

WORKSHOP PROGRAM

Monday, 16 May 2011

08:00–09:00 Registration, White Rose Hotel, Písek
09:00–09:30 Welcome for participants and opening ceremonies

SESSION 1:

FISH DOMESTICATION, NEW PRACTICE AND SPECIES WITHIN INLAND AQUACULTURE

Chairmen: *Pascal Fontaine & Tomáš Polícar*

- 09:30–09:45** **Fontaine P.:** Domestication of a new species and development of a sustainable aquaculture in Europe. (R)* **pp. 18**
- 09:45–10:00** **Abbink W.,** Blanco A., Poelman M., Kloet K.: Culture of yellowtail kingfish (*Seriola lalandi*) in RAS in the Netherlands. (R) **pp. 19**
- 10:00–10:15** **Teletchea F.,** Fontaine P.: Particularities of egg and larvae in temperate freshwater fish species: Implications for aquaculture practices. (R) **pp. 20**
- 10:15–10:30** **Kloas W.,** Van Ballegooy Ch., Rennert B.: Validation of an aquaponic-system for (nearly) emission free tomato and fish production in green houses (Astaf-Pro). (R) **pp. 21**
- 10:30–10:45** **Meinelt T.,** Matzke S., Rau A., Phan T.-M., Straus D.: Could peracetic acid be an alternative treatment in aquaculture? (R) **pp. 22**
- 10:45–11:00** **Skibniewska K. A.,** Guziur J., Zakrzewski J., Wiśniewska A., Szarek J., Białowas H.: Guziur scale as a complex method to assess the effect of production and consumers' value of fish. (R) **pp. 23**
- 11:00–11:30 Coffee break and Poster session

SESSION 2: POND AQUACULTURE AND MANAGEMENT

Chairmen: *Zdeněk Adámek & Denés Gál*

- 11:30–11:45** **Adámek Z.:** Bioturbation of sediments by benthic macroinvertebrates and fish and their implications for pond water ecosystems. (R) **pp. 26**
- 11:45–12:00** **Musil M.,** Potužák J., Pechar L.: Impact of topmouth gudgeon (*Pseudorasbora parva* Schlegel, 1842) on production of common carp (*Cyprinus carpio* L.) – Question of natural food structure. (S)** **pp. 27**
- 12:00–12:15** Gardeur J.-N., Mathé S., Rey-Valette H., Ledoré Y., Simon J., **Fontaine P.:** Ponds in Eastern France: towards an environmentally intensive fishfarming. (R) **pp. 28**
- 12:15–12:30** **Gál D.,** Kosáros T., Pekár F., Kerepeczki É.: Potential of the nutrient reutilisation in a combined intensive-extensive pond system. (R) **pp. 29**
- 12:30–12:45** **Kosáros T.,** Pekár F., Gál D., Lakatos G.: Periphyton utilisation in combined intensive-extensive pond fish farming systems. (R) **pp. 30**
- 12:45–13:00** **Potužák J.,** Duras J., Borovec J.: Nutrient balance of two fishponds of different trophic state and different fishery management. (R) **pp. 31**
- 13:00–13:15** **Všetičková L.,** Adámek Z.: The impact of carp pond management upon macrozoobenthos assemblages in pond canals. (S) **pp. 32**

13:15–13:30 **Turkowski K.**, Krzywosw T., Lirski A.: Prediction of fish pond market value in environmentally protected areas in Poland. (R) **pp. 33**

13:30–14:50 Lunch

SESSION 3: PERCID CULTURE AND BIOLOGY

Chairmen: Damien Toner & Vlastimil Stejskal

14:50–15:05 **Toner D.**: Culture of Eurasian perch (*Perca fluviatilis* L.) in Ireland: Past, present and future. (R) **pp. 36**

15:05–15:20 **Bláha M.**, Šetlíková I., Musil J., Policar T.: Is it reasonable to keep 0+ perch (*Perca fluviatilis* L.) with the prey fish? (S) **pp. 37**

15:20–15:35 **Castets M.-D.**, Ben Amar I., Gardeur J.-N., Ledoré Y., Schaerlinger B., Fontaine P.: Effect of nutritional and populational factors on *Perca fluviatilis* L. out-of-season reproductive performances. (S) **pp. 38**

15:35–15:50 **Policar T.**, Stejskal V., Křišťan J., Bossuyt J., Bláha M.: The effect of fish size and density on the weaning success in pond-cultured pikeperch (*Sander lucioperca* (L.)). (R) **pp. 39**

15:50–16:05 **Zakes Z.**, Szczepkowski M., Partyka K., Wunderlich K.: Effect of hormonal stimulation with mammalian gonadotropins on cultured pikeperch out-of-season spawning (*Sander lucioperca* (L.)). (R) **pp. 40**

SESSION 4: STURGEON CULTURE AND BIOLOGY

Chairmen: Harald Rosenthal & Martin Kocour

16:05–16:20 **Rosenthal H.**: Cultivation of endangered species to achieve „fitness for survival“ at release into natural habitats. (R) **pp. 42**

16:20–16:35 **Shelton W.L.**, Mims S.D., Linhart O.: Culture of the American paddlefish (*Polyodon spathula*): Thirty-five years of collaborative research. (R) **pp. 43**

16:35–16:50 Poursaeid S., **Falahatkar B.**, Amiri B.M. & Van Der Kraak G.: Cortisol implantation may enhance growth performance in great sturgeon, *Huso huso*.(R) **pp. 44**

16:50–17:05 **Lebeda I.**: Optimization of chromosomal manipulations in Acipenserids, a review. (S) **pp. 45**

17:05–17:20 **Levavi-Sivan B.**, Yom-Din S., Hurvitz A., Degani G.: The involvement of kisspeptin and gonadotropins in puberty in the Russian sturgeon (*Acipenser gueldenstaedtii*). (R) **pp. 46**

SESSION 5: NUTRITION AND JUVENILE ASPECTS OF FINFISH CULTURE

Chairmen: Jacek Wolnicki & Martin Bláha

17:20–17:35 **Kamiński R.**, Wolnicki J.: Temperature-related growth performance, food conversion and body deformities in juvenile tench *Tinca tinca*. (R) **pp. 48**

17:35–17:50 **Havasi M.**, Oláh T., Felföldi Z., Bercsényi M.: Passing times of two types of feeds in wels (*Silurus glanis*) at three different temperatures. (S) **pp. 49**

17:50–19:00 Happy hour – poster session

20:00–24:00 Welcome party

SESSION 6: REPRODUCTIVE PERFORMANCE IN FINFISH

Chairmen: Zvi Yaron & Mirosława Sokolowska-Mikołajczyk

- 08:30–08:45** Yaron Z., Levavi-Sivan B.: Past experience and future prospects in carp spawning. (R) pp. 52
- 08:45–09:00** Sokolowska-Mikołajczyk M., Gosiewski G., Socha M., Mikołajczyk T.: Ghrelin, leptin and kisspeptin in fish reproduction. (R) pp. 53
- 09:00–09:15** Gosiewski G., Socha M., Nowak E., Kuchinka J.: Influence of short and long-term exposition on roundup on the LH levels in *Carassius gibelio*. (S) pp. 54
- 09:15–09:30** Podhorec P., Socha M., Sokolowska-Mikołajczyk M., Policar T., Švinger V.W., Kouřil J.: Influence of temperature on hormonal induction of ovulation in tench (*Tinca tinca* L.). (S) pp. 55
- 09:30–9:45** Švinger V.W., Policar T., Poláková S., Steinbach Ch., Jankovych A., Kouřil J.: Induction and advancement of ovulation in brook charr (*Salvelinus fontinalis* Mitchell) using administration of emulsified D-Arg⁶Pro⁹NEt sGnRH_a. (S) pp. 56
- 09:45–10:00** Turek J., Randák T., Velíšek J., Podhorec P., Kouřil J.: The effect of selected ovulation-inducing preparations on post-stripping mortality and reproductive indicators of cultured European grayling (*Thymallus thymallus* L.) females. (R) pp. 57
- 10:00–10:15** Trubiroha A., Kroupová H., Kloas W.: Endocrine changes at onset of gametogenesis in the roach (*Rutilus rutilus*). (S) pp. 58
- 10:15–10:30** Cosson J.: Progress in the methods used for grading fish spermatozoa quality for evaluation of their potent swimming performances. (R) pp. 59
- 10:30–10:45** Hatf A., Zare A., Alavi S.M.H., Abdulfatah A., Fontaine P., Habibi H.R., Linhart O.: How does bisphenol-a modulate reproductive physiology performances in male fish? (S) pp. 60
- 10:45–11:05 Coffee break and Poster session

SESSION 7: GENETIC AND MOLECULAR APPROACH IN FINFISH AQUACULTURE

Chairmen: Katsutoshi Arai & Martin Flajšhans

- 11:05–11:20** Vandeputte M.: Parentage assignment with markers: a proven enabling technology to develop efficient breeding programmes in fish. (R) pp. 62
- 11:20–11:35** Li Y.-J., Yu Z., Zhang M.-Z., Qian C., Abe S, Arai K.: Induction of viable gynogenetic progeny using eggs and UV irradiated sperm of chinese tetraploid loach *Misgurnus anguillicaudatus*. (R) pp. 63
- 11:35–11:50** Flajšhans M., Rodina M., Šlechtová V., Šlechta V., Gela D., Kocour M., Hulák M., Kašpar V., Havelka M., Boryshpolets S.: Conservation of fish genetic resources in live gene banks. Fifteen years of Czech experience. (R) pp. 64
- 11:50–12:05** Fujimoto T., Sakao S., Murakami M., Yamaha E., Arai K.: Ploidy manipulation using diploid sperm of a wild tetraploid ginbuna (Japanese silver crucian carp, *Carassius auratus langsdorffii*). (R) pp. 65

- 12:05–12:20** **Kocour M.**, Kohlmann K.: Growth hormone gene in tench, *Tinca tinca*: distribution of alleles across populations and possible use of the knowledge in breeding. (R) **pp. 66**
- 12:20–12:35** Mysłowski B., Panicz R., Sadowski J., **Hofsoe P.**: Genetic structure of whitefish (*Coregonus lavaretus*) population in Miedwie lake. – A „new“ species in aquaculture. (S) **pp. 67**
- 12:35–12:50** **Wedekind H.**, Schmidt G.: Investigations on different local strains of Arctic charr (*Salvelinus cf. umbla*) and their suitability for aquaculture. (R) **pp. 68**
- 12:50–13:05** Zheng L., Senda Y., Tanaka H., **Abe S.**: Proteomics on the viability and fertility in salmonid hybrids. (R) **pp. 69**
- 13:05–13:20** **Panicz R.**, Hofsoe P., Sadowski J., Mysłowski B., Pólgęsek M.: Morphometric and molecular characterisation of *Cyprinus carpio* X *Carassius auratus* hybrids. (R) **pp. 70**
- 13:20–14:50 Lunch
- 15:15–19:30 Excursion
- 19:30 Free evening

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SESSION 8: MEAT QUALITY IN FARMED FISH

Chairmen: Jana Pickova & Jan Mráz

- 08:30–08:45** **Pickova J.**: Food, fish and fat. (R) **pp. 72**
- 08:45–09:00** **Mráz J.**, Adámková V., Kozák P., Pickova J.: Carp flesh – a healthy product for prevention of cardiovascular diseases. (S) **pp. 73**
- 09:00–09:15** **Vestergren A.L.S.**, Trattner S., Mráz J., Pickova J.: Regulation of HUFA by bioactive compounds in Atlantic salmon (*Salmo salar* L.) hepatocytes. (S) **pp. 74**
- 09:15–09:30** **Vácha F.**, Cepák M., Vejsada P., Kouřil J., Hamáčková J., Stejskal V.: Texture profile analyses in tench (*Tinca tinca* L., 1758) from extensive and intensive culture. (R) **pp. 75**
- 09:30–09:45** **Thomas M.**, Lazartigues A., Banas D., Brun-Bellut J., Paris-Palacios S., Menjli Ch., Feidt C.: Chemical contaminants in farmed fish from ponds in North Eastern France. (R) **pp. 76**
- 09:45–10:00** **Zajíc T.**, Mráz J., Kocour M., Pickova J.: White muscle fatty acid composition of common carp (*Cyprinus carpio* L.) – comparison of four different crossbreds of Ropsha carp. (S) **pp. 77**
- 10:00–10:20 Coffee break and Poster session

SESSION 9: EUROPEAN AQUACULTURE SOCIETY

- 10:20–10:35** **Lane A.**: European Aquaculture Society – our activities and their relevance to CEE countries. (R) **pp. 80**

SESSION 10: ALLER AQUA

10:35–10:50 **Walczak M.:** Aller Aqua who we are, and why we are here? (R)

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10:50–11:15 Closing ceremonies in Písek

11:15–12:30 Lunch

12:45–13:30 Travelling to Hluboká castle

13:30–23:00 Celebratory meeting in Hluboká Castle and in Aleš South Bohemian Gallery

23:00–24:00 Travelling back to Písek

POSTER SESSION

(Alphabetical precedence according to the first author)

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Bauer Ch., Schlott K., Schlott G., Gratzl G., Fichtenbauer M.: Large cladocerans as a indicator for feeding in extensive carp culture. (R) **pp. 87**

Buřič M., Bláhovec J., Kouřil J.: Danish model recirculating systems for salmonids in the climate of mid-Europe: Advantages, possibilities, limitations. (R) **pp. 88**

Cieśla M., Śliwiński J., Kaczkowski Z., Lirski A.: Mass production of ide (*Leuciscus idus* L.) a new species for polycultural rearing in carp ponds – three sides of the same coin. (R) **pp. 89**

Drozd B., Bláha M.: Food composition of weatherfish (*Misgurnus fossilis*) larvae and juveniles from natural habitat. (S) **pp. 90**

Dvořák P., Andreji J., Dvořáková Z., Bečák L.: Extensive fish farming in the Bohemian Forest. (R) **pp. 91**

Enyidi U., Pirhonen J., Vielma J.: Effects of substituting soybean meal with bambara nut meal on the first feeding african catfish (*Clarias gariepinus*). (S) **pp. 92**

Falahatkar B., Poursaeid S., Efatpanah I., Langroudi H.E., Meknatkhah B.: Spawning induction in kutum *Rutilus kutum* using different hormonal administrations: analysis of hormone profile and success of induction. (R) **pp. 93**

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Hadjinikolova L., Hubenova T.: Body traits and chemical composition of paddlefish (*Polyodon spathula*), a potential aquaculture species. (R) **pp. 95**

Hatef A., Alavi S.M.H., Policar T., Linhart O.: Modes of action of mercury on fish sperm. (S) **pp. 96**

Hermelink B., Wuertz S., Trubiroha A., Rennert B., Kloas W., Schulz C.: Influence of temperature on puberty and maturation of pikeperch, *Sander lucioperca*. (S) **pp. 97**

Hubenova T., Iliev I., Zaikov A.: Reproductive biology of the channel catfish (*Ictalurus punctatus* Raf.) reared in warmed waters. (R) **pp.98**

Chakrabarti R., Srivastava P.K., Sharma J.G.: Immunostimulatory and disease resistance properties of *Achyranthes aspera*, a herb (Amaranthaceae) in carp *Labeo rohita*. (R) **pp. 99**

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Mestre P.M.G., **Afonso F.R.A.,** Vitor Manuel Carvalho Almada V.M.C.: Importance of behaviour studies to the diversification of species in aquaculture. (R) **pp. 108**

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Spirkovski Z., Ilik-Boeva D.: Artificial spawning and breeding of the endemic trout species (native population) from lake Ohrid for its restocking purposes. (R) **pp. 117**

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