

Programme of the ESBs conference 2019, Stockholm, Sweden

Monday (3rd of June)

8.30-10.00 Registration, poster set-up & coffee

10.00-10.20 Welcome & Opening of the conference

10.20-11.05 Keynote speaker, Derek Muir (Environment and Climate Change Canada): "The importance of ESBs for assessment of new/emerging contaminants in biota, with an AMAP perspective"

11.10-12.30 Session 1: The role of ESBs for regulation and legislation of chemicals, conventions and AMAP

11.10 The AMAP Core Programme – Monitoring, retrospective analyses and screening of contaminants in high-trophic level animals from Greenland. *Katrin Vorkamp*

11.30 Using archived polar snow and ice samples for analysis of persistent, bioaccumulative and toxic compounds: Considerations from 19 years of experience. *Mark H. Hermanson*

11.50 Long-term monitoring of contaminants and their effects in aquatic biota, illustrated by a case study of PFOS in guillemot egg. *Elisabeth Nyberg*

12.10 How do age, size and trophic level of freshwater fish influence the tissue levels of priority substances? *Heinz Rüdél*

12.30-13.30 Lunch break (Poster set-up)

13.30-15.10 Session 2: ESBs and present monitoring programmes in different countries

13.30 Something old and something new: Environmental specimen banks and contaminant monitoring in Canada. *Daryl J. McGoldrick*

13.50 Status Report of Environmental Time Capsule Program at the National Institute for Environmental Studies, Japan. *Yasuyuki Shibata*

14.10 Predators, arctic air and sewage sludge – the Norwegian Environmental Specimen Bank, a time capsule for the future. *Morten Jartun*

14.30 The use of German environmental ESB data in chemical management and monitoring. *Jan Koschorreck*

14.50 Environment pollutants in mussels (*Mytilus coruscus*) and eggs of black-tailed gull (*Larus crassirostris*). *David Chung*

15.10-15.40 Coffee break

15.40-16.20 Session 2: ESBs and present monitoring programmes in different countries

15.40 Comprehensive mercury monitoring in aquatic and terrestrial samples from the German environmental specimen bank: matrix comparisons, spatial comparisons and temporal trends over three decades. *Heinz Rüdél*

16.00 The Development of Yangtze Environmental Specimen Bank (YESB). *Xiangzhou Meng*

16.20-16.25 Wake-up & body-stretch break

16.25-17.45 Session 3: The use of ESBs in research

16.25 Snapshots from the Swedish national contaminant monitoring programmes. *Sara Danielsson*

16.45 Retrospective investigation of cyclic volatile methylsiloxanes in archived German fish samples over two decades. *Georg Radermacher*

17.05 Determination of emerging substances in top predators and their prey using state-of-the-art chemical monitoring methods. *Nikiforos Alygizakis*

17.25 Short-, medium-, and long-chain chlorinated paraffins found in wildlife from Scandinavia. *Bo Yuan*

17.45-18.30 Free time to explore the exhibitions of the Swedish Museum of Natural History

18.30-21.00 Poster mingle with food and drinks (in the Linnérummet)

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Tuesday (4th of June)

9.00-9.45 Keynote speaker, Karin Wiberg (Swedish University of Agricultural Sciences): "Unraveling the sources of dioxins in sediments and fish of the Baltic Sea"

9.45-10.15 *Coffee break*

10.15-11.55 Session 4: Future possibilities within ESBs

- 10.15 The mussel archive: Can stable nitrogen isotopes help improve interpretation of long-term time series of contaminant data? *Agnes ML Karlson*
- 10.35 Compound-specific stable nitrogen isotope analysis combined with stable mercury isotopes provide insights into pathways of mercury exposure to wildlife. *Craig Hebert*
- 10.55 eDNA banking, the Global Genome Biodiversity Network (GGBN), and the ZFMK Biobank. *Jonas J. Astrin*
- 11.15 eDNA Metabarcoding from Suspended Particulate Matter (SPM) for fish community monitoring. *Cecilia Díaz*
- 11.35 Remote retrospective histopathological analysis of samples from stranded marine mammals by means of the use of in silico stored high resolution histological images: a pilot experience in Biscay Bay. *Xabier Lekube*

11.55-13.10 *Lunch break (in the Linnérummet)*

13.10-14.50 Session 5: Best practise and quality assurance within ESBs and monitoring

- 13.10 Air as an important abiotic matrix for environmental specimen banking – why and how. *Anne Karine Halse*
- 13.30 Organic contaminants in the indoor environment of ESB laboratories – risk for ESB samples? *Pernilla Bohlin-Nizzetto*
- 13.50 The NIST Biorepository: Best Practice Standards for Archiving Biospecimens and Associated Data. *Rebecca S. Pugh*
- 14.10 Quality assurance during sampling, sample preparation, biometric characterisation and transport in the German ESB. *Diana Teubner*
- 14.30 Implementation of the EU ABS Regulation at the Swedish Museum of Natural History – practical examples and lessons learned. *Irene Bisang*

14.50-15.20 *Coffee break*

15.20-17.00 Session 6: Health-related monitoring

- 15.20 Persistent Organic Pollutants and Climate Change: Assessing Global Risks to Marine Mammals Across Three Oceans. *Susan D. Shaw*
- 15.40 The Swedish Environmental Specimen Bank – a gold mine to study spatial and temporal dynamics of emerging infectious diseases in small mammals. *Frauke Ecke*
- 16.00 Determination of the nematode parasites *Pseudoterranova decipiens* and *Contraecaecum osculatatum* in the stomach of grey seals, ringed seals and harbor seals from Sweden. *Sara Persson*
- 16.20 Is the pollution in English freshwater fish harmful to them and/or their predators (including humans)? *Monika D. Jürgens*
- 16.40 Bilbao estuary pollution monitoring programme: retrospective studies of the environmental health status using sole (*Solea spp.*) as sentinel species. *Urtzi Izagirre*

If previously booked:

18.30-23.00 Conference dinner (at the Stora Skuggans Vårdshus)

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Wednesday (5th of June)

(8.30-9.00) Poster take down (or during the morning coffee break)

9.00-10.00 Session 7: Top predators in ESBs and monitoring

9.00 Contaminants in Swedish otters – a successful example of the use of ESB. *Anna Roos*

9.20 High concentrations of PFCs in Eurasian otters from the UK: spatial drivers of contamination.
Elizabeth A. Chadwick

9.40 A tale of feathers: bird of prey feather collections archive long-term environmental contamination.
Igor Eulaers

10.00-10.30 Coffee break & Poster take down

10.30-11.30 Panel discussion

11.30-12.00 Closing ceremony & Invitation to the next ESB in 2021

If previously booked:

12.15-13.15 Lunch break (in the Botanical Garden)

13.30-15.00 Guided tours through the ESBs and facilities/collections of the Swedish Museum of Natural History