

## 4th International Conference on Environmental Specimen Banks. Bilbao, 2-4 October 2017

### SCIENTIFIC PROGRAM

#### 2<sup>nd</sup> of October (Monday)

9:00-10:30. **REGISTRATION.**

10:30- 11:00. **WELCOME COFFEE** and **POSTER HANGING-UP**

11:00-11:15. **WELCOME.** Manu Soto (UPV/EHU)

11:15-12:15. **OPENING SESSION.** Chair: ALBERTO DE DIEGO (UPV/EHU)

**11:15-11:45. Opening talk**

*Maite Alvarez (DNA biobank, SGiker, UPV/EHU). Biobanks: our legacy*

**11:45- 12:15. SESSION 1. Spatial and temporal trends for emerging contaminants**

*Monika D. Jürgens, Andrew C. Johnson. Monitoring of metal contamination in freshwater fish in England – The UK National Fish Tissue Archive at 10 years old.*

12:15-13:00. POSTER SESION 1. **Spatial and temporal trends for emerging contaminants**

*Spotlights of posters from Session 1. Authors will explain posters in 5 minutes.*

<b>SESSION 1.- Spatial and temporal trends for emerging contaminants</b>	
Burkhard Knopf, Boris Meisterjahn, Nicola Schröder, Heinz Rüdél, Jan Koschorreck	Development of a method for the analysis of nanoparticles in homogenized biota tissue from the German Environmental Specimen Bank
Matthias Kotthoff, Heinz Rüdél, Mark Bücking, Anton Friesen, Jan Koschorreck	Determination of Anticoagulant Rodenticides in freshwater fish and suspended particulate matter samples from the German Environmental Specimen Bank: Spatial and Temporal Distribution
Kohl Y, Aengenheister L, Ellinger B, Buechel C, Apel, P, Emmerling C, Jost C, Buerki-Turnherr T, Scholz F, Straskraba S, Gruen A L, Diehl P., Greupner M., Lermen D., Klein T., Meier F.	Risk assessment of nanomaterials in the environment.

13:00-14:30. LUNCH

**14:30- 15:00 (cont). SESSION 1. Spatial and temporal trends for emerging contaminants**

*Chairs: ALBERTO DE DIEGO (PiE-UPV/EHU) & CATHERINE MUNSCHY (IFREMER)*

Catherine Munschy, Nadège Bely, Karine Héas-Moisan, Nathalie Olivier, Charles Pollono, Bruno Veyrand, Philippe Marchand Céline Tixier. Contamination levels and temporal trends of selected emerging pollutants in the French coastal marine environment.

15:00-18:00. TECHNICAL SEMINAR (with coffee-break)

**Technical solutions for managing ESBs.** Jokin Elzo; Maria Lacalle, Sonia Pavloff (NORAYBIO, Co) & Xabier Lekube (PiE-UPV/EHU)

18:00-20:00. SOCIALS: Wine & Pintxos (Bizkaia ARETOA).

## 3<sup>rd</sup> of October (Tuesday)

9:00 – 11:30. SESSION 2.- Long term trends & monitoring programs: case studies.

*Chairs: ANDERS BIGNERT (Stockholm Univ.) & MANU SOTO (UPV/EHU)*

1. Diana Teubner, Axel Hochkirch, Michael Veith, Martin Paulus. Journey into the past: Using archived ESB samples to reconstruct the invasion history of the quagga mussel (*Dreissena bugensis*) in German river systems.
2. Charlotte Wesch, Marie Mink, Roland Klein, Martin Paulus. Monitoring microplastics in fish samples from the German Environmental Specimen Bank: Case studies.
3. Xiang-Zhou Meng, Yang Xu. Organic Contaminants in Chinese Sewage Sludge: Developing A Chinese National Sewage Sludge Survey.
4. Nina Lohmann, Frank Neugebauer, Annekatrin Dreyer, Heinz Ruedel, Diana Teubner, Jan Koschorreck. Dechlorane Plus (DP) and other (novel) brominated flame retardants (BFR) in biota samples and suspended particulate matter of the German Environment Specimen bank.

11:30-12:00. Coffee-Break

12:00 – 13:00. POSTER SESSIONS 2, 3

*Spotlights of posters. Authors will explain posters in 5 minutes.*

<b>SESSION 2.- Long term trends &amp; monitoring programs: case studies.</b>	
Sophie Lardy-Fontan , Mohamed Megharfi, Jean-Patrick Verron, Frédérique César, Catherine Galy, Béatrice Lalere	Why Collaboration Between National Metrology Institute and Environmental Specimen Bank: A French demonstration between LNE and Andra's Ecotheque
Georg Radermacher, Burkhard Knopf, Martin Paulus, Jan Koschorreck, Heinz Rüdél	Retrospective monitoring of butyltin in fish and mussels from German marine and freshwater sites
Javier Aguirre-Rubí, Larraitz Garmendia, Maren Ortiz-Zarragoitia, Beñat Zaldibar, Urtzi Izagirre, Maria Múgica, Manu Soto, Ionan Marigómez	Seasonality and its inter-annual variability in biomarkers recorded in sentinel mussels in the biomonitoring programs from the Bay of Biscay (2008-2012)
Xabier Lekube, Urtzi Izagirre, Manu Soto, Ionan Marigomez	The Biscay Bay Environmental Biospecimen Bank (BBEBB): biological effects matters
Ainara Gredilla, Silvia Fernández-Ortiz de Vallejuelo, Azibar Rodríguez-Iruretagoiena, Gorka Arana, Juan Manuel Madariaga, Alberto de Diego	Spatial distribution and evolution in time of metals and metalloids present in sediments of the estuary of the Oka River (Urdaibai, Basque Country)
Sergio Seoane, Aitor Laza-Martínez, Llorente A, Iosu Madariaga.	Basque Microalgae Culture Collection (BMCC)
<b>SESSION 3. Assessing contaminants and health status of marine mammals</b>	
Cinzia Centelleghé, Sandro Mazzario, Bruno Cozzi	The Mediterranean Marine Mammal Tissue Bank, Italy
Idoia Meaza, Leire Ruiz, Pablo Gardeazabal, Urtzi Izagirre, Xabier Lekube, Manu Soto.	New marine mammal catalogue in the Biscay Bay Environmental Bioespecimen Bank.

13:00-14:30. LUNCH

**14:30 – 16:00. SESSION 4. Non Target Screening and environmental specimen banking.**

*Chair: Nestor Etxebarria & Olatz Zuloaga (UPV/EHU)*

1. Wiebke Dürig, Karin Wiberg, Anders Bignert, Lutz Ahrens. Non-target screening of emerging pollutants in archived biota
2. Haizea Ziarrusta, Leire Mijangos, Mireia Irazola, Olatz Zuloaga, Maitane Olivares, Aresatz Usobiaga, Ailette Prieto, Nestor Etxebarria. The needs and opportunities of non-targeted analytical methods in specimen biobanking.

**16:00-16:30. Coffee-Break and POSTER SESSION 4**

<b>SESSION 4. Non Target Screening and environmental specimen banking.</b>	
Anne Togola, Sophie Lardy-Fontan, François Lestremou, Christelle Margoum.	Non-target screening and environmental specimen banking: French perspectives

**16:30-18:00. SESSION 5. New ideas and applications for environmental specimen banks.**

*Chairs: JAN KOSCHORRECK (UBA) & XABIER LEKUBE (UPV/EHU)*

Oral contributions to this Session will consist of 5 minutes talks on “hot” topics. Powerpoint support is not compulsory. Round table will follow together with posters spotlights.

1. Pablo Markaide, Nerea Duroudier, Peio Pascual, Enrique Navarro, Eider Bilbao. Mitochondrial DNA based method for gender determination in mussels *Mytilus galloprovincialis* tissues
2. Xabier Lekube, Urtzi Izagirre, Ionan Marigómez, Manu Soto. High Resolution Microscopical Images of Tissues of Marine Organisms Archived in Biobanks
3. Tifanie Briaudeau, Esther Blanco-Rayon; Ionan Marigómez, Xabier Lekube, Urtzi Izagirre. Tissue-arrays as high-throughput technology for retrospective histological studies
4. Heinz Rüdell, Christian Schlechtriem, Verena Kosfeld, Caren Rauert, Jan Koschorreck. Using ESB sampling as basis for food web magnification studies for chemicals
5. Verron JP, Cesar F, Brocard G, Lardy-Fontan S, Lalere B, Yardin C, Conil S, Redon PO, Villeneuve A, Galy C. Archiving a territory: Challenges and Opportunities.
6. Sara Danielsson, Henrik Dahlgren, Caroline Ek, Douglas Jones, Eva Kylberg, Elisabeth Nyberg, Jill S Öhlund, Anders Bignert. How to archive biological samples for future environmental questions in ultra-low temperatures and what additional information can these samples provide?
7. Franziska-Frederike Wege, Cecilia Andrea Diaz Navarette, Gisela Böhle, Matthias Teigeler, Christoph Schäfers, Heinz Rüdell, Elke Eilebrecht, Jan Koschorreck. Metabarcoding of eDNA from Suspended Particulate Matter (SPM) for fish population monitoring

**POSTER SESSION 5**

<b>SESSION 5.- New ideas and applications for environmental specimen bank.</b>	
Jokin Elzo, Ainhara Yarritu, Xabier Lekube, Manu Soto	New Software Challenges For Biobanks: BBEBB, The Biscay Bay Environmental Biospecimen Bank
Endika Gil-Uriarte, Urtzi Izagirre, Xabier Lekube, Ionan Marigomez, Manu Soto	Molluscan shells repository in Environmental Specimen Banks: case study of alien species monitoring ( <i>Xenostrobus securis</i> ) in the Basque Coast.
A. Rizzo, C. Telloli, P. Bartolomei, M. Ferrando, S. Salvi	Historical Archive of Carbon Dating Samples at Enea Laboratory

**20:30. SOCIALS: Congress Banquet. Guggenheim Museum.**

## 4<sup>th</sup> of October (Wednesday)

The symposium will move to Plentzia Marine Station.

Buses will depart from Bizkaia Aretoa (Symposium venue) at 9:00 am.

### 10:00-11:00. SESSION 6. ESB as a tool in EU directives and regulation compliance

*CHAIRS: NICOLAS PADE (EMBRC-FR, UPMC) & IBON CANCIO (UPV/EHU)*

1. Annette Fliedner, Heinz Rüdell, Georgia Buchmeier, Nina Lohmann, Jan Koschorreck. The German ESB as tool in Water Framework Directive compliance monitoring
2. Ibon Cancio, Nicolas Pade, Antonio Villanueva. Atlantic area Marine Bioresource Biobanks, fostering Blue Biotechnology while applying benefit sharing regulations on access to genetic resources

11:00 – 12:30. Coffee-Break and Visit to the **Biscay Bay Environmental Biospecimen Bank** (BBEBB) and to the installations of Plentzia Marine Station (University of the Basque Country)

### 12:30-13:00. WRAP-UP, CONCLUSIONS AND FUTURE PERSPECTIVES OF BIOBANKS

*JAN KOSCHORRECK (UBA) & MANU SOTO (UPV/EHU)*

### 13:00-13:30. CLOSING TALK

*Nicolas Pade (EMBRC-France, UPMC). Charting a course through the Alphabet Soup: CBD, ABS, AONBs, PICs, MATs and a Protocol from Nagoya.*

13:30- 15:00. Wine & Pintxos & Basque Music seminar (*txalaparta*) in PiE terrace

15:00. Bus departure to Bilbao (Bizkaia Aretoa)