

COST Action FA1004
3rd Conference on
Conservation Physiology
of Marine Fishes



Real Marina Hotel, Olhão, Portugal

October 28, 29, 30, 2013

Local organiser: Pedro Guerrero, Centre of Marine Sciences, University of Algarve, Faro.

GENERAL INFORMATION

Delegates have received extensive information about venue, travel, etc. We expect up to 50 delegates at the meeting, 45 from afar, 5 local (University of Algarve). It promises to be a lively meeting.

Venue: Hotel Real Marina, Olhão. Delegates have already booked at this hotel or made their own arrangements. The conference will take place in a meeting room at the hotel. Coffee breaks will be served outside the room, there is a bar nearby in case delegates want to buy a drink during the poster session

Posters: These informal sessions are an important part of the conference, to promote networking and reveal opportunities for collaboration.

There will place to set up posters outside the conference hall. These should be in portrait format. They can be set up at any time; poster sessions proper will be at 18h30 on Monday 28 and Tuesday 29 October.

Please advise Pedro Guerrero by **Tuesday October 22nd 2013** if you will be bringing a poster. Presentations by early stage researchers are particularly welcome.

Meeting structure. The 3rd Conference will comprise three full days, the detailed programme is overleaf. The following main activities will take place:

- **Plenary lectures** Each day will start with 30-min lectures by COST participants or invited experts from COST countries.
- **WG1 workshop on Biomarkers** This will take place after the lectures on day 1 (see below). The primary objective of this WG is to identify and discuss physiological biomarkers of stress and impaired ecological performance, which can be used as indicators of population health and resilience. We take the term biomarker in the broadest sense. The informal and participative workshop will comprise an introductory talk about how biomarkers might be applied in conservation physiology (NOT ecotoxicology biomarkers, although these can be included if relevant). Delegates will then split into 8 groups to discuss potential biomarkers and propose a research project to apply these. No matter how speculative, we just want ideas. Each group will then identify a spokesperson to describe, in 3 slides, the project.

- ***WG2 workshop on the Dynamic Energy Budget*** This workshop will take place after dedicated introductory lectures on day 2. The DEB is a widely-applied model for estimating various elements of the bioenergetics of organisms, including their growth rates. It is currently being used by a number of COST participants to predict responses of fishes to climate change. The bases for its parameterisation have historically proven rather difficult to grasp for ecophysiologicalists. This workshop will aim to improve understanding, and uptake, of this modelling approach by fish ecophysiologicalists. It will be structured into discussion groups after a general roundtable.
- ***WG3 workshop on making conservation physiology relevant to decision-makers.*** This workshop will focus on whether the COST Action can devise a trait-based approach to predict the relative sensitivity of a species of marine fish to climate change, based solely on knowledge of its physiology, ecology and behaviour. The workshop will start with two lectures on Monday (see programme overleaf) and then there will be a round-table workshop on Wednesday morning, animated by an invited expert from a consultancy firm, Longline, specialised in making conservation biology research comprehensible for non-scientists. There will also be a lecture by Steve Cooke (Carleton and Society for Experimental Biology) about making conservation research relevant to policy, and the significance of scale. He will also provide information about the new journal Conservation Physiology (SEB, OUP).
- ***Summing up and MC meeting*** This will be for the last hour of day 3, to progress with COST business. In particular, information will be provided of the next activities planned, and suggestions for STSM subjects.
- ***Networking for research collaboration and STSMs*** The final afternoon will be available for people to finalise networking, in particular to focus on possible STSMs etc.

PROGRAMME

Monday 28 October

09:15 Welcome (Pedro Guerrero; David McKenzie)

09:30 *An introduction to the WG3 workshop : Can a traits-based approach make conservation physiology of marine fishes relevant to policy makers ?* by Julian Metcalfe (Cefas Lowestoft)

10:00 *A traits-based approach to predict responses of marine biota to climate change* by Silvana Birchenough (Cefas Lowestoft)

10:30 Refreshment Break

11:00 WG1 Workshop on Biomarkers (Chair: Guy Claireaux)

12:30 Lunch

13:30 WG1 Workshop (cont.)

16:00 Refreshment Break

16:30 WG1 Workshop: Synthesis of progress

18:00 End of day

18:30 Poster Session

Tuesday 29 October

09:30 *The Dynamic Energy Budget : an Introduction* by Jap van der Meer (NIOZ)

10:00 *Applications of the DEB to predict responses of flatfish to climate change* by Lorna Teal (IMARES)

10:30 Refreshment Break

11:00 WG2 Workshop on the Dynamic Energy Budget (Chair: Christian Jørgensen, Myron Peck)

12:30 Lunch

14:00 WG2 Workshop (cont.)

16:00 Refreshment Break

16:30 WG2 Workshop: Synthesis of progress

17:30 End of day

18:30 Poster Session

Wednesday 30 October

09:30 *Conservation physiology and policy : a question of scale ?* by Steve Cooke
(Carleton University and Society for Experimental Biology)

10:00 WG3 Meeting (Chair: Julian Metcalfe)

10:30 Refreshment Break

11:00 WG3 Meeting (Chair: Julian Metcalfe)

12:00 COST Action Business (Chair: David McKenzie)

13:00 Lunch

14:30 Networking, STSM discussions

17:00 End of conference