



université  
de BORDEAUX

EPOC

## International restitution symposium

Conservation of freshwater bivalves and  
restoration of upstream catchment habitats

5, 6, 7 and 8<sup>th</sup> november 2019  
Périgueux, Dordogne, FRANCE

**LIFE 13 NAT/FR/000506**

***Preservation of Margaritifera margaritifera and restoration of the  
ecological continuity of the Upper Dronne***

**SCHEDULE AT A GLANCE**



## PRESENTATION

Since 2014, The Regional Natural Park of Périgord-Limousin has coordinated the LIFE 13/NAT/FR/000506 project “Restoration of the ecological continuity and preservation of pearl mussels”, co-led by the UMR EPOC (Ocean and Continental Environments and Paleo-Environments) from the University of Bordeaux. In the short term, the aim of this project is to create favorable conditions for the maintenance of the *Margaritifera margaritifera* population of the Haute Dronne river and, in the long term, to allow its increase to make it viable.

To this end, ecological continuity restoration work has been carried out on the main obstacles to continuity: bushed bridges, dams and lakes. It helps to restore habitats in the main stream of the Dronne river and its tributaries. In parallel, a mussel breeding station has been set up. Its functioning is ensured by the EPOC laboratory. It allows the reinforcement of the populations in the natural environment, but also the understanding of the impact of various environmental factors and metal trace elements on the juveniles, which represent the most sensitive phase of life for this species.

This restitution symposium will present the main advances of the program and highlight other equivalent projects carried out on the national and European territory. The topics will focus on the conservation of freshwater bivalves, the improvement of knowledge on these species and the restoration of upstream catchment habitats.



*The gorges of Haute-Dronne river in Saint-Saud-Lacoussière (24)*

## SCHEDULE AT A GLANCE

### TUESDAY 5<sup>th</sup> NOVEMBER

18:00 Registration and information  
18:30 Opening Speeches and award of the Wild rivers sites label  
19:30 Cocktail reception

### WEDNESDAY 6<sup>th</sup> NOVEMBER

#### 8:00 REGISTRATION AND COFFEE

#### 9:00 - 12:30 / SESSION 1: HABITATS RESTORATION

9:00 - 9:30 Introducing the Life Haute Dronne program: the first results  
*Natali TOSTES DE SOUZA - Périgord-Limousin Regional Natural Park*  
9:30 - 9:50 A cross-cutting approach of a public institution in the financial lever  
*Benoit WIBAUX - Water Agency of Adour Garonne*  
9:50 - 10:10 Quality of water bodies in watershed heads and impact on continuity  
*Gilles GUIBAUD - Limoges University*  
10:10 - 10:30 Preventive archaeology in restoration work  
*Rafaël GESTREAU - DRAC Nouvelle Aquitaine*

#### 10:30 - 11:00 COFFEE BREAK

11:00 - 11:30 Restoration of ecological continuity on the Glane river at Giraud Ford  
*Yoann BRIZARD – Joint association of Bassin de la Vienne*  
11:30 - 12:00 From the inventory of the vienna department's mussels to their consideration in the restoration of the rivers  
*Miguel GAILLED RAT - Vienne Nature*  
12:00 - 12:30 Restoration of Boreal Nordic Rivers - ReBorN LIFE  
*Patrik OLOFSSON - County Administrative Board of Norrbotten, Lulea (SWEDEN)*

#### 12:30 - 13:30 LUNCH

#### 14:00 - 17:30 / SESSION 2: BREEDING AND POPULATION ENHANCEMENT

14:00 - 14:30 Conservation of the pearl mussel in Brittany  
*Pierre-Yves PASCO - Bretagne Vivante association*  
14:30 - 14:50 Culture of freshwater mussels in Europe. An overview and experiences  
*Frankie THIELEN - natur&ëmwelt (LUXEMBOURG)*  
14:50 - 15:10 Holistic approach to the release of captive-bred freshwater pearl mussels, from genes to river catchment management  
*Thomas SCHILLER - Dresden University of Technology (GERMANY)*  
15:10 - 15:30 In search of the surrogate host fish of *Margaritifera auricularia*  
*Nina RICHARD – Tours University*

#### 15:30 - 16:00 COFFEE BREAK

16:00 - 16:20 Propagation of freshwater mussels in Luxembourg : searching for a more adapted diet  
*Frisch MICHEL - natur&ëmwelt (LUXEMBOURG)*

16:20 - 16:40 Habitats monitoring and reinforcement of *Margaritifera margaritifera* in the Life Haute-Dronne

Meriem GREGORI - Périgord-Limousin Regional Natural Park

16:50 - 17:10 Translocation as a conservation measure for protecting freshwater mussels - experiences with *Unio crassus* in Poland

Tadeusz ZAJĄC - Institute of Nature Conservation of Polish Academy of Sciences (POLAND)

17:10 - 17:30 Comparison of reinforcement systems used and tested since 2015

Maria RIBEIRO - CPIE 61

17:30 - 19:00 POSTER SESSION

#### 19:00 DINER WITH ENTERTAINMENT

Introducing a cultural mediation tool for the Life program and diner at the restaurant

### THURSDAY 7<sup>th</sup> NOVEMBER

#### 8:00 : COFFEE

#### 8:30 - 12:00 / SESSION 3: IMPROVING BIVALVES KNOWLEDGE

8:30 - 9:00 Ecotoxicological study of the impacts of metal contamination on *Margaritifera margaritifera* in the Dronne River, France

Magalie BAUDRIMONT- Bordeaux University

9:00 - 9:30 Changes in the isotopic composition (18O and 13C) of *Margaritifera margaritifera*

Bruno MALAIZE - Université de Bordeaux

9:30 - 10:00 Estimated conservation status and habitat quality of *Margaritifera margaritifera* in Northern Ance and Arzon (Auvergne-Rhône-Alpes region)

Hervé Lelievre - Crexeco

#### 10:00 - 10:30 COFFEE BREAK

10:30 - 11:00 Chronic effects of nitrates, phosphates and temperature on the gene expression of juvenile of *Margaritifera margaritifera*

Tiare BELAMY - Bordeaux University

11:00 – 11:30 Predicting impacts of climate change on survival and growth of freshwater pearl mussels in Vogtland

Annekatriin Wagner - University of Technology, Dresden (GERMANY)

11:30 - 12h Searching for adequate juvenile settling locations for *Margaritifera margaritifera*: an integrative approach using population dynamics and habitat characterization

Joaquim REIS - Lisbon University of Science (PORTUGAL)

#### 12:00 – 13:00 LUNCH

#### 13:00 – 17:00 / SESSION 4 : FIELD TRIPS

- **Itinerary 1 : Breeding station and reintroduction of *Margaritifera margaritifera* (French or English)**

Visit of the Freshwater mussel breeding station at Firbeix

Field trip: Reintroduction methods, population monitoring and relocation related to dam removal works



- **Itinerary 2: Obstacles removal and socio-economic impacts in the commune of Saint-Pardoux-la-rivière: two examples of work cases (FR)**  
Town centre worksite: social impacts and public relation in an urban context  
Tannery of Chamont worksite: Reconcile ecological continuity and local economy
- **Itinerary 3: Meeting a wild river (FR)**  
Field trip: Visiting a removal site  
A 3 km walk along the Dronne river: Presentation of its characteristics and its biodiversity, debate around the impacts of ponds on the water quality. Presentation of the Wild River label objectives  
Plan to bring walking shoes and rain clothes

### FRIDAY 8<sup>th</sup> NOVEMBER

8:30 – 12:00 Review and perspectives / access reserved for the scientific committee of the symposium

## PRACTICAL INFORMATION

**When?** From 5<sup>th</sup> to the 8<sup>th</sup> of November, 2019

**Where ?** Centre de la communication - 1, cours Saint-Georges - 24000 Périgueux, FRANCE

### **How to get there ?**

By train: Périgueux Station (20 minutes' walk away)

By plane: Bordeaux-Mérignac airport

By car: GPS 45.1801382,0.7226582,17

**Registration : from 01/07/19 to 20/10/19 : <https://life-haute-dronne.eu>**

### **Limited seating**

**Registration fee :** 150 € senior and 100 € students (including Tuesday cocktail, Wednesday and Thursday lunch and Wednesday dinner)

### **Contact organisation**

Fanny LABROUSSE - [f.labrousse@pnrpl.com](mailto:f.labrousse@pnrpl.com)

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<https://life-haute-dronne.eu>

