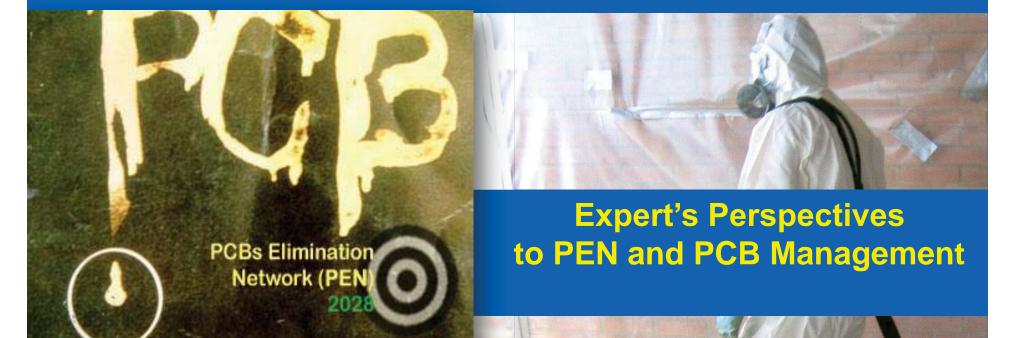
PCBs Elimination Network (PEN)



6 May 2013 – Ex COPs Side Event Geneva / Switzerland

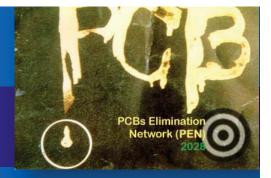








PEN 2013 - I



- Real start in November 2010, Ocho Rios Meeting
- First Inputs from the 4 Working Groups: Inventories, Maintenance, Disposal and Open Application
- Publication PEN Magazine 1st edition about Inventories
 in six UN languages
- ✤ Lessons learnt:
 - magazine was well received / appreciated
 - difficult to keep information actual due to dynamic development
 - translation/printing (too) expensive
 - \rightarrow therefore proposal to keep it electronic only in future
- 2nd edition theme initially:
 Maintenance & Interim Storage

CBs Elimination Network (PEN 2020

PEN 2013 - II

POPs Social

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- Idea based on Facebook
- the virtual world in the Net offers opportunities ... but ...
- Development of Guidelines for "Inventory" (Jinhui Li) and "Maintenance" (Anna Ortiz)
 - Basis: what is available and then to adopt, adapt and improve
 - \rightarrow Unfortunately up to now most is just copy/paste
 - \rightarrow SBC claims to keep the lead with Guidelines

Development of first Factsheets about OA

- Drafts for two Factsheets (Industry and Private) ready since 2011
- Photo Booklet Identify and Manage Open Applications in an Environmentally Sound Manner shall be ready for publication in autumn 2013



PEN 2013 - III

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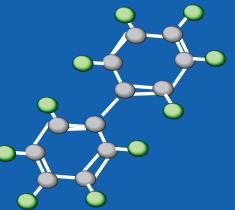
- 2011: COP-5 Decision to facilitate transition of leadership from SSC to UNEP Chemicals ... but since:
 - uncertainty if/how to proceed
 - most activities were on hold

What should be done to strengthen PEN:

- Leadership needs time
- Acceptance by the COP Parties
- Opportunities to provide assistance/know how in (regional) workshops
- Funds for the PEN activities
- AC needs:
 - motivated and ACTIVE Board Members
 - familiar with at least some of the PCB Topics
 - support by their nominating Regions/Countries/Organizations

Useful PEN outputs until next COP

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PCBs Elimination Network (PEN)



Disposal (Combustion & Non Combustion)

- \rightarrow approved technologies are available
- \rightarrow (too) high transportation costs
- \rightarrow despotic hurdles regarding transboundary m.
- \rightarrow consider pro & cons of mobile units







Priority in all Regions

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→ We need "Ccomplete" Inventories / Assessments
 → only fractions of equipment yet screened / analysed
 → PCB estimations → usually too high or too low



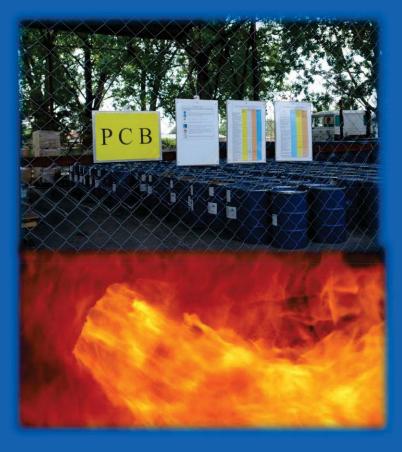
insufficient characterisation of type of problem



Disposal instead of more report with succes stories...









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• Cross Contamination

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- → Consider Maintenance & Oil Recycling as a "Grey Zone"
- → Establish a mechanism to prevent cross contamination during O & M (filtering, etc.)
- → Establish system for easy recognition of PCB equip./oil
- → Ensure better O & H Management (Hygiene)









Awareness Raising & Capacity Building





Adequate Communication on different (all) levels

including Decision Makers AND Workers



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Controlled Recycling and Disposal?



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There are plenty of Guidelines AND Regulations ... what remains the problem?!



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and Control





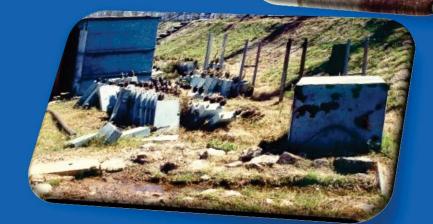


Even more important than Regulations:

Prevention is much CHEAPER and EASIER than remediation!



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Overlapping of PCB and Asbestos Applications







SC, Annex A, Part II, PCB (f)

In lieu of note (ii) in Part I of this Annex, endeavour to identify other articles containing more than 0.005 % PCB (e.g. cable-sheaths, cured caulk and painted objects) and manage them in accordance with paragraph 1 of Article 6.





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Cables (impregnated, flame retardants)
 Ceilings / Wood protection
 Industrial and housing floors
 Corrosion Protection Paint
 Heating Oil Tanks and Radiators



→ Are such applications only a problem in Western Europe and USA?



China considered Paint in their Inventory



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8 Companies were dealing with PCB containing paint

The main part of production is still in use -> but where



Summary: Extract of main Sources of Diffuse PCB Pollution I

- Emissions from known, closed <u>and open</u> applications
- PCB from not yet identified former productions and applications
- Improper disposal of small capacitors and contaminated motor, transformer, hydraulic and lubricating oils
- ✤ Additive in corrosion protection coatings and paints
- Illegal and legal dumping
- Known landfill sites
- ✤ Use as flame retardant

Extract of main Sources of Diffuse PCB Pollution I

- Cables and cable casings/coatings
- ✤ Use of PCBs in the shipbuilding industry



- Buildings/Plants but also Floors from transformer substations or sites were PCBs used to be handled
- Use of PCBs as impregnating agent for wood
- Pesticide formulation
- ✤ Resh





Military use of PCB containing products



Some Conclusions

- Approved Disposal & Treatment Technologies are available
- The costs are transparent & fair, however the transportation remains a costly and often risky issue
- Appropriate (not luxury) interim storages shall be available
- The current Focus should be on adaptation of existing inventories, prevention of further unnecessary cross contamination and unintentional formation of PCDD/PCDF and of course DISPOSAL!
- Therefore it is a must to further develop respectively adapt Guidelines and incorporate appropriate AR and CB Strategies considering all stakeholders and all levels of Workers and Management



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PCB'S