

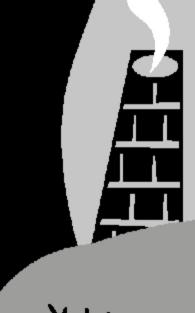
TOXIC RECYCLING How to Avoid Poisoning the Recycling Chain?

The BIR World Recycling Convention in Prague, 27-10-2015

Jindrich Petrlik - IPEN Dioxin, PCBs and Waste WG co-chair

Executive director of Arnika - Toxics and Waste Programme







ARNIKA toxické látky a odpady

Persistent Organic Pollutants (POPs) in wastes

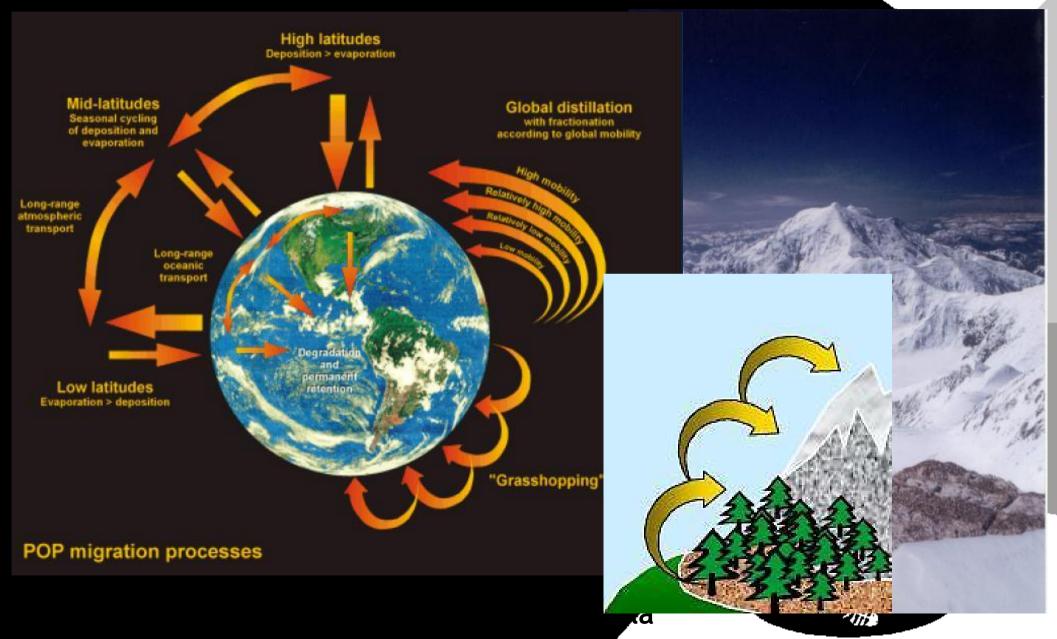
Chemical substances listed under Stockholm Convention on POPs

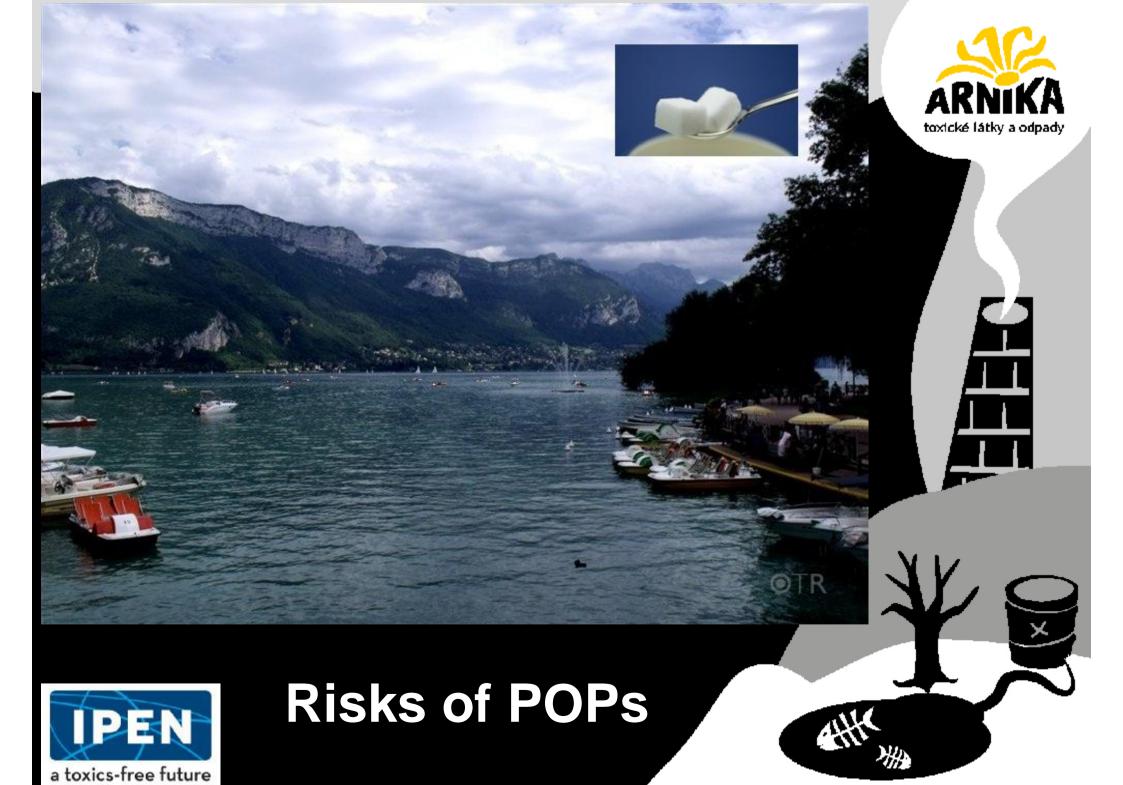
E.g. dioxins (PCDD/Fs), brominated flame retardants (polybrominated diphenylethers - PBDEs, hexabromocyclododecane – HBCD), polychlorinated biphenyls (PCBs), chlorinated pesticides (DDT, HCHs, HCB etc.)



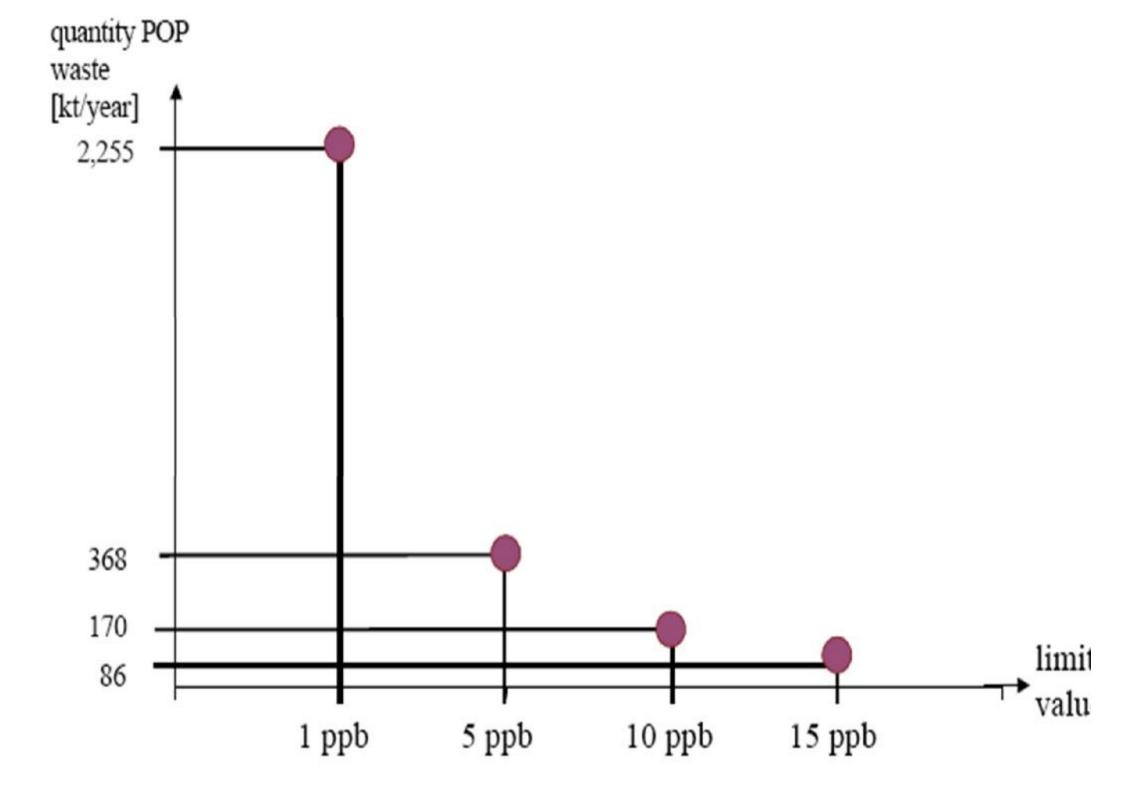
POPs travel long distances



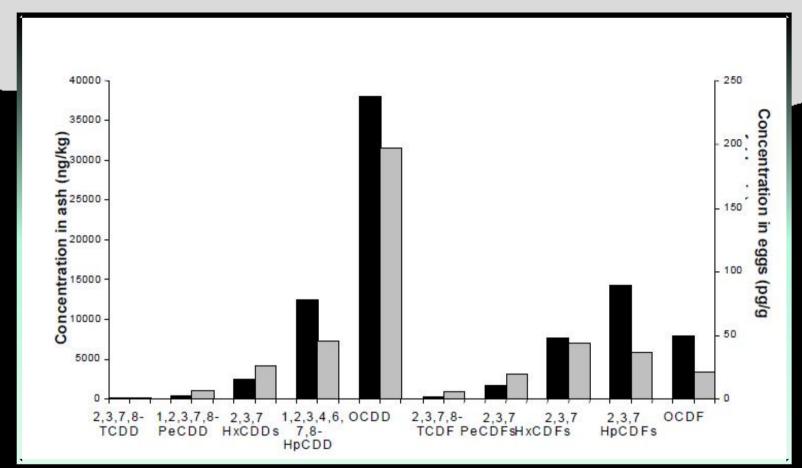




Risks of POPs – low POPs content ARNIKA









Fingerprints of dioxins (PCDD/Fs) in fly ash from Byker waste incinerator and chicken eggs from alotments in Newcastle, where free range chicken were raised near the paths paved with fly ash.

PCDD/Fs in ASH = 4.2 ppb; chicken eggs = up to 56 ppt TEQ (3 ppt TEQ EU limit at that time)



Toxic Recycling 🚳 POPs in Recycled & New Products

Under the guise of "recycling," the POPs Treaty is allowing the continued use and global distribution of POPs.

The Brominated Flame Retar-**OLD PRODUCTS** dants, PentaBDE and OctaBDE have been used in a wide variety of consumer products for many years. In 2009 POPs of global concern that need to be eliminated like PCBs and the other POPs listed in the Stockhalm Convention Tops & Bops

POPS EXPOSURE: CHILDREN



letardants (e.g. with other substances

POPS EXPOSURE WORKERS

DILUTION OF POPS INTO NEW PRODUCTS IS NOT THE SOLUTION TO PROTECT CHILDREN FROM THE POLLUTION OF BROMINATED FLAME RETARDANTS. IT ENSURES **BROADER EXPOSURE AND** MORE HARM.

"Failure to [stop recycling] will inevitably result in wider human and environmental contamination and the dispersal of brominated diphenyl ethers into matrices from which recovery is not technically or economically feasible and in the loss of the long-term credibility of recycling."

toxické látky a odpady



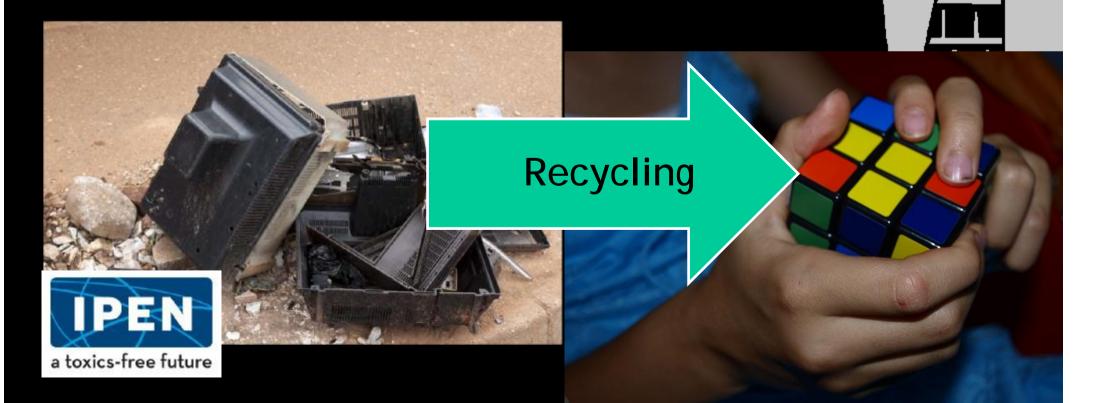


Basel Convention

Control of transboundary movement of e-waste and POPs waste

Stockholm Convention (SC)

Treatment of POPs waste – definition of low POPs content is crucial (article 6 of the SC)





Provisional low POPs content levels

POP	LPL		
PBDEs (hexa-, hepta-, penta-, tetra-)	50 or 1000 ppm		
HBCD	100 or 1000 ppm		
PCDD/Fs	15 ppb		
All other POPs under SC	50 ppm		







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toxické látky a odpady







TOXIC TOY OR TOXIC WASTE: **OLD POPS IN NEW PRODUCTS**

SUMMARY FOR DECISION-MAKERS





Jitka Strakova Joe DiGangi, Ph.D.

May 2015















Type	made in	Country of purchase	OctaBDE (ppm)	DecaBDE (ppm)
Rubik's cube & other toys	Mostly China	Czech Republic	0 - 95	2 - 121
Rubik's cube	China	Germany	1	3 - 4
Rubik's cube	Not labeled	Hungary	6	58
Rubik's cube	China	Poland	0 - 51	0 - 79
Rubik's cube	China	Slovakia	26	98
Rubik's cube	Not labeled	Sweden	0	0



STOP Toxic Recycling 4



a toxics-free future





Jindrich Petrlik, executive director of Arnika – Toxics and Waste Programme, and co-chair of Dioxin, PCBs and Waste Working Ground IPEN (International POPs Elimination Network)

http://english.arnika.org/
http://www.ipen.org

Thank you for your attention



