

International seminar *Monitoring and restoration of freshwater (mussel) habitats*

Tuesday 27th November – Thursday 29th November 2018

Clervaux, Luxembourg



5th announcement

*Restoration of *Unio crassus* rivers in the Luxembourgish Ardennes
LIFE11 NAT/LU/857*

Dear colleagues,

In Luxembourg, more than 80% of the wetlands and their related habitats have disappeared within the last 50 years. This is however, not only a national problem as in most highly developed countries, a similar decline of wetlands was observed. The loss of aquatic habitats often goes together with a loss of aquatic species. One of the most imperiled aquatic groups worldwide are freshwater mollusks. Freshwater mollusks are however, vital for ecosystem functions and are a bioindicator for healthy freshwater systems. The only sustainable way to ensure the survival of these flagship species is to protect or to restore their natural habitats.

Organized within the LIFE Nature Project « **Restoration of *Unio crassus* rivers in the Luxemburgish Ardennes LIFE11 NAT/LU/857** », the aim of the seminar is to present the latest monitoring and habitat restoration methods, as they were carried out in different countries throughout the last years. The presentations may or may not be related to freshwater mussel conservation.

This seminar will hopefully bring together researchers from different fields and give rise to discussion of synergistic basin-wide strategies for the recovery of freshwater-species and -habitats.

The local organization team would be glad to welcome all of you in late autumn 2018 in the north of Luxembourg.

Seminar Programme

Tuesday, 27 November 2018

19:15 The LIFE Resto Unio project. A summary of what was achieved in the last 6 years.
(Presentation for the local population in Luxemburgish language)

20:00 Greeting words and welcome reception at the Centre Culturel Château, Castle Clervaux



Wednesday, 28 November 2018

08:00-09:00	Registration at the Centre Culturel Château, Castle Clervaux	
09:00-09:30		Opening and Greetings
Session I		
09:30-10:00	Taskinen J. et al.	<i>Department of Biological and Environmental Science, University of Jyväskylä, P.O. Box 35, 40014 Univ. Jyväskylä, Finland</i> Decline and conservation of two Southern Finnish <i>Margaritifera margaritifera</i> populations
10:00-10:20	Carlevaro A. & Vicentini H.	<i>Benthos – Büro für Gewässerökologie, Zürich & Gewässerökologie, Zürich. Switzerland</i> Monitoring and restoration of <i>Unio crassus</i> Philipson, 1788 habitats in Switzerland – an overview
10:20-10:40	Ozgo M. et al.	<i>Department of Evolutionary Biology, Kazimierz Wielki University, Bydgoszcz, Poland</i> Local conservation of freshwater mussels and the practical effects of species protection
10:40-11:10	Coffee break	
11:10-11:30	Skujiene G.	<i>Department of Zoology, Institute of Biosciences, Life Sciences Center, Vilnius University, Vilnius, Lithuania</i> Monitoring of the Thick Shelled River Mussel <i>Unio crassus</i> (Philipsson, 1788) in Lithuania
11:30-11:50	Daill D. & Gumpinger C.	<i>Consultants in Aquatic Ecology and Engineering (blatffisch e.U.) – Wels, Austria</i> Conservation of Freshwater Pearl Mussels (<i>Margaritifera margaritifera</i>) in Austria – Biomonitoring in the interstitial
11:50-12:10	Denic M. et al.	<i>Landschaftspflegeverband Passau, Fuerstenzell, Germany</i> Conservation status of two endangered freshwater mussel species in Bavaria, Germany: threats and management implications
12:10-13:30	Lunch	
Session II		
13:30-14:00	Lorenz A.	<i>Department of Aquatic Ecology, Faculty of Biology, University of Duisburg-Essen, Essen, Germany</i> Temporal and catchment effects on the success of restoration measures in streams
14:00-14:20	Pichon C.	<i>Parc naturel régional Périgord Limousin - la Barde 24450 La Coquille- France</i> Restoration of freshwater pearl mussel (<i>Margaritifera margaritifera</i>) habitat in Dronne river, France
14:20-14:40	Olofsson P. et al.	<i>Environmental Assessment Section, County Administrative Board of Norrbotten, Luleå, Sweden</i> Restoration of Boreal Nordic Rivers – ReBorN LIFE
14:40-15:10	Coffee break	
15:10-15:30	Schneider J. et al.	<i>Institute of Hydrobiology, University of Technology Dresden, Germany</i> Every small step leads to success in detail: Three years habitat characterization for reintroduction of captive-bred juvenile freshwater pearl mussels

15:30-15:50	Schiller T. et al.	<i>Institute of Hydrobiology, University of Technology Dresden, Germany</i> Evaluation of the success of captive-breeding activities in Saxon Vogtland, Germany: First monitoring of reintroduced juvenile river pearl mussels
15:50-16:10	Zajac K. et al.	<i>Institute of Nature Conservation, Polish Academy of Sciences Mickiewicza 33, 31-120 Kraków, Poland</i> Monitoring of Phenology and Reproductive Effort in <i>Unio crassus</i>
16:10- 18:00	Poster Session with refreshments	
19:30	Official Seminar Dinner in Clervaux	

Thursday, 29 November 2018

08:30-09:00	Registration at the Centre Culturel Château, Castle Clervaux	
Session III		
09:00-09:30	Heumann S. et al.	<i>natur & òmwelt / Fondation Hëllef fir d'Natur, 5 route de Luxembourg, Kockelscheier, Luxembourg</i> Six years of monitoring and restoration during the LIFE Resto Unio Project in the Luxemburgish Ardennes
09:30-09:50	Gallé T. et al.	<i>Luxembourg Institute of Science and Technology- ERIN Dept., Luxembourg</i> Evaluating pesticide pressure on freshwater mussel habitats: monitoring requirements and methodological limitations
9:50-10:10	Curley E.A.M. et al.	<i>School of Geographical and Earth Sciences, University of Glasgow, Glasgow, United Kingdom</i> Investigating the Behavioural and Physiological Response of Endangered Freshwater Pearl Mussels to Stress Exposure
10:10-10:40	Coffee break	
10:40-11:00	Pfister L. et al.	<i>Luxembourg Institute of Science and Technology., Luxembourg</i> On the potential for freshwater pearl mussels to serve as a stream water stable isotope recorder
11:00-11:20	Degelmann W. & Spisar O.	<i>Bund Naturschutz Auguststraße 1, 95028 Hof, Germany & Bilvalvia, Na Klotzance 9, CZ-78901 Zabreh, Czech Republic</i> Pearl mussel breeding station Hof - history and actual work
11:20-11:40	Final Discussion & explanations about the afternoon program	
11:40-12:45	Lunch + Poster Session	
13:00-17:00	<p>Field trip & rearing facility</p> <p>13:00 Departure of the bus to the border triangle (Belgium, Luxembourg, Germany)</p> <p>From here, a 4 km hike to the rearing facility at the mill of Kalborn will be organised. During the hike, some of the restoration measures, completed during the LIFE freshwater mussel projects in Luxembourg can be seen.</p> <p>Once arrived at the mill, for those interested, a tour with explanations of the rearing facility can be given.</p> <p>16:30 Departure of the bus, back to Clervaux</p> <p>Arrival in Clervaux at +/- 17:00</p>	

Poster Session

Wednesday, 28 November 2018 (16:10-18:00)

Thursday, 29 November 2018 (11:40-13:00)

Posters will be on display throughout the meeting

First Author	Title
Mayon N.	Can genetic data be used as a decision-support tool to guide restoration of fish connectivity in salmonid streams? The example of the Sûre river catchment (Belgium, Wallonia)
Vaessen Q.	Caracterisation of <i>Unio crassus</i> Microhabitats in the Sûre River
Motte G.	Actions in progress for the conservation of the thick-shelled river mussel (<i>Unio crassus</i>) in Belgium (Life BNIP)
Pichon C.	Translocation of freshwater pearl mussels <i>Margaritifera margaritifera</i> before habitat rehabilitation project : feedback on the Dronne River
Sehlheim H.	15-year experience of saving the last freshwater pearl mussel population in northrhine-westfalia, Germany
Frisch M.	Water purification performances of freshwater mussels



River Our valley in autumn



*Restoration of *Unio crassus* rivers in the Luxemburgish
Ardennes LIFE11 NAT/LU/857*
Important Seminar Information



Date	Tuesday 27th November – Thursday 29th November 2018
Venue	Centre Culturel Château de Clervaux (Castle Clervaux) L-9712 Clervaux Luxembourg
Early registration date	April 27, 2018
Late registration date	October 26, 2018 A registration form is available under: http://www.unio.lu/news/news/international-seminar-monitoring-and-restoration-o/
Registration Fee	<p>The registration fee is set to 100 €</p> <ul style="list-style-type: none"> • A regular fee is available until Friday, November 9, 2018 afterwards a higher fee will be charged. • Surcharge for late payment will be 20 EUR. <p>The registration fee includes:</p> <ul style="list-style-type: none"> • The abstract book • The welcome reception and hot beverage during the field trip • All coffee breaks • 2 X Lunch • Bus transfer to the rearing facility <p>We ask participants to kindly pay the registration fee, free of charges for us, by November 9, 2018. Payments can be made by bank transfer to the account below.</p> <p>We recommend transferring the money in one transaction. Please indicate with your payment if you want to take part at the Seminar</p>

	<p>Dinner (see below). Payment is possible by bank transfer to the following account:</p> <p>Account Holder: natur & ëmwelt / Fondation Hëllef fir d'Natur</p> <p>Bank Name: CCP Luxembourg</p> <p>BIC/ SWIFT: CCPLULL (International Bank Identification. Number)</p> <p>IBAN: LU89 1111 0789 9941 0000 (International Bank Account Number)</p> <p>Reason for Payment: Life Unio+ Name of Participant (necessary information) + "If relevant" Seminar Dinner + v "or" m v= vegetarian dish m=meat dish</p> <p>For daily visitors direct payment at the conference site is also possible - without additional charge, but only cash is possible.</p> <p>Please note, that no credit card payment is possible during the seminar A receipt for the registration fee will be issued upon arrival.</p> <p>If a written cancellation is received before November 9, 2018 the Conference fee will be refunded minus a cancellation fee of 25€. Thereafter no refunds are possible. All refunds will be made after the workshop</p>
Seminar Dinner	<p>The official seminar dinner will be on Wednesday evening in Clervaux but it is not included in the registration fee and an additional 30€ (drinks not included) must be paid if you are attending.</p> <p>Dinner can be paid by adding 30€ to the registration fee (see above).</p>

<p>Oral communications and posters</p>	<p>Each oral presentation should take 20 minutes maximum (presentation plus discussion). All oral presentations should be in Microsoft Power Point format. If other equipment is needed please contact the organization team.</p> <p>Posters will be presented during the whole seminar. The poster dimensions should be around 70x100 cm.</p>
<p>How to get there</p>	<p>Clervaux is situated in the northern part of Luxembourg.</p> <p>Follow this link: https://goo.gl/maps/X7xfVpWQwV52</p>
<p>Accommodations</p>	<p>Clervaux, a small touristic town, offers a variety of different accommodations. See: http://www.destination-clervaux.lu/accomodation/hotels/</p> <p>The following Hotel are directly located in Clervaux and the seminar venue is in walking distance from these Hotels.</p> <p style="text-align: center;">Hotel du Commerce ***</p> <p style="text-align: center;">http://www.hotelducommerce.lu</p> <p style="text-align: center;">Hotel Koener ***</p> <p style="text-align: center;">http://www.koenerclervaux.lu</p> <p style="text-align: center;">Hotel des Nations***</p> <p style="text-align: center;">http://www.hoteldesnations.lu</p> <p style="text-align: center;">Hotel International ****</p> <p style="text-align: center;">http://www.interclervaux.lu</p> <p style="text-align: center;">Hotel Le Clervaux*****</p> <p style="text-align: center;">http://www.le-clervaux.com</p>
<p>Accompanying persons</p>	<p>For further information about sightseeing in Luxembourg or the area see :</p> <p>http://www.visitluxembourg.lu/</p> <p>http://www.lcto.lu</p> <p>http://www.tourisme-clervaux.lu</p> <p>http://www.naturpark-our.lu</p>

Excursion	A 4 km hike from the border triangle (Belgium, Luxembourg, Germany) to the rearing facility at the mill of Kalborn will be organised. During the hike, some of the restoration measures, completed during the LIFE freshwater mussel projects in Luxembourg can be seen.
Local Organisation Team	Sonja Heumann Patricia Heinen Karin Michels Frankie Thielen Manou Schirtz Michel Frisch
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Please feel free to forward this document to anyone who could be interested in this seminar.

Thank You!