



Program FAO Workshop

Sustainable approaches to inland aquaculture and fisheries – advances in novel technologies

07.-11.11.2022

07.11.2022, Monday

- 08:00 Breakfast (for those who arrives on 06.11.2022) (MEVPIS)
08:00–12:00 Arrival of participants
12:00–13:00 Lunch (Restaurant Zlatý Soudek)
14:00–14:30 Official welcome (Vladimír Žlábek, Pavel Kozák, Haydar Fersoy)
INTENSIVE FISH FARMING: MEVPIS Vodňany – chairman Vlastimil Stejskal
14:30–15:00 Production of feeding organisms in Aquaculture and effective larval culture of selected fish species (Carlos Yanes-Roca)
15:00–15:30 Insect meals as raw material in aquafeeds (Vlastimil Stejskal)
15:30–16:00 Coffee break (MEVPIS)
16:00–16:30 Use of humic substance additives in aquaculture (Markéta Dvořáková Prokešová)
16:30–17:00 Seasonal plankton dynamics in eutrophic fishponds (Otakar Strunecký)
17:00–17:30 Changes in water quality during pond discharge and harvesting and how to improve it – sediment trapping and nutrient recycling (Ján Regenda)
18:00 Dinner (Restaurant Zlatý Soudek)

08.11.2022, Tuesday

- 08:00 Breakfast (MEVPIS)
FRONTIER AQUACULTURE TECHNOLOGIES: MEVPIS Vodňany – chairman Petr Císař
09:00–09:30 Application of machine vision in aquaculture (Jan Urban)
09:30–10:00 Camera based behaviour monitoring – cages/tanks (Dimitra Georgopoulou, HCMR, Greece) (*online*)
10:00–10:30 Coffee break
10:30–11:00 Biosensors (Josep Calduch, CSIC, Spain) (*online*)
11:00–11:30 Fish growth modelling/Virtual laboratory for aquaculture (Orestis Stavrakidis-Zachou, University of Crete, Greece) (*online*)
11:30–12:00 Automatic fish identification by image analysis (Petr Císař)
12:00–13:00 Lunch (MEVPIS)
FISH IMMUNOLOGY- PRACTICAL IMPLICATIONS: MEVPIS Vodňany – chairman Tomáš Korytář
13:00–14:00 Learning from fish: Insights into evolutionary immunology (Tomáš Korytář)
14:00–14:30 Fulvic acid as water additive in aquaculture – A new way to deliver an immunostimulant to juvenile fish and fish larvae (Thora Lieke)



- 14:30–15:00 Immune responses in European perch (Tatyana Gebauer)
- 15:00–15:45 Coffee break
- 15:45 Departure from the MEVPIS parking place
- 16:30–17:30 **FIELD VISIT:** Aquaponic system (Jan Mráz, Radek Gebauer)
- 17:30 Departure to the Budvar Brewery
- 18:00 Excursion and dinner in the Budvar Brewery (Jan Mráz, Radek Gebauer)
- 22:00 Departure from the Budvar Brewery

09.11.2022, Wednesday

08:00 Breakfast (MEVPIS)

FISH GENETICS AND BREEDING: MEVPIS Vodňany – chairman Martin Flajšhans

- 09:00–10:00 Potential of hybridization programs for improvement of fish yield (Abhipsha Dey)
- 10:00–11:00 Potential of selective breeding programs for improvement of fish yield (Martin Prchal)
- 11:00–11:30 Coffee break
- 11:30–12:30 Amur mirror carp as an example of new breed for carp production improvement (Martin Kocour)
- 12:30–13:10 Lunch (MEVPIS)
- 13:10–13:50 Ecophysiology for aquatic invertebrate conservation (Kaelyn J. Fogelman) (*optional*)
- 13:50–14:00 Coffee break
- 14:00–15:00 Conservation of genetic resources *in situ* (Martin Flajšhans)
- 15:00–16:00 New possibilities of conservation of genetic resources in common carp (Vojtěch Kašpar)
- 16:00 Plenary discussion
- 18:00 Dinner (Restaurant Zlatý Soudek)

10.11.2022, Thursday

08:00 Breakfast (MEVPIS)

ARTIFICIAL REPRODUCTION, CONSERVATION OF GENETIC RESOURCES: FFPW USB main building, cryobank, MEVPIS Vodňany – chairman Martin Pšenička

- 08:40–09:00 Walk from the MEVPIS reception to the FFPW USB main building (Klára Šmíd Nachlingerová)
- 09:00–10:00 Fish sperm cryobanking in aquaculture (Borys Dzyuba)
- 10:00–10:40 Excursion, cryobank (Borys Dzyuba)
- 10:40–11:00 Walk to the MEVPIS Vodňany (Klára Šmíd Nachlingerová)
- 11:00–11:15 Coffee break
- 11:15–11:45 Egg quality changes associated with fish oocyte ageing (Azin Mohagheghi Samarin)



11:45–12:45 Germ stem cell biotechnology as an alternative way for conservation of genetic resources (Martin Pšenička)

12:45–13:40 Lunch (MEVPIS)

EXCURSION: FFW USB AND THE CENAKVA CENTER RESEARCH INFRASTRUCTURE

13:40–14:00 Walk from the MEVPIS reception to the EFCF (Adéla Minaříková)

14:00–14:40 Experimental Fish Culture and Facility (Jiří Hajíček)

14:40–15:00 Walk from the EFCF to the GFC (Adéla Minaříková)

15:00–16:00 Genetic Fisheries Center (David Gela) (*divided into two groups*)

15:00–16:00 Laboratory of Germ Cells (Martin Pšenička) (*divided into two groups*)

18:00 Dinner (Restaurant Zlatý Soudek)

11.11.2022, Friday

07:15 Breakfast (MEVPIS) + takeaway snack

FULL DAY EXCURSION: HISTORY AND PRESENCE OF POND AQUACULTURE IN CENTRAL EUROPE: Hluboká nad Vltavou – chairman Ján Regenda

08:00–08:45 Thousand years of fish farming in Bohemia (Ján Regenda)

09:00 Departure from the MEVPIS parking place

09:30–11:30 Fishing Pond “Kvítkovický”

12:00–13:00 Lunch (Hotel Podhrad, Hluboká and Vltavou)

13:15–14:15 Fishery Museum “Ohrada”

14:30–16:30 Fish packets

16:45 Departure from Hluboká and Vltavou

18:00 Dinner (Restaurant Zlatý Soudek)