SYMPOSIUM FOR THE CONSERVATION OF FRESHWATER FISH AND HABITAT REHABILITATION



ABSTRACT BOOK

27 to 29 September 2018 University of Évora



SYMPOSIUM FOR THE CONSERVATION OF FRESHWATER FISH AND

Colégio do Espírito Santo 27 to 29 September 2018 University of Évora

Programme

Thursday, 27

8h30 Registration

9h00

António Candelas, Vice-Reitor para a Investigação e Desenvolvimento, UÉvora Miguel Geraldes, Liga para a Proteção da Natureza

Session 1

9h30 Plenary talk:

What is going on with riverine biotic communities?

Emili Garcia-Berthou

10h15 Semi-permeable species boundaries in Iberian Luciobarbus: a tale of fissions and fusions

Gante, H.F.; Doadrio, I.; Dowling, T.E.; Alves, M.J.

10h30

Iberian freshwater anglers and fish introductions: an Iberian survey Banha, F.; Gago, J.; Margalejo, D.; Casals, F.; Ribeiro, F.; Anastácio, P.

10h45

11h15 Dispersal of some native fish species into Norwegian lakes - a serious threat to the freshwater fish fauna and the

aquatic biota Hesthagen, T.; Sandund, O.T.

11h30 "Can you smell it?" A method to assess how cyprinid juveniles respond to predator chemical cues Lima, C.S.; Sousa-Santos, C.; Faria, A.; Gil, F.; Robalo, J.I.

11h45

Update new fish invaders in Portugal using web sources Banha, F.; Anastácio, P.; Gago, J.; Veríssimo, A.; Ilhéu, M.; Gkenas, Ribeiro, F.

At home away from home? Insights into the plastic physiology and behaviour of the invasive chameleon cichlid *Australoheros facetus* in Southern Portugal Baduy, F.; **Saraiva**, **J.L.**; Hubbard, P.C.; Canario, A.V.M.; Guerreiro, P.M. 12h00

12h15 Spatial modeling of invasive species distribution: The use of different climatic variables and prediction of possible

impacts of climate change Gama, M.; Johovic, I.; Banha, F.; Tricarico, E.; Anastácio, P.

12h30 Subsistence fisheries and conservation of freshwater fishes Miqueleiz, I.; Miranda, R.; Ariño, A.H.

Lunch

Session 2	sion 2	
14h15	Plenary talk: Habitat conservation and rehabilitation Rui Cortes	
15h00	LIFE Saramugo Project: Experimental testing of several barrier types to prevent Bleak from reaching areas with Saramugo populations Bernardo, J.M.; Matono, P.; Costa, A.M.; da Silva, J.; Ilhéu, M.	
15h15	Lessons learned in habitat rehabilitation for Saramugo Fragoso, S.; Lousa, H.; Silva, N.; Alcazar, R.	
15h30	River rehabilitation for the conservation of Saramugo's populations in the Guadiana and Moura/Barrancos SCIs Almeida, J.; Oliveira, B.; Pinheiro, P.	
15h45	Ecological recovery and valorisation project of the Várzea de Loures Fernandes, J.P.	
16h00	Coffee break	
16h30	River fragmentation and conservation of endemic Iberian freshwater fish species Rodeles, A.; Galicia, D., Miranda, R.	
16h45	Microhabitat use of endemic cyprinids as a tool to inform restoration practices in Mediterranean rivers Santos, J.M.; Rivaes, R.; Boavida, I.; Branco, P.	
17h00	Ecological status assessment of temporary rivers. Proposal of a Methodological Approach Alves, M.H.; Fialho, A.; Furtado, A.; Gago, C., Soares, C.; Rasga, M.J.; Noronha, P.; Garcia, P.; Oliveira, R.; José, V.	
17h15	A multi-scale approach to the management of regulated rivers for the conservation of freshwater fish Alexandre, C.M.; Almeida, P.R.; Mateus, C.M.; Costa, J.L.; Belo, A.F.; Pereira, E.; Oliveira, I.; Rato, A.; Quintella, B.R.	
17h30	Monitoring freshwaters using eDNA metabarcoding Filipe, A.F.; Garcia-Raventós, A.; Martins, F.M.S.; Paupério, J.; Ferreira, S.; Beja, P.; Magalhães, M.F.	
17h45	Poster session	
18h00	Yeborath saxophone quartet - Departamento de Música da Escola de Artes, Universidade de Évora	

Friday, 28

Session 3

9h00	Plenary talk:
	Challenges for the conservation of endangered fish species
	Jörg Freyhof
	Joig Fleyhol
9h45	Conservation of the Saramugo (Anaecypris hispanica) in the Guadiana basin (Portugal)
	Alcazar, R.; Lousa, H.; Silva, N.; Fragoso, S.
10h00	Patterns of habitat use of the endangered Saramugo, Anaecypris hispanica, and the invasive Bleak, Alburnus alburnus
101100	in Mediterranean temporary rivers: potential negative interactions
	Matono, P.; da Silva, J.; Bernardo, J.M.; Costa, A.M.; Ilhéu, M.
	matorio, F., da Silva, J., Derriardo, J.W., Costa, A.W., Illieu, W.
401-45	
10h15	Behavioral interactions between the endangered native fish Saramugo, <i>Anaecypris hispanica</i> , and the invasive Bleak,
	Alburnus alburnus
	da Silva, J.; Matono, P.; Barata, E.N.; Bernardo, J.M.; Costa, A.M.; Ilhéu, M.
10h30	Coffee break
101100	once break
11h15	High levels of genetic diversity are not sufficient to prevent extintion - the case of the critically endangered Anaecypris
	hispanica
	Sousa-Santos, C.; Joana I. Robalo, J.I.; Francisco, S.M.; Carrapato, C.; Cardoso, A.C.; Doadrio, I.
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11h30	Distribution and demography of the critically endangered Lisbon arched-mouth nase, <i>Iberochondrostoma olisiponense</i> - evidence from model-based field sampling Gante, H.F.; Lomba, Å.; Veríssimo, A.; Cheoo, G.; Oliveira, J.M.; Cereja, R.; Santos, C.D.; Capinha, C.; Ribeiro, F.
11h45	Recovery plan for Jarabugo (<i>Anaecyprs hispanica</i>) in Extremadura Moreno Rendón, P.; González, P.; José, J.; Pascual Toca, M.; López, R.; Carlos, J.; Fallola Sánchez-Herrera, C.
12h00	An action plan and four projects for the conservation of <i>Anaecypris hispanica</i> Cardoso, A.C
	Lunch
Session 4	

14h15	Plenary talk: Conservation and restoration of Mediterranean temporary ponds: experiences from LIFE Charcos project Carla Pinto-Cruz
15h00	LIFE INVASAQUA - Aquatic Invasive Alien Species of Freshwater and Estuarine Systems: Awareness and Prevention in the Iberian Peninsula Ribeiro, F.; Olivo del Amo, R.; Miranda, R.; Anastácio, P.; Torralva, M.; Casals, F.; Cobo, F.; Perdices, A.; Pou-Rovira, Q.; Correia, M.J.; Ferreira, J.; Alcántara, A.; Lázaro, L.; Numa, C.; Ramírez, J.; Larena, A.; Oliva-Paterna, F.
15h15	Unlocking the Severn – The UK's longest river open for fish Morris, M.; Crundwell, C.; Harrison, R.
15h30	Triple Lakes -restoration and preventive actions for freshwater habitats in a climate change perspective Samuelsson, P.; Bernhardsson, M.
15h45	Coffee break
16h15	Keeping longitudinal and lateral connections open. LIFE and Estonian freshwater habitats Meelis, T.; Einar, K.; Mart, T.
16h30	LIFE AGUEDA Conservation and management actions for migratory fish in the Vouga river basin Mateus, C.S.; Pedro, S.; Quintella, B.R.; Alexandre, C.M.; Lança, M.J.; Pinheiro Alves, T.; Pereira, E.; Belo, A.F.; Correia, C.; Sousa, L.; Queiroga, A.P.; Pedro, F.; Laranjeira, C.M.; Belchior, I.; Ascensão, M.; Santos, F.; Marques, P.; Almeida, P.R.
16:45	The dilemma of the application of the WFD in the conservation of threatened species: Recovery of longitudinal connectivity vs invasive species. The case of the Life Cipriber Marcos, C.; González, G.
17:00	Round table - Discussion session
17:45	Closing session
20:00	Symposium dinner

Saturday, 29

Field Trip to Vascão river

Coordinating beneficiary Associated beneficiaries



















Symposium for the Conservation of Freshwater Fish and Habitat Rehabilitation $14\ 27.09$ - $29.09.\ 2018$ / University of Évora, Portugal

Communication

LIFE SARAMUGO PROJECT: EXPERIMENTAL TESTING OF SEVERAL BARRIER TYPES TO PREVENT BLEAK FROM REACHING AREAS WITH SARAMUGO POPULATIONS

Bernardo, J. M. 1, Matono, P. 1,2, Costa, A. M. 1, da Silva, J. 1, Ilhéu, M. 1,2

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Barriers are usually considered to be negative as they prevent or strongly reduce fish migrations and movements in general, fragmenting populations and decreasing their viability.

But desperate situations call for desperate measures and in the context of LIFE Saramugo Project all possible actions with positive effects were taken. One of those actions was to block the bleak progression in the Guadiana river networks, preventing this alien species from reaching areas with Saramugo populations.

The efficiency of several types of barriers were tested. Regarding physical (weir-type) barriers, maximum bleak jumping performance was tested.

For bubble barriers no avoidance was observed.

Some acoustic sequences caused avoidance for an initial period but with habituation that behavioural response was lost; adding bubbles to sound showed no increased efficiency.

Electric barrier proved to be efficient under certain electric current conditions. These results are relevant to inform decision on an appropriate barrier to install in critical points.