

13 JULY 2018

Workshop River Restoration and Management

Final results of the PhD Class 2014

FCT PhD PROGRAM FLUVIO
in cooperation with FCT PhD PROGRAM SUSFOR

WORKSHOP PROGRAMME

13rd July 2018, Salão Nobre do Instituto Superior de Agronomia

13.50-14.00	<i>Teresa Ferreira</i>	Welcome from FLUVIO Director
14.00-14.30	<i>Ana Calapez</i>	Multiple-stressors impacts on stream communities' dynamics: responses to water scarcity and organic loads
14.30-15.00	<i>María Díaz Redondo</i>	Restoration of fluvial dynamics in large rivers: from benchmarking to scenario design
15.00-15.30	<i>Rui Rivaes</i>	Exploring riparian vegetation interactions with flow regime and fluvial processes for an improved river management and conservation
15.30-16.00	<i>Gonçalo Duarte</i>	Paving the way for research on diadromous fish species using historical data



COFFEE BREAK

16.30-17.00	<i>Filipe Silva Romão</i>	Assessment and Development of Vertical Slot Fishways for Iberian Cyprinids
17.00-17.30	<i>Maria João Costa</i>	Effects of hydropeaking and shelter configurations on the behaviour of cyprinids in an experimental flume
17.30-18.00	<i>Ana Isabel Machado</i>	Removal of Pharmaceutical Active Compounds by Constructed Wetland Systems – a sustainable phytoremediation technique?
18.00-18.30	<i>André Fabião (SUSFOR)</i>	Restoring the ecological quality of riparian ecosystems - a multi-level approach



FLUVIO CLASS 2014-2018' SCIENTIFIC ACHIEVEMENTS

(34) Artigos indexados. Peer-reviewed papers.

- Branco P, Santos JM, Amaral S, Romão F, Pinheiro AN, Ferreira MT. (2016). Potamodromous fish movements under multiple stressors: Connectivity reduction and oxygen depletion. *Science of the Total Environment* 572: 520-525. DOI: [10.1016/j.scitotenv.2016.08.070](https://doi.org/10.1016/j.scitotenv.2016.08.070)
- Calapez AR, Branco P, Santos JM, Ferreira MT, Hein T, Brito AG, Feio MG. (2017). Macroinvertebrate short-term responses to flow variation and oxygen depletion: A mesocosm approach. *Science of the Total Environment* 599-600: 1202–1212. DOI:10.1016/j.scitotenv.2017.05.056
- Calapez AR, Serra SRQ, Santos JM, Branco P, Ferreira MT, Hein T, Brito AG, Feio MJ. (2018). The effect of hypoxia and flow decrease in macroinvertebrate functional responses: A trait-based approach to multiple-stressors in mesocosms. *Science of the Total Environment* 637–638, 647–656. DOI:10.1016/j.scitotenv.2018.05.071
- Calapez AR, Elias CL, Alves A, Almeida SFP, Brito AG, Feio MJ. Molecular evidences of biofilm community shifts induced by flow stagnation, organic loads and grazing. (Submitted).
- Calapez AR, Elias CL, Almeida SFP, Brito AG, Feio MJ. Multiple-stressors effects on Mediterranean stream communities: biofilm, grazers and their interaction. (Submitted).
- Costa MJ, Lennox RJ, Katopodis C, Cooke SJ. (2017). Is there evidence for flow variability as an organism-level stressor in fluvial fish? *Journal of Ecohydraulics* 2(1): 68–83. DOI:10.1080/24705357.2017.1287531
- Costa MJ, Fuentes-Pérez JF, Boavida I, Tuhtan JA, Pinheiro AN. (2018). Fish under pressure: examining behavioural responses of Iberian barbel under simulated hydropeaking with instream structures. *PLOS One*. (submitted).
- Costa MJ, Ferreira MT, Pinheiro AN, Boavida I. (2018). The potential of lateral refuges for Iberian barbel under simulated hydropeaking conditions. *Ecological Engineering* (in review)
- Costa MJ, Boavida I, Almeida V, Cooke SJ, Pinheiro AN. (2018). Do artificial velocity refuges mitigate the physiological and behavioral consequences of hydropeaking on a freshwater Iberian cyprinid?. *Ecohydrology* e1983. <https://doi.org/10.1002/eco.1983>
- Diaz-Redondo M, Egger G, Marchamalo M, Damm C, Proença de Oliveira R, Schmitt L. (2018). Targeting lateral connectivity and morphodynamics in a large river-floodplain system: the Upper Rhine River. *River Research and Applications* 1-11. DOI: 10.1002/rra.3287.
- Diaz-Redondo M, Egger G, Marchamalo M, Hohensinner S, Dister E. (2017). Benchmarking Fluvial Dynamics for Process-Based River Restoration: the Upper Rhine River (1816–2014). *River Research and Applications* 33:403-414. DOI: 10.1002/rra.3077.
- Diaz-Redondo M, Marchamalo M, Egger G, Magdaleno M. (2018). Toward floodplain rejuvenation in the middle Ebro River (Spain): From history to action. *Geomorphology* (Available online 28 May 2018). DOI: 10.1016/j.geomorph.2018.05.014.



- Duarte G, Moreira M, Branco P, da Costa L, Ferreira MT, Segurado P. (2018). One millennium of historical freshwater fish occurrence data for Portuguese rivers and streams. *Scientific Data*. (Accepted).
- Duarte G, Segurado P, Oliveira T, Haidvogel G, Pont D, Ferreira MT, Branco P. (2018). The River Network Toolkit – RivTool. *Ecography*. (under review).
- Fuentez-Pérez J, Tuhtan J, Eckert M, Romão F, Ferreira MT, Kruusmaa M, Branco P. (2018). Hydraulics of vertical slot fishways: Non-uniform profiles. *Journal of Hydraulic Research* (under review).
- Garófano-Gómez V, Metz M, Egger G, Díaz-Redondo M, Hortobágyi B, Geerling G, Corenblit D, Steiger J. (2017). Vegetation succession processes and fluvial dynamics of a mobile temperate riparian ecosystem: the lower Allier River (France). *Géomorphologie: relief, processus, environnement* 23:187–202. DOI: 10.4000/geomorphologie.11805.
- Muñoz-Mas R, Garófano-Gómez V, Andrés-Doménech I, Corenblit D, Egger G, Francés F, Ferreira MT, García-Arias A, Politti E, Rivaes R, Rodríguez-González PM, Steiger J, Vallés-Morán FJ, Martínez-Capel F. (2017). Exploring the key drivers of riparian woodland successional pathways across three European river reaches. *Ecohydrology*. DOI: 10.1002/eco.1888
- Ochs K, Rivaes RP, Ferreira MT, Egger G. (2018). Flow management to control excessive growth of macrophytes – an assessment based on habitat suitability modeling. *Frontiers in Plant Science* 9:356. DOI: 10.3389/fpls.2018.00356
- Quaresma AL, Romão F, Branco P, Ferreira MT, Pinheiro AN. (2018). Multi slot versus single slot pool-type fishways: a modelling approach to compare hydrodynamics. *Ecological Engineering* (under revision).
- Machado, AI, Beretta, M, Fragoso, R, Duarte, E, (2016). Overview of the state of the art of constructed wetlands for decentralized wastewater management in Brazil. *Journal of Environmental Management* 187, 560-570. <http://dx.doi.org/10.1016/j.jenvman.2016.11.015>.
- Machado, AI, Dordio, A, Fragoso, R, Leitão, A.E, Duarte, E (2017). Furosemide removal in constructed wetlands: Comparative efficiency of LECA and Cork granulates as support matrix. *Journal of Environmental Management*, 203, 422-428. <http://dx.doi.org/10.1016/j.jenvman.2017.08.002>
- Machado, AI, Fragoso, R, Duarte, E, (2018). Furosemide in water matrix: HPLC-UV method development and degradation studies. *Ambiente & Água - An Interdisciplinary Journal of Applied Science* (submitted).
- Machado, A.I., Fragoso, R., Dordio, A., Duarte, E. Furosemide uptake by wetland plants - *Iris Pseudacorus* versus *Typha Domingensis* (submitted).
- Rivaes R, Boavida I, Santos JM, Pinheiro AN, Ferreira MT. (2017). Importance of considering riparian vegetation requirements for the long-term efficiency of environmental flows in aquatic microhabitats. *Hydrology and Earth System Sciences* 21(11): 5763-5780. DOI: 10.5194/hess-21-5763-2017



- Rivaes R, Boavida I, Santos JM, Pinheiro AN, Ferreira MT. (2015). The inbuilt long-term unfeasibility of environmental flows when disregarding riparian vegetation requirements. *Hydrology and Earth System Sciences Discussions* 12: 10701-10737. DOI: 10.5194/hessd-12-10701-2015
- Rivaes R, Pinheiro AN, Egger G, Ferreira MT. (2016). Using CASiMiR-vegetation model in the context of modeling riparian woods and fish species to support a holistic approach for environmental flows to be used on river management and conservation. *Revista Eletrônica de Gestão e Tecnologias Ambientais (GESTA)* 4(1): 1-17.
- Rivaes R, Pinheiro AN, Egger G, Ferreira MT. (2017). The Role of River Morphodynamic Disturbance and Groundwater Hydrology as Driving Factors of Riparian Landscape Patterns in Mediterranean Rivers. *Frontiers in Plant Science* 8:1612. DOI: 10.3389/fpls.2017.01612
- Rivaes R, Rodríguez-González PM, Albuquerque A, Pinheiro AN, Egger G, Ferreira MT. (2015). Reducing river regulation effects on riparian vegetation using flushing flow regimes. *Ecological Engineering* 81: 428-438. DOI: 10.1016/j.ecoleng.2015.04.059.
- Rivaes R, Rodríguez-González PM, Ferreira MT, Pinheiro AN, Politti E, Egger G, García-Arias A, Francés F. (2014). Modeling the Evolution of Riparian Woodlands Facing Climate Change in Three European Rivers with Contrasting Flow Regimes. *PLoS ONE* 9(10): 110-200. doi:10.1371/journal.pone.0110200.
- Romão F, Branco P, Quaresma AL, Amaral S, Pinheiro AN. (2018). Effectiveness of a multi-slot vertical slot fishway versus a standard vertical slot fishway for potamodromous cyprinids. *Hydrobiologia* 816(1): 153-163. DOI: <https://doi.org/10.1007/s10750-018-3580-5>.
- Romão F, Quaresma AL, Branco P, Santos JM, Amaral S, Ferreira MT, Katopodis C, Pinheiro AN. (2017). Passage performance of two Cyprinids with different Ecological Traits in a Fishway with Distinct Vertical Slot Configurations. *Ecological Engineering* 105:180-188. DOI: <https://doi.org/10.1016/j.ecoleng.2017.04.031>.
- Romão F, Quaresma AL, Santos JM, Branco P, Pinheiro AN. (2018). How different cyprinids perform in a experimental multi slot fishway? Testing its effectiveness in distinct seasons. *Marine and Freshwater Research* (under review).
- Romão F, Santos JM, Katopodis C, Pinheiro NA, Branco P. (2018). How does season affect passage performance and fatigue of potamodromous cyprinids? An experimental approach in a vertical slot fishway. *Water* 10(4): 395. DOI: <https://doi.org/10.3390/w10040395>.
- Santos JM, Rivaes R, Boavida I, Branco P. (2017). Structural microhabitat use by endemic cyprinids in a Mediterranean-type river: Implications for restoration practices. *Aquatic Conservation: Marine and Freshwater Ecosystems* 1-11. DOI: 10.1002/aqc.2839

(39) Comunicações orais. Oral presentations.

- Calapez AR, Elias C, Falourd S, Brito AG, Almeida SF, Feio MJ. (2016). Organic load and water scarcity combined effects on Mediterranean stream communities: biofilm, grazers and their interaction. XVIII Congress of the Iberian Society of Limnology, Tortosa, Spain.



- Calapez AR, Elias C, Pereira A, Alves A, Almeida SFP, Feio MJ. (2018). Molecular evidences of biofilm responses to multiple-stressors: community shifts induced by flow stagnation, organic loads and grazing. XIX Conference of the Iberian Society of Limnology, Coimbra, Portugal.
- Calapez AR, Branco P, Santos JM, Ferreira MT, Hein T, Brito AG, Feio MJ. (2017). How do physical and chemical combined stressors affect short-term drift response of benthic macroinvertebrates? SEFS 10 - Symposium for European Freshwater Sciences, Olomouc, Czech Republic.
- Calapez AR, Hein T, Brito AG. (2015). Assessing the effect of multiple-stressors on stream biofilms - responses to flow variability and organic loads. I Specialized Conference on Ecology, Management and River Restoration: Practices and Experiences – I SCEMRR, Salvador, Bahia, Brazil.
- Costa MJ, Boavida I, Ferreira MT, Cooke SJ, Pinheiro AN. (2017). Efeitos dos hidropicos: implicações no restauro fluvial. V Jornadas de Restauro Fluvial. Lisbon, Portugal.
- Costa MJ, Boavida I, Pinheiro A. (2018). The consequences of pulsed flows to freshwater fish: challenges and solutions. XIX Conference of the Iberian Association of Limnology. Inland waters and XXI century challenges: from scientific knowledge to environmental management, Coimbra, Portugal.
- Costa MJ, Boavida I, Pinheiro AN. (2016). Underlying mechanisms of movement patterns in cyprinids affected by hydropeaking. 11th International Symposium on Ecohydraulics, Melbourne, Australia.
- Costa MJ, Boavida I, Ferreira MT, Cooke SJ, Pinheiro AN. (2017). Effects of hydropeaking and shelter configurations on the behaviour of cyprinids in an experimental flume. 10th Symposium for European Freshwater Sciences, Olomouc, Czech Republic.
- Díaz-Redondo M, Egger G, Marchamalo M, Damm C, Proença de Oliveira R, Schmitt L. (2018). Process-oriented river restoration scenarios for a large river-floodplain system: the Upper Rhine River (France, Germany). 3rd international conference Integrative Sciences and sustainable development of rivers, Lyon, France.
- Díaz-Redondo M, Marchamalo M, Egger G, Magdaleno F. (2018). Restoration of fluvial dynamics in large rivers: benchmarking and restoration targets. Submitted to the 12th International Symposium on Ecohydraulics, Tokyo, Japan.
- Díaz-Redondo M, Marchamalo M, Morcillo F. (2018). Biogeomorphic effects of the renaturalization of an urban river: the Manzanares River in the city of Madrid (Spain). XIX Congresso da Associação Ibérica de Limnologia. Coimbra, Portugal.
- Duarte G, Branco P, Haidvogel G, Pont D, Ferreira MT, Segurado P. (2017). Historical distributions of diadromous fish in Europe. 10th Symposium for European Freshwater Sciences 2017, Olomouc, Czech Republic.
- Duarte G, Branco P, Haidvogel G, Pont D, Ferreira MT, Segurado P. (2018). Potential European distribution of diadromous fish species in early 20th-century. VII Congress of the Iberian Society for Ichthyology, Faro, Portugal.



- Duarte G, Branco P, Haidvogel G, Pont D, Ferreira MT, Segurado P. (2018). Early 20th-century potential distributions of diadromous fish species in Europe. 12th International Symposium on Ecohydraulics, Tokyo, Japan.
- Duarte G, Branco P, Haidvogel G, Pont D, Ferreira MT, Segurado P. (2018). Integrating historical fish data – selecting pseudo-occurrences. 12th International Symposium on Ecohydraulics, Tokyo, Japan.
- Duarte G, Oliveira T, Segurado P, Branco P, Haidvogel G, Pont D, Ferreira MT. (2016). River Network Toolkit (RivTool) – A new software for river networks. CCM2 River and Catchment Database for Europe. Applications workshop at the 19th AGILE International Conference on Geographic Information Science, Helsinki, Finland.
- Duarte G, Segurado P, Haidvogel G, Branco P, Pont D, Ferreira T. (2015). A European Tale of Diadromous Fish – From history to what lies in the future. I Specialized Conference on Ecology, Management and River Restoration: Practices and Experiences, Salvador, Brazil.
- Duarte G, Segurado P, Haidvogel G, Branco P, Pont D, Ferreira MT. (2016). Distribution of diadromous species in Europe for the beginning of the 20th century using historical data of fish, climate and land-use. Annual Meeting of the German Society of Limnology and the SIL, Vienna, Austria.
- Duarte G, Segurado P, Oliveira T, Haidvogel G, Pont D, Ferreira MT, Branco P. (2017). River Network Toolkit – Easing freshwater network data management. 5th Biennial Symposium of the International Society for River Science, Hamilton, New Zealand.
- Duarte G, Segurado P, Oliveira T, Haidvogel G, Pont D, Ferreira MT, Branco P. (2018). The River Network Toolkit. XIX Conference of the Iberian Association of Limnology, Coimbra, Portugal.
- Duarte G, Segurado P, Oliveira T, Haidvogel G, Pont D, Ferreira MT, Branco P. (2018). The River Network Toolkit. VII Congress of the Iberian Society for Ichthyology, Faro, Portugal.
- Duarte G, Segurado P, Oliveira T, Haidvogel G, Pont D, Ferreira MT, Branco P. (2017). Dealing with Freshwater Networks – The River Network Toolkit. 10th Symposium for European Freshwater Sciences 2017, Olomouc, Czech Republic.
- Fabião AM, Gominho J, Ribeiro H, Pereira H. (2017). Substratos Lenhosos para Adsorção de Nitratos. 8º Congresso Florestal Nacional – Floresta em Português, Raízes do Futuro. Sociedade Portuguesa de Ciências Florestais, Viana do Castelo, Portugal.
- Fabião AM, Mendes A, Faria C, Fabião A, Almeida H, Ferreira MT. (2017). Requalificação Ambiental de uma Zona Degradada do Paúl da Goucha. 8º Congresso Florestal Nacional – Floresta em Português, Raízes do Futuro. Sociedade Portuguesa de Ciências Florestais, Viana do Castelo, Portugal.
- Quaresma AL, Romão F, Branco P, Ferreira MT, Pinheiro AN. (2017). Can vertical slot fishways operate with less water without compromising effectiveness?. International Conference of Engineering and Ecohydrology for Fish Passage, Corvallis, Oregon, USA.



- Machado, A, Fragoso, R, Duarte, E (2018) Use of different adsorption materials to remove the diuretic drug Furosemide. XIX Conference of the Iberian Association of Limnology, 24-29 June Coimbra, Portugal.
- Machado, AI, Fragoso, R, Dordio, A, Duarte, E (2018) Removal of Furosemide by *Iris Pseudacorus* - Potential use in wetland systems. 16th IWA Wetland System for Water Pollution Control, September 30th to October 4th, Valencia, Spain.
- Rivaes R, Boavida I, Santos JM, Pinheiro A, Ferreira MT. (2015). Fish natural habitat maintenance through riparian-addressed environmental flows. 9th Symposium for European Freshwater Sciences (SEFS9), Geneva, Switzerland.
- Rivaes R, Boavida I, Santos JM, Pinheiro AN, Ferreira MT. (2016). Mudança de paradigma na determinação de caudais ecológicos em Portugal – incorporar requisitos de vegetação ripária para assegurar a sustentabilidade das comunidades aquáticas. 13º Congresso da Água, Lisboa, Portugal.
- Rivaes R, Egger G, Pinheiro A, Ferreira MT. (2015). Using CASiMiR-vegetation model to establish riparian vegetation disturbance requirements. I Specialized Conference on Ecology Management and River Restoration: Practices and Experiences 2015, Salvador, Bahia, Brazil.
- Rivaes R, Pinheiro AN, Egger G, Ferreira MT. (2017). Zonation over succession: a particularity of Mediterranean riparian ecosystems. The 60th IAVS Annual Symposium “vegetation patterns in natural and cultural landscapes”, Palermo, Italy. (orador convidado)
- Rivaes R, Pinheiro A, Egger G, Ferreira MT. (2015). Modeling riparian woods and fish species: a holistic approach for environmental flows to be used on river management and conservation. I Specialized Conference on Ecology Management and River Restoration: Practices and Experiences 2015, Salvador, Bahia, Brazil. (orador convidado)
- Rivaes R, Pinheiro A, Egger G, Luz L, Ferreira MT. (2016). Contributions from riparian vegetation modeling experiments to ecohydraulics research. 11th International Symposium on Ecohydraulics 2016, Melbourne, Australia.
- Rivaes R, Rodríguez-González PM, Albuquerque A, Pinheiro AN, Egger G, Ferreira MT. (2014). Recuperação da vegetação ripária em rios regularizados com recurso a caudais libertados por barragens. 2º Congresso da Água / 16º ENASB / XVI SILUBESA, Lisboa, Portugal.
- Rivaes R, Santos JM, Boavida I, Pinheiro AN, Ferreira MT. (2014). Towards a holistic approach on environmental flow science – adding riparian requirements into consideration. 10th ISE 2014, Trondheim, Norway.
- Romão F. (2017). Princípios eco-hidráulicos para passagens para peixes de fendas verticais: Implicações para o Restauo Fluvial. V Jornadas de Restauo Fluvial - Associação Portuguesa dos Recursos Hídricos. Laboratório Nacional de Engenharia Civil (LNEC), Lisboa, Portugal.
- Romão F, Branco P, Santos JM, Pinheiro AN. (2017). Does season matter? Addressing swimming motivation of a potamodromous fish species in an experimental full-scale vertical slot fishway



in distinct seasons. International Conference of Engineering and Ecohydrology for Fish Passage, Corvallis, Oregon, USA.

Romão F, Pinheiro AN, Branco P. (2017). The role of motivation on fish migration: How does cyprinid performance change in a vertical slot fishway in distinct seasons. 10 Symposium for European Freshwater Sciences, Olomouc, Czech Republic.

Romão F, Quaresma AL, Branco P, Santos, JM, Amaral S, Ferreira MT, Viseu T, Katopodis C, Pinheiro AN. (2017). Passage Performance of two cyprinids with different ecological traits in a fishway with distinct vertical slot configurations. International Conference of Engineering and Ecohydrology for Fish Passage, Corvallis, Oregon, USA.

(28) Painéis. Posters.

Calapez AR, Santos JM, Branco P, Feio MJ, Ferreira MT. (2016). Macroinvertebrate short-term response to flow variation and oxygen depletion pulses in Mediterranean rivers – a mesocosm approach. XVIII Congress of the Iberian Society of Limnology, Tortosa, Spain.

Calapez AR, Serra S, Santos JM, Branco P, Ferreira MJ, Hein T, Brito AG, Feio MJ. (2018). Macroinvertebrate functional responses to multiple stressor gradients of water scarcity and oxygen depletion: a trait-based approach in mesocosm. XIX Conference of the Iberian Society of Limnology, Coimbra, Portugal.

Calapez AR, Hein T, Brito AG. (2015). Assessing the effect of multiple-stressors on stream biofilms - responses to flow variability and organic loads. I Specialized Conference on Ecology, Management and River Restoration: Practices and Experiences, Salvador, Bahia, Brazil.

Costa MJ, Boavida I, Cooke, SJ, Ferreira MT, Pinheiro A. (2015). Effects of hydropeaking and shelter configurations on the behaviour of cyprinids in an experimental flume. I Specialized Conference on Ecology, Management and River Restoration: Practices and Experiences, Salvador, Brazil.

Diaz-Redondo M, Egger G, Marchamalo M. (2015). Analysis of hydromorphological and vegetation dynamics for the study of the reference condition and the ecological deficit of a large river-floodplain system: Upper Rhine River. I Specialized Conference on Ecology, Management and River Restoration – Practices and Experiences, Salvador, Bahia, Brazil.

Diaz-Redondo M, Egger G, Marchamalo M. (2015). Integrated analysis of habitat structure and river-floodplain processes as a basis for process-based river restoration in the Upper Rhine River. REFORM International Conference on River and Stream Restoration “Novel Approaches to Assess and Rehabilitate Modified Rivers”, Wageningen, The Netherlands.

Diaz-Redondo M, Egger G, Marchamalo M. (2015). Process-based river restoration for heavily modified sections of European large rivers: reference conditions, ecological deficits and target states. I Specialized Conference on Ecology, Management and River Restoration – Practices and Experiences, Salvador, Bahia, Brazil.



- Díaz-Redondo M, Marchamalo M, Morcillo F. (2018). Hydromorphological effects of the renaturalization of an urban river: the Manzanares River in the city of Madrid (Spain). 3rd international conference Integrative Sciences and sustainable development of rivers, Lyon, France.
- Díaz-Redondo M, Marchamalo M, Morcillo F. (2018). Hydromorphological effects of the renaturalization of an urban river: the Manzanares River in the city of Madrid (Spain). Submitted to the 12th International Symposium on Ecohydraulics, Tokyo, Japan.
- Duarte G, Branco P, Haidvogel G, Pont D, Ferreira T, Segurado P. (2018). Integrating historical fish data – selecting pseudo-occurrences. 12th International Symposium on Ecohydraulics, Tokyo, Japan.
- Duarte G, Moreira M, Branco P, da Costa L, Ferreira MT, Segurado P. (2018). The Portuguese Historical Fish Database – PHish. XIX Conference of the Iberian Association of Limnology, Coimbra, Portugal.
- Duarte G, Oliveira T, Branco P, Haidvogel G, Pont D, Ferreira MT, Segurado P. (2016). River Network Toolkit (RivTool) – River networks made easy. Annual Meeting of the German Society of Limnology and the SIL Austria, Vienna, Austria.
- Duarte G, Oliveira T, Segurado P, Branco P, Haidvogel G, Pont D, Ferreira MT. (2016). River Network Toolkit (RivTool). 11th International Symposium on Ecohydraulics, Melbourne, Australia.
- Duarte G, Segurado P, Haidvogel G, Branco P, Pont D, Ferreira MT. (2015). A European Tale of Diadromous Fish – From history to what lies in the future. I Specialized Conference on Ecology, Management and River Restoration: Practices and Experiences, Salvador, Brazil.
- Duarte G, Segurado P, Oliveira T, Haidvogel G, Pont D, Ferreira MT, Branco P. (2017). The River Network Toolkit – A new software for basin and river networks management. 14th International Water Association (IWA) Specialist Conference on Watershed and River Basin Management, Kruger National Park, South Africa.
- Fabião AM, Mendes A, Faria C, Fabião A, Almeida H, Ferreira MT. (2017). Wetland Reclamation: The Paúl da Goucha Case Study. Encontro Ciência'17 – Encontro com a Ciência e Tecnologia em Portugal, Lisboa, Portugal.
- Kuriki A, Rivaes R, Sordo-Ward A, Pinheiro AN, Garrote L. (2017). Comparison and Validation of Hydrological E-Flow Methods through Hydrodynamic Modelling. European Geosciences Union General Assembly (EGU 2017), Vienna, Austria.
- Marques IG, Campelo F, Rivaes R, Albuquerque A, Ferreira MT, Rodríguez-González PM. (2017). Long term resilience changes in Southern European riparian forests: a dendroecology approach. The 60th IAVS Annual Symposium “vegetation patterns in natural and cultural landscapes”, Palermo, Italy.
- Martins A, Mbanze A, Coelho C, Rivaes R, Ribeiro N. (2017). Phytosociological structure of dambo ecosystem in the Niassa National Reserve (NNR), Northern Mozambique. European Conference of Tropical Ecology, Brussels, Belgium.



- Mendes A, Fabião AM, Almeida H, Afonso M, Cortes R, Delgado S, Diaz L, Duarte M, Fabião A, Faria C, Luz M, Ferreira MT, Viriato M. (2014). Soil Bioengineering application in river restoration projects: case studies from Southern Portugal. 6th European River Restoration Conference: Connecting River Restoration Thinking to Innovative River Management, Vienna, Austria.
- Metz M, Egger G, Díaz-Redondo M, Schmidlein S, Dister E, Garófano-Gómez V, Steiger J, Hortobágyi B, Corenblit D. (2015). Process-oriented ecological analysis of a dynamic riparian ecosystem: the lower river Allier (France). 2nd International Conference on Integrative Sciences and Sustainable Development of Rivers - IS RIVERS, Lyon, France.
- Moreira M, Duarte G, Segurado P, Ferreira MT. (2017). PHISH-DB - Portuguese Historical fish DataBase. SEFS 10 - Symposium for European Freshwater Sciences, Olomouc, Czech Republic.
- Rivaes R, Pinheiro A, Egger G, Ferreira MT. (2015). Modeling riparian woods and fish species: a holistic approach for environmental flows to be used on river management and conservation. I Specialized Conference on Ecology Management and River Restoration: Practices and Experiences 2015, Salvador, Bahia, Brazil.
- Romão F. (2015). Ecohydraulic thresholds for vertical slot fishways for cyprinids. Thesis Plan presentation at PhD Open days, Lisboa, Portugal.
- Romão F. (2016). Ecohydraulic thresholds for vertical slot fishways for cyprinids. Thesis Plan presentation at FLUVIO Meeting, Salvador, Bahia, Brasil.
- Romão F, Quaresma AL, Branco P, Santos JM, Amaral S, Ferreira MT, Viseu T, Katopodis C, Pinheiro AN. (2017). Passage Performance of two cyprinids with different ecological traits in a fishway with distinct vertical slot configurations. 10 Symposium for European Freshwater Sciences, Olomouc, Czech Republic.
- Machado, A I, Dordio, A, Fragoso, R., Baretta, M., Duarte, E. (2015). Removal of Pharmaceutical Active Compounds by Constructed Wetland Systems – a sustainable phytoremediation technique? EDA-EMERGE PhD student conference - Emerging pollutants and multiple stressors in aquatic ecosystems. 29 June - 01 July 2015, Leipzig, Germany.
- Machado, A I, Dordio, A, Fragoso, R, Beretta, M, Duarte, E (2015). Pharmaceutical active compounds removal by constructed wetland systems. 1st Specialized Conference on Ecology, Management and River Restoration: Practices and Experiences. Lisbon University/FLUVIO Programme. 27-28 July 2015, Salvador, Brazil.
- Santos JM, Oliveira J, Rivaes R, Arenas R, Ferreira MT, Cabral U, Marinho A, Ferreira J, Pádua J, Marin C. (2016). Otimização do ascensor de peixes do aproveitamento hidroelétrico de Touvedo. 13º Congresso da Água, Lisboa, Portugal.

(7) Actas. Proceedings

- Duarte G, Branco P, Haidvogel G, Pont D, Ferreira T, Segurado P. (2018). Integrating historical fish data – selecting pseudo-occurrences. 12th International Symposium on Ecohydraulics, Tokyo, Japan.



- Duarte G, Branco P, Haidvogel G, Pont D, Ferreira MT, Segurado P. (2018). Early 20th-century potential distributions of diadromous fish species in Europe. 12th International Symposium on Ecohydraulics, Tokyo, Japan.
- Duarte G, Oliveira T, Segurado P, Branco P, Haidvogel G, Pont D, Ferreira MT. (2016). River Network Toolkit (RivTool) – A new software for river networks. CCM2 River and Catchment Database for Europe – Applications workshop at the 19th AGILE International Conference on Geographic Information Science, Helsinki, Finland.
- Oliveira JM, Ferreira MT, Duarte G, Santos JM, Mariano A, Ferreira J, Martins J, Bochechas J. (2016). Apresentação da aplicação web para o cálculo do índice piscícola para rios vadeáveis portugueses (F-IBIP). 13º Congresso da água, Lisbon, Portugal.
- Duarte G, Segurado P, Haidvogel G, Branco P, Pont D, Ferreira MT. (2015). A European Tale of Diadromous Fish – From history to what lies in the future. I Specialized Conference on Ecology, Management and River Restoration: Practices and Experiences, Salvador, Brazil.
- Fabião AM, Ferreira MT, Brito AG, Pereira H, Madeira M. (2015). Development of Innovative Nutrient Removal Substrates for Mediterranean River Restoration. 1st Specialized Conference on Ecology, Management and River Restoration: Practices and Experiences, Salvador, Brazil.
- Metz M, Egger G, Díaz-Redondo M, Garófano-Gómez V, Hortobágyi B, Geerling G, Steiger J, Corenblit D. (2016). Succession processes of a dynamic riparian ecosystem: The lower Allier River (France). 11th International Symposium on Ecohydraulics, Melbourne, Australia. ISBN: 978 0 7340 53398.

(1) Bases de dados. Databases.

- Duarte G, Moreira M, Branco P, da Costa L, Ferreira MT, Segurado P. (2018). Portuguese Historical Fish Database (PHish-DB). Open Science Framework <https://dx.doi.org/10.17605/OSF.IO/TXCYS>

(1) Programs. Software.

- Duarte G, Segurado P, Oliveira T, Haidvogel G, Pont D, Ferreira MT, Branco P. (2018). The River Network Toolkit – RivTool. <http://www.rivtoolkit.com/>.

(4) Prémios. Prizes and awards.

- Calapez, A (2018) – Best student poster award. XIX Congreso de la Asociación Ibérica de Limnología, Coimbra, Portugal.
- Díaz-Redondo M (2018) Best student poster award. 3rd International Conference I.S. Rivers. Integrative Sciences and Sustainable Development of Rivers, Lyon, França.
- Duarte, G (2016) – Best student poster award. 11th International Symposium on Ecohydraulics, Melbourne, Australia.
- Rivaes, R (2016) - Prémio Fluviário de Mora – Jovem Cientista do Ano 2015.
- Rivaes, R (2017) - Travel Grant IAVS 2017 – Bolsa de apoio a deslocação para apresentação de comunicação no 60th IAVS Annual Symposium 2017, Palermo, Itália.