

FACE-TO-FACE TRAINING COURSE: FISH NUTRITION AND FEEDING

DATE: 18-22 NOVEMBER 2019

LOCATION: AQUAPÔLE INRA, SAINT PÉE SUR NIVELLE, FRANCE

**FREE
TRAINING COURSE**



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COURSE DESCRIPTION

What are the raw materials used or going to be used in future aquafeeds? How do we formulate aquafeeds? What are the main technologies used for aquafeed production? What are the current research topics on fish nutrition? By answering these questions, this training course will help you to gain solid knowledge on fish nutrition, physiology and feeding. This course will address macro- and micro-nutrients and energy requirements, the evaluation of feedstuff and diet digestibility, the link between feed intake and growth as well as feed formulation and production technology. This training course will also address the environmental impact of aquaculture and feed production, interaction of nutrition with genetics, ongoing research on fish nutrition and feeding and the use of alternative feed ingredients.

COURSE CONTENT

Training will be provided through lectures, practical exercises, field visits and an industry seminar. Lecture topics will include:

- Fish physiology
- Research
- Feeding
- Ingredients
- Digestibility
- Formulation
- Extrusion
- Nutrition requirements

Course participants will take part in a technical visit to INRA's fish farm facilities which include tanks in a raceway system adapted to the implementation of growth and metabolism trials. The fish farm also hosts experimental facilities for the production of experimental extruded feed.

This training course will also include the opportunity for participants to visit a feed factory exclusively dedicated to the aquaculture sector.

This course will include a dedicated mini industry seminar on fish nutrition and feeding, facilitating interactive discussions between all participants and industry representatives from aquafeed, insect and yeast production companies and fish farms. The mini industry seminar will include short opinion presentations from aquaculture industry stakeholders on the future of fish nutrition.

It is possible for industry stakeholders to attend only the seminar. Please see the website for more information and how to register.

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TARGET AUDIENCE

This course is designed for professionals from the fish feed industry who are interested in updating their knowledge on fish nutrition and new aquafeeds formulation. Students who are interested in specialising in fish nutrition are also welcome on this course. The course is also open to companies producing new feed ingredients (insect, micro and macroalgae, pre or probiotics) who would like to discover opportunities to enlarge their market to the fish feed production sector.

COURSE ORGANISERS

Institut National de la Recherche Agronomique (INRA) UMR1419 NUMEA (Nutrition, Métabolisme, Aquaculture), France with the assistance and expertise of Agencia Estatal Consejo Superior de Investigaciones Científicas (CSIC) (Spain), Wageningen University (WU) (the Netherlands) and University of Stirling (UoS) (United Kingdom).

COURSE TUTORS



Name:
Sandrine Skiba
Position:
Research Director
Organisation:
INRA NUMEA
Contact details:
sandrine.skiba@inra.fr



Name:
Stéphane Panserat
Position:
Research Director
Organisation:
INRA NUMEA
Contact details:
stephane.panserat@inra.fr

PRACTICAL INFORMATION

Location: INRA Aquapôle, Saint Pée sur Nivelles, France

Date: Monday 18 (09:00hrs) to Friday 22 (12:00hrs) November 2019

Application deadline: 29 July 2019

Language of instruction & material: English

Fees: Course attendance is free, thanks to European Union Horizon 2020 funding. Participants are expected to pay for their own travel, subsistence and accommodation.

Maximum Participants: 30

REGISTRATION

Official registration forms and additional course information can be found on the AQUAEXCEL²⁰²⁰ website at: <https://aquaexcel2020.eu/training-courses/upcoming-training-courses-apply-now>

Note: Please do not make travel arrangements unless you have received official confirmation of selection.