



Food and Agriculture
Organization of the
United Nations



MINISTRY OF AGRICULTURE
OF THE CZECH REPUBLIC



Fakulta rybnářství
a ochrany vod
Faculty of Fisheries
and Protection
of Waters

Jihočeská univerzita
v Českých Budějovicích
University of South Bohemia
in České Budějovice

Regional workshop on

“Pond aquaculture, intensive fish farming, artificial reproduction, fish genetics and breeding and the conservation of genetic resources”

30 September-4 October 2019, Vodňany, Czech Republic

WORKSHOP PROGRAMME

Day 1:

Intensive fish farming:

- 1) Production of high valuable fish species in different culture systems
- 2) Controlled reproduction of percid fish species
- 3) Egg quality changes associated with fish oocyte ageing
- 4) Production of feeding organisms in Aquaculture and effective larval culture of selected fish species
- 5) Production of marketable pikeperch with Pond-RAS system ensuring profitability

Day 2:

Artificial reproduction:

- 1) Introduction to artificial reproduction of food and ornamental fish species
- 2) Novel methods in artificial reproduction of fishes
- 3) Practical demonstration of artificial reproduction of African catfish (*Clarias gariepinus*) - hormonal preparation, hormonal injection, egg and sperm collection, fertilization, incubation, hatching
- 4) Tropical ornamental aquaculture in Czech Republic (reproduction, breeding, production)

Day 3:

Fish genetics and breeding:

- 1) Potential of hybridization programs for improvement of fish yield
- 2) Potential of selective breeding programs for improvement of fish yield
- 3) Amur mirror carp as an example of new breed for carp production improvement
- 4) Genetics of sturgeons
- 5) Molecular genetics of common carp



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Day 4.

Conservation of genetic resources:

- 1) Conservation of genetic resources in situ
- 2) Fish sperm cryobanking in aquaculture
- 3) Germ stem cell biotechnology as an alternative way for conservation of genetic resources
- 4) **Half day excursion** –research infrastructure of FFPW and CENAKVA research center

Day 5:

Full day excursion – **History and presence of pond aquaculture in central Europe.**
Visit of tropical ornamental fish farms in Czech Republic.