

## International Workshop on

# SUSTAINABLE EXTENSIVE AND SEMI-INTENSIVE AQUACULTURE PRODUCTION IN SOUTHERN EUROPE



WEDNESDAY, JANUARY 20 TO THURSDAY, JANUARY 21, 2010

HOTEL PORTA NOVA, TAVIRA, PORTUGAL

ORGANISED BY THE CENTRE OF MARINE SCIENCES – CCMAR

## Programme

### TUESDAY, JANUARY 19

19h00 Welcome drink

### WEDNESDAY, JANUARY 20

09h00 Welcome by Maria Teresa Dinis, Chair of the SEACASE Steering Committee

09h30 How does EU support the sustainable development of European aquaculture through research related initiatives?

*Stamatios Varsamos, European Commission*

#### SESSION I: SEMI-EXTENSIVE NURSERIES

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Chaired by Pavlos Makridis and Emília Cunha

09h50 Semi-intensive nurseries in ponds and Lagoons, a mesocosm system

*Pavlos Makridis, HCMR*

10h10 Effect of vertical surfaces (AquaMats®) on the enhancement of plankton productivity in semi-extensive *Sparus aurata* larval rearing

*Emília Cunha, INRB*

10h30 Extensive fish nurseries based on marine periphyton

*Marion Richard, IFREMER*

10h50 Mesocosm nursery systems: is large beautiful?

*Carlos Andrade, Centro de Maricultura da Calheta*

#### 11H10 COFFEE- BREAK AND POSTER SESSION

11h40 Mesocosms as nurseries for rearing gilthead seabream (*Sparus aurata*) and sole (*Solea senegalensis*): SEACASE trials in Portugal

*Hugo Ferreira, INRB*

## SESSION II: EXTENSIVE SYSTEMS IN PONDS AND LAGOONS

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Chaired by Clara Boglione and Philippe Blachier

- 12h00 Improved farming protocols for Valliculture  
*Clara Boglione, UTV*
- 12h20 Molecular approach to the identification of wild and hatchery seabream within a Valliculture case study  
*Sabina De Innocentiis, ISPRA*
- 12h40 Traditional extensive fish polyculture in earthen ponds – Esteros  
*Manuel Yúfera, CSIC*
- 13h00 Monitoring and integrated management for the preservation of eel (*Anguilla anguilla*) resources in diked saltmarshes.  
*Philippe Blachier, CREA*

### 13H20 LUNCH

- 14h50 Integrated modelling for management and development of sustainable shellfish aquaculture.  
*Camille Saurel, IMAR-DCEA*

## SESSION III: SEMI-INTENSIVE SYSTEMS

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Chaired by Manuel Yúfera and Luís Conceição

- 15h10 Semi-intensive polyculture of seabream and sole in earth ponds  
*Hugo Ferreira, INRB*
- 15h30 Management techniques for fish production in brackish water ponds: Nile delta, Egypt  
*Sherif Sadek, ACO*
- 15h50 Grow-out of white seabream (*Diplodus sargus*), zebra seabream (*Diplodus cervinus*) and common two-banded seabream (*Diplodus vulgaris*) in polyculture  
*Pedro Pousão-Ferreira, INRB*

## SESSION IV: INTEGRATED SYSTEMS

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Chaired by Jérôme Hussenot and Clara Boglione

- 16h10 Integrated system versus lagoon/pond treatment as effluent purification process in a land-based marine fish hatchery  
*Jérôme Hussenot, IFREMER*

### 16H30 COFFEE- BREAK AND POSTER SESSION

- 17h00 The Zeeland Sole Project: integrating sole (*Solea solea*), ragworm (*Nereis virens*) and shellfish culture  
*Jan Ketelaars, Wageningen University*
- 17h20 Sustainable, integrated semi-intensive aquaculture of seaweeds and fish in southern Europe  
*Rui Santos, CCMAR*

## SESSION V: TECHNICAL IMPROVEMENTS

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Chaired by Giovanna Marino and Luísa Valente

- 17h40 Diet formulation for sustainable fish farming in ponds/lagoons  
*Jorge Dias, CCMAR*
- 18h00 Slaughtering procedures: fish from extensive and semi-intensive production  
*Paulo Vaz-Pires, CIIMAR*
- 18h20 Investigating stress response and adaptability to low temperature in the gilthead seabream through a physiological approach  
*Giovanna Marino, ISPRA*
- 18h40 Investigating stress response and adaptability to low temperature in the gilthead seabream through a functional genomic approach  
*Luca Bargelloni, UNIPD*
- 19h00 End of the day

## THURSDAY, JANUARY 21

### SESSION VI: PRODUCT QUALITY

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Chaired by Mireille Cardinal and Jorge Dias

- 09h00 Juvenile's quality on Aquaculture systems  
*Clara Boglione, UTV*
- 09h20 Product quality according to the rearing system: intensive / semi-intensive / extensive / integrated system. Model species: seabream (*Sparus aurata*)  
*Mireille Cardinal, IFREMER*
- 09h40 Best indicators for seabream (*Sparus aurata*) quality from extensive and semi-intensive systems  
*Luisa Valente, CIIMAR*
- 10h00 Farming practices of gilthead seabream (*Sparus aurata*) in semi-intensive earth ponds: effects on the flesh quality  
*Elisabete Matos, CCMAR*
- 10h20 Effect of diet with low fish-derived protein and oil on the sensory properties and nutritional value of gilthead seabream (*Sparus aurata*)  
*Amparo Gonçalves, INRB*

### 10H40 COFFEE- BREAK AND POSTER SESSION

### SESSION VII: CERTIFICATION

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Chaired by Paulo Vaz-Pires and Florbela Soares

- 11h10 Codes of conduct and certification on semi-intensive and extensive systems  
*Paulo Vaz-Pires, CIIMAR*

- 11h30 New EU organic aquaculture rules  
*Richard Bates, DG MARE (EC)*
- 11h50 Organic aquaculture: a strategy for valorisation of semi-intensive aquaculture?  
*Laura Ribeiro, INRB*

## **SESSION VIII: CURRENT STATUS OF EXTENSIVE AND SEMI-INTENSIVE AQUACULTURE**

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Chaired by Loïc Anras and Maria Teresa Dinis

- 12h10 Current status of extensive and semi-intensive aquaculture practices in Southern Europe  
*Loïc Anras, FMA*
- 12h30 Status and challenges of extensive and semi-intensive aquaculture in Portugal  
*António Vieira, ANAQUA*
- 12h50 Status and challenges of extensive and semi-intensive aquaculture in Spain  
*Ignacio de la Rosa, CTAQUA*

### **13H10 LUNCH**

- 14h40 Current status of extensive and semi-intensive aquaculture practices in France  
*Loïc Anras, FMA*
- 15h00 Status and challenges of extensive and semi-intensive aquaculture in Italy  
*Andrea Fabris, API*
- 15h20 Status and challenges of extensive and semi-intensive aquaculture in Greece  
*Akis Ventiris, FGM*

## **SESSION IX: SOCIO-ECONOMIC ASSESSMENT OF NON-INTENSIVE SYSTEMS**

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Chaired by Denis Bailly and Pascal Raux

- 15h40 Sustainable coastal aquaculture: an oxymoron?  
*Manuel Sant'Ana, IBMC*

### **16H00 COFFEE- BREAK AND POSTER SESSION**

- 16h30 Aquaculture in transition spaces: the economic viability in question  
*Pascal Raux, UBO*
- 16h50 Socio-economic assessment of national case-studies  
*Pascal Raux, UBO*
- 17h10 The patrimonial audit: a tool to promote sustainable aquaculture  
*Denis Bally, UBO*
- 17h30 Ecological-economic assessment of sustainable aquaculture options: integrated systems Vs monoculture  
*Ana Nobre, IMAR*

### **17H50 FINAL REMARKS & CLOSING**