressing the urgent need to strengthen the science-policy interface at all levels to support and promote science-based local, national, regional and global action on the sound management of chemicals and waste beyond 2020



Gaps & Needs Analysis



MULTI-STAKEHOLDER WORKSHOP ON STRENGTHENING THE SCIENCE-POLICY INTERFACE IN INTERNATIONAL CHEMICALS GOVERNANCE: SUMMARY



December 2018

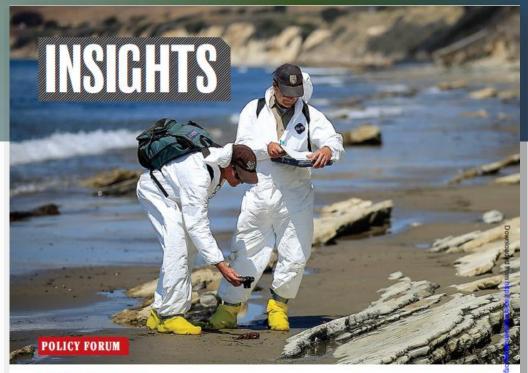


STRENGTHENING THE SCIENCE-POLICY INTERFACE IN INTERNATIONAL CHEMICALS GOVERNANCE:

A Mapping and Gap Analysis



https://www.ipcp.ch/activities/strengthening-the-science-policy-interface-in-internationalchemicals-governance; https://www.science.org/doi/10.1126/science.abe9090



biota; move across national borders through

international trade of resources, products,

and waste; or are present in many countries

(I). Some progress has been made, but the

Global Chemicals Outlook (GCO-II) from the

United Nations Environment Programme

(UNEP) (1) has called for "strengthen[ing]

We need a global science-policy body on chemicals and waste

Major gaps in current efforts limit policy responses

By Zhanyun Wang¹, Rolf Altenburger²³, Thomas Backhaus⁴, Adrian Covac⁹, Miriam L. Diamond²³, Joan O. Grimal⁴⁴, Rainer Lohmann⁹, Andreas Schäffer³, Martin Scheringer³²⁰, Henrik Selin¹², Anna Soehl¹², Noriyuki Suzuki⁴⁴

any countries and regional political the science-policy interface and the use of unions have regulatory and policy science in monitoring progress, priority-setframeworks for managing chemiting, and policy-making throughout the life cals and waste associated with hucycle of chemicals and waste." With the UN man activities to minimize harms Environment Assembly (UNEA) soon meetto human health and the environing to discuss how to strengthen the sciencement. These frameworks are complemented policy interface on chemicals and waste (2), and expanded by joint international action, we analyze the landscape and outline recomparticularly related to pollutants that unmendations for establishing an overarching dergo long-range transport via air, water, and body on chemicals and waste.

The world has seen a tremendous increase in the amount and variety of chemicals in use, with continuous growth expected; global chemical sales reached over US\$5.6 trillion in 2017 and are projected to almost double by 2030 (J). Similar trends are also true for waste generation; for example, global plastic waste entering the ocean is estimated to increase from 4.8 to 12.7 million tonnes in 2010 to some 100 to 250 million tonnes by 2025 (J).

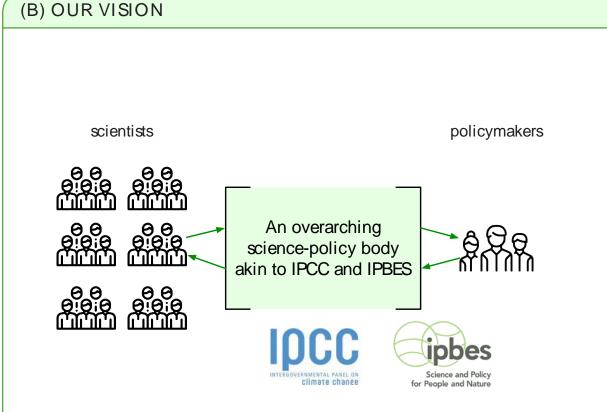
When chemicals and waste are poorly managed, not only are valuable resources lost, but chemical pollution can cause a wide range of adverse effects on human and ecosystem health at local, regional, and global levels. The latest Global Burden of Disease study estimated that exposure to lead and occupational exposure to 12 chemicals or groups of chemicals (a tiny fraction of the more than 100,000 chemicals in use) contributed to over 1.3 million premature human deaths in 2017 (3). Chemical pollution has also caused stratospheric ozone depletion, and it plays an important role in climate change (e.g., synthetic halogenated gases contributed over 10% of the global radiative forcing in 2011) (4) and ecosystem

Why We Need a New Global SPI Body

1. A lack of coverage	2. A lack of regular horizon scanning and early warning	3. A lack of bi-directional communication	4. A lack of engagement of the wide scientific community
comprehensively + vs NOT partially covered vs covered	scientific policymakers	scientists policymakers	engaged vs NOT scientists engaged
	regular horizon scanning by Scanning by Existing science- policy interface bodies initiate assessment	Existing science- policy interface bodies	

https://www.science.org/doi/10.1126/science.abe9090

Key Elements for a New Global SPI Body



Core characteristics

Intergovernmental

with stakeholders as observers and providing inputs

- Objective, independent & transparent
 with clearly defined rules and procedures (including a strict conflict-of-interest policy)
- ✓ Representative and inclusive
 - of disciplines, gender and regions
- Active communication

with policymakers, scientists and the public

Wide Support from Independent Scientists

Sign-on Campaign: Developing a global science-policy body on chemicals and waste

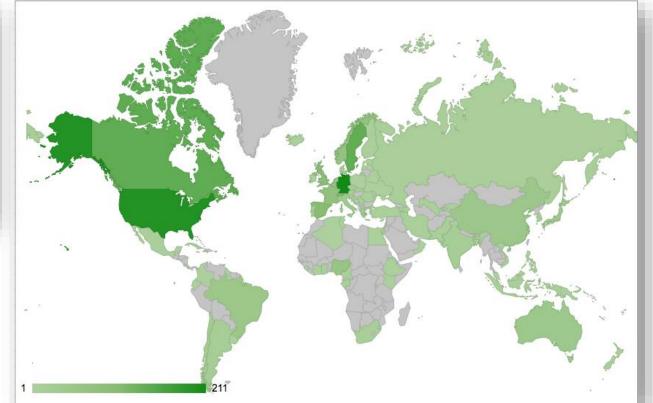
PUBLISHED ON MARCH 10, 2021.

Over 1800 scientists & practitioners from over 80 countries have already signed-on.

English | <u>العربية</u> | 中文 | <u>Español</u> | <u>Français</u> | <u>Русский</u>

Support from over 1850 scientists & practitioners from over 80 countries

Please sign and get others to sign!



https://www.ipcp.ch/activities/developing-a-global-science-policy-body-for-chemical-pollution; https://www.ipcp.ch/activities/global-chemicals-waste-management-workshop-on-grand-challenges-opportunities

Path towards UNEA 5.2

Agrees that a science-policy panel should be established to support action on chemicals, waste and pollution

Agrees that the principal functions of the panel should be to:

 (i) undertake horizon scanning and identify issues of concern

 (ii) undertake assessments
 (iii) communication and outreach

 Agrees that the panel should be an autonomous intergovernmental body
 Decides to establish an ad hoc OEWG ...

Draft resolution for a Science-Policy Panel to support action on chemicals, waste and pollution

Submitted by Costa Rica, Ghana, Mali, Switzerland, United Kingdom of Great Britain and Northern Ireland, and Uruguay

Version: 10.12.21

Contact: michel.tschirren@bafu.admin.ch

https://tinyurl.com/4mses6b3

New Co-sponsors are still welcome!

Path towards UNEA 5.2



Support at UNEA5.2 is also key!



Now countries are forming their position for UNEA5.2!

What You Can Do

□ Write a letter to your Minister of

- Environment
- Health
- Foreign Affairs
- □ Also send a letter to influential policymakers
- Please share your letter with colleagues and/or get co-authors

Preferably after the New Year



Content of the letter

- 🗖 Ca. 1 page / brief
 - Background importance for urgent global action (e.g. impacts, UNEP's working priorities for 2022-25 are Chemical Pollution, Climate Change & Biodiversity)
 - □ Why we need a new SPI body and some key considerations
 - □ I [urge] you/the Government of XYZ to support the draft resolution as a co-sponsor of the draft resolution, or at UNEA5.2 scheduled for Feb 28- March 2, 2022
 - □ Please inform me about the Minister's/government's position
- □ Culturally appropriate language!
- □ Model letter: <u>https://tinyurl.com/muctj7r7</u>

And Finally ...

- □ Please let us know if you've sent a letter!
- Please feel free to share your letter in your language for sharing on the IPCP website: <u>admin@ipcp.ch</u>



Thank You!

Please

- sign our support campaign
- send a letter to your minister & let us know
- encourage your colleagues to participate

Model letter in English and hopefully other languages is available at: <u>https://www.ipcp.ch/news/model-</u> <u>letter-to-policymakers</u>

