

# WATER & FISH

**University of Belgrade,  
Faculty of Agriculture, Serbia**



With a support of:



Pan-Hellenic Society of  
Technologists Ichthyologists (PASTI)

In the frame of the program:



AREA

\*ADVANCING RESEARCH IN AGRICULTURAL AND  
FOOD SCIENCES AT FACULTY OF AGRICULTURE,  
UNIVERSITY OF BELGRADE\*

EU FP7 project AREA

June, 10 - 12, 2015  
Faculty of Agriculture  
Belgrade

**www.cefah.agrif.bg.ac.rs**  
**www.agrif.bg.ac.rs**  
**ribarstvø@agrif.bg.ac.rs**

Dear friends and colleagues,

With joy we inform you that this, 2015, for the 7th time, we organize our gathering again - the «WATER & FISH» Conference in order to allow communication of research results, exchange knowledge and experience, but also enjoy company of colleagues.

Place for gathering is the old one - Faculty of Agriculture in Belgrade - Zemun in the vicinity of Zemun quay - the most beautiful promenade near the Danube in Belgrade. As the title of the Conference says, water and fish are the main topic of this meeting. Welcomed are all those interested in aquatic environment and organisms inhabiting it, aquaculture, fishery...

As usual, among lecturers are the most known names from the research world, representatives of many countries, associations, institutions and projects. This time as well the Conference is supported by the European Aquaculture Society (EAS) and a Pan-Hellenic Society of Technologists Ichthyologists (PASTI). The Conference itself is part of the EU FP7 program - the project AREA.



## CONFERENCE PROGRAM

### WEDNESDAY, JUNE 10, 2015

#### **8:30-9:30 Registration of participants and poster mounting**

#### **9:30-10:10 Official opening of the Conference**

- Welcome address - State secretary of the Ministry of Agriculture and Environmental Protection - Prof. Dr Zoran Rajić
- Welcome address from the Conference host - Vice Dean of the Faculty of Agriculture - Prof. Dr Predrag Puđa
- Welcome address of the Pan-Hellenic Society of Technologists Ichthyologists (PASTI) - Dr Michael Chatziefstathiou
- Welcome address and short presentation of the AREA project by project coordinator - Prof. Dr Radmila Stikić
- Welcome address and short presentation of the research capacity in the aquaculture sector of the University of Belgrade, Faculty of Agriculture - Prof. Dr Vesna Poleksić

#### **10:10-12:10 Paper presentations (Chair persons: Poleksić, V., Varadi, L.)**

- THE ENHANCED ROLE OF REGIONAL COLLABORATION FOR THE SUSTAINABLE DEVELOPMENT OF AQUACULTURE AND FISHERIES: MACROREGIONAL STRATEGIES (DANUBE, ADRIATIC - IONIAN) AND REFORMED EU COMMON FISHERIES POLICY - Chatziefstathiou, M., Matsiori, S. (Greece)
- GOVERNANCE IN AQUACULTURE IN CENTRAL AND EASTERN EUROPE AND THE ROLE OF PRODUCERS ASSOCIATIONS - Varadi L., Bekefi, B.E., (Hungary)
- FRESHWATER AQUACULTURE IN CENTRAL AND EASTERN EUROPE: NEEDS FOR RESEARCH AND DEVELOPMENT - Pucher, J., Hölzle, L., Thomas, A., Focken, U., Schlechtriem, C., Feucht, Y., Schumann, M., Váradi, L., Halasi-Kovács, B., Urbányi, B., Bokor, Z., Horváth, Á., Tarnai-Király, Z., Péteri, A., Policar, T., Poleksić, V., Matulic, D., Borda, D., Grozea, A., Raspor, P., Zunabović, M., Hubenova, T., Grigorov, B., Pilarczyk, A., Bekh, V. (Germany, Hungary, Czech Republic, Serbia, Croatia, Romania, Slovenia, Austria, Bulgaria, Poland, Ukraine)
- THE SPAWNING EFFICIENCY INDEX AS A TOOL IN AQUACULTURE RESEARCH AND PRODUCTION - Żarski D., Krejszeff, S., Palińska-Żarska, K., Bernath, G., Urbanyi, B., Bokor, Z. (Hungary, Poland)
- IMPLEMENTATION OF FISHING TECHNOLOGIES AND SUSTAINABLE DEVELOPMENT IN SLAUGHTERHOUSE SYSTEMS - Ćirković, M., Kartalović B., Babić, J., Pelić, M., Novakov, N., Jovanović, S., Đorđević V. (Serbia)
- SUSTAINABLE INTENSIFICATION IN FRESHWATER FISH FARMING IN HUNGARY - Varadi, L., Borbely, G., Levai, F., Hoitsy, G. (Hungary)

**12:10-12:25 Presentation of the Veterinary Institute, "Subotica"**

**12:25-12:30 Fish farm "Kapetanski rit" - invitation to a cocktail**

**12:30-13:00 Cocktail break in Hall 1**

**13:00-14:25 Paper presentation (Chair persons: Adamek, Z., Ćirković, M.)**

- POSSIBILITIES OF THE USE OF MICROENCAPSULATED DIETS FOR COMMON CARP (*CYPRINUS CARPIO*) LARVAE - Révész, N., Kumar, S., Csávás, B.K., Percze, V., Sándor, J.Z. (Hungary)

- THE CARP, FROM THE AQUATIC FIELD TO THE DISH: KEY POINTS IN THE SEMI INTENSIVE PRODUCTION AND PLACEMENT - Marković, Z., Stanković, M., Živić, I., Dulić, Z., Rašković, B., Vukojević, D., Relić, R., Poleksić, V. (Serbia)

- DO OXALATES FROM PLANT-BASED AQUAFEDS IMPEDE GROWTH OF COMMON CARP *CYPRINUS CARPIO*? - Focken U., Krome, C., Jauncey, K. (Germany)

- CURRENT ISSUES AND PRINCIPLES OF COMMON CARP (*CYPRINUS CARPIO*) ORGANIC POND FARMING IN EUROPE: AN OVERVIEW - Adamek, Z., Mossmer, M., Bauer C. (Czech Republic, Austria)

- COMPARISON OF GROWTH, SURVIVAL RATE, AND NUMBER OF MARKETABLE FISH PRODUCED OF KOI CARP, *CYPRINUS CARPIO* L., IN OUTDOOR EARTHEN PONDS WITH ENDOGENOUS CULTURE OF *MOINA* SP. OR *DAPHNIA* SP. AND EXOGENOUS SUPPLY OF MIXED PLANKTON - Jha, P. (India)

**14:25-14:45 Discussion (Chair persons: Poleksić, V., Adamek, Z.)**

**14:45-15:05 Presentation - Aller aqua (Poland)**

**15:05-15:10 Fish farm „Sveti Nikola“ - Welcome to Conference participants**

**15:10-15:50 Transfer of participants to Radmilovac and the Centre for Fishery and Applied Hydrobiology of the Faculty of Agriculture CEFAH**

**15:50-18:50 Lunch - visit to the CEFAH "Little Danube", wine and fruits tasting, fish soup preparation contest, tamburitza players, traditional dancing, films from the fishery world, commercial exhibitions....**

17:00-17:30 Presentation of the monograph „Culture and meat quality of carps“ Ćirković, M., Ljubojević, D., Novakov, N., Đorđević V.;

**18:50-19:30 Transfer of participants from CEFAH to the Faculty of Agriculture and the "Side one" Hotel**

## **THURSDAY, JUNE 11, 2015**

**9:00-11:10 Paper presentation (Chair persons: Lenhardt, M., Horvath, A.)**

- APPLICATION OF SPERM CRYOPRESERVATION TO THE CULTURE AND CONSERVATION OF SALMONID SPECIES: A SLOVENIAN-HUNGARIAN COLLABORATION - Horváth A., Bokor, Z., Bernáth, G., Urbányi, B., Snoj, A., Sušnik Bajec, S., Jesenšek, D. (Hungary, Slovenia)

- THE PRESENT STATUS OF RAINBOW TROUT AQUACULTURE IN TURKEY: Özgür, E.M., Bayir, I. (Turkey)

- SPERMATOGONIAL TRANSPLANTATION AS A NOVEL TECHNIQUE IN AQUACULTURE AND FISH CONSERVATION - Lujčić, J., Bernáth, G., Marinović, Z., Lefler, K., Urbányi, B., Horváth, Á. (Hungary)

- NUTRITIONAL REQUIREMENTS OF JUVENILE PIKE (*ESOX LUCIUS*) REARED IN RECIRCULATING AQUACULTURE SYSTEM - Kucska, B., Schnell, D., Varga, D., Hancz, C., Molnár, T. (Hungary)

- INTENSIVE AQUACULTURE OF THE PIKEPERCH (*SANDER LUCIOPERCA*) IN ROMANIA: CURRENT STATUS AND PERSPECTIVES - Grozea, A. (Romania) - THE POTENTIAL OF MICRO ALGAE AS FEED INGREDIENT FOR ATLANTIC SALMON - Sørensen, M., Dos Santos Guterres, A.H., Gong, Y.Y., Kiron, V. (Norway)

- SUSTAINABLE MEASURES FOR IMPROVEMENT OF RHEOPHILIC FISH PRODUCTION - PRELIMINARY RESULTS WITH CHUB (*SQUALIUS CEPHALUS*) POND CULTURE - Dulić, Z., Hlaváč, D., Anton-Pardo, M., Adámek, Z. (Serbia, Czech Republic)



**11:10-11:20 Presentation of the "Scientific Institute of Veterinary Medicine, Serbia"**

**11:20-11:50 Cocktail break in Hall 1**

**11:50-12:50 POSTER SESSION (authors are expected to be at their poster in Hall 2)**

**12:50-14:40 Paper presentation (Chair persons: Jakić-Dimić, D., Palić, D.)**

- IMPLEMENTING EFFECTIVE VETERINARY BIOSECURITY PROGRAMS IN AQUACULTURE THAT MEET INTERNATIONAL STANDARDS AND NATIONAL REGULATIONS - Palić, D., Scarfe, D.A., Walster, I. (Germany, United States, England)

- ALLERGENIC PROTEINS IN FISH - Baltić, M., Ivanović, J., Janjić, J., Bošković, M., Marković, R., Đorđević, J., Dokmanović, M., Glišić, M. (Serbia)

- ASSESSMENT OF THE METAL AND TRACE ELEMENT CONTENTS IN TISSUES OF FOUR COMMERCIAL FISH SPECIES FROM THE DANUBE RIVER, BELGRADE - Jovičić, K., Višnjić-Jeftić, Ž., Skorić, S., Smederevac-Lalić, M., Nikolić, M.D., Đikanović, V., Jarić, I., Lenhardt, M., Hegediš, A. (Serbia)

- PESTICIDE CONTAMINATION IN FARMED FISH - EXPOSURE PATHWAYS, BIOACCUMULATION AND CONSUMER RISK - Schlechtriem, C. (Germany)

- SURVEILLANCE OF FISH DISEASES IN SERBIA - Radosavljević, V., Jakić-Dimić, D., Marković, Z., Milićević, V., Maksimović-Zorić, J., Ljubojević, D., Čirković, M. (Serbia)

- FISH EMBRYOS AS ALTERNATIVE MODELS IN TOXICOLOGY: A REVIEW - Sehonova, P., Sevcikova, M., Svobodova, Z. (Czech Republic)

**14:40-15:00 Discussion (Chair persons: Palić, D., Horvath, A.)**

**15:00-15:15 Presentation of the DTD Ribarstvo, Bački Jarak**

**15:15-16:15 Buffet Lunch (Hall 1)**

**20:30-24:00 Conference dinner (restaurant at the Zemun quay - „Beolido“ - [www.beolido.rs](http://www.beolido.rs))**

## **FRIDAY, JUNE 12, 2015**

**9:00-11:00 Paper presentation (Chair persons: Joksimović, A., Chatziefstathiou, M.)**

- ANALYSIS OF THE DISTRIBUTION OF FRESHWATER FISH IN SERBIA - Smederevac-Lalić, M., Rajković, B., Zarić, V. (Serbia)

- COMPARATIVE SHAPE ANALYSIS OF WILD AND REARED STERLET (*ACIPENSER RUTHENUS* L.) - Cvijanović, G., Kašpar, V., Lenhardt, M. (Serbia, Czech Republic)

- ECOLOGICAL, ECONOMIC AND PARAMETERS OF RECREATIONAL FISHING ON THE RESERVOIR OF AOOS RIVER- Tsoumani, M., Vrakas, E., Anastasiou S., Chatziefstathiou, M., Nathanailides C., Tiligadas I. (Greece)

- *DAPHNIA* HYBRIDIZATION IN PERI-ALPINE LAKES OVER SPACE AND TIME - Spaak, P. (Switzerland)

- SCIENTIFIC MONITORING OF THE ALIEN FISH AND CRUSTACEANS SPECIES IN THE ADRIATIC SEA (MONTENEGRIN COAST) - Joksimović, A., Regner, S., Dulčić, J., Pešić, A., Marković, O., Ikica, Z., Đurović, M. (Montenegro, Serbia, Croatia)

- ECONOMIC EFFICIENCY OF FILLETING YIELD OF FARMED MEDITERRANEAN MARINE FISH SPECIES - Nathanailides, O., Anastasiou, S. (Greece)

**10:45-11:00 Presentation**

**11:00-11:50 POSTER SESSION (authors are expected to be at their poster Hall 2)**

**11:50-12:20 Cocktail break (Hall 1)**

**12:20-13:25 Paper presentation (Chair persons: Hubenova, T., Regner, S.)**

- AQUARIUM PULA - Mičić, M. (Croatia)

- FLUCTUATIONS OF THE CATCH OF SOME PELAGIC SPECIES OF THE MEDITERRANEAN SEA - Regner, S., Smederevac-Lalić, M., Mičković, B., Lenhardt, M., Hegediš, A., Jaćimović, M., Kalauzi, A. (Serbia)

- SIZE STRUCTURE OF THE TURBOT (*PSETTA MAXIMA MAEOTICA*) LANDINGS FROM THE NORTH BULGARIAN BLACK SEA COAST - Hubenova, T., Zaikov, A., Ivanova, A., Trezyiski, D., Kazakova-Gevesova, M. (Bulgaria)

- INHIBITION OF LIPID OXIDATION IN ANCHOVY OIL BY GRAPEFRUIT ALBEDO EXTRACT - Yatmaz, A.H., Yerlikaya, P., Gokoglu, N., Ucak, I. (Turkey)

- EFFECTS OF HIGH PRESSURE PROCESSING ON MICROBIOLOGICAL QUALITY OF HERRING (*CLUPEA HARENGUS*) - Ucak, I., Gokoglu, N. (Turkey)

**13:25-13:45 Discussion (Chair persons: Hubenova, T., Joksimović, A.)**

**13:45-14:00 Farewell message and closing remarks**

**14:00-14:20 Removing of posters from Hall 2**

**14:30-15:00 Transfer of participants from the Faculty of Agriculture to Sava docks**

**15:00-18:00 Cruise on the Danube and the Sava, boat "Golden heart" [www.brodzlatnosrce.com](http://www.brodzlatnosrce.com), boat trip and sightseeing of Belgrade (lunch/catering on the boat)**

**18:00-18:30 Transfer of participants from Sava docks to the „Side one“ Hotel and the Faculty of Agriculture**



## POSTER SECTION

**Instructions for poster preparation:**

Posters should be mounted on Wednesday, June 10 2015 Hall 2, Faculty of Agriculture, after registration (8:30-9:30);

Dimension of posters boards: 118 x 84 cm (A0);

Posters must be prepared in advance, in English with text sizes large enough to be viewed from a distance of 1 m. Poster numbers are given in the list below;

Posters should be removed on June 12, the last Conference day (14:00-14:20).

**1. EFFECTS OF DIETARY ALLSPICE, *PIMENTA DIOICA* POWDER ON HEMATOLOGICAL AND IMMUNOLOGICAL RESPONSES OF *OREOCHROMIS MOSSAMBICUS* UNDER LOW pH STRESS** - Acar, Ü., Kesbiç, S.O., Gültepe, N., Yalgin, F., Yilmaz, S., Türker, A. (Turkey)

**2. GENETIC VARIABILITY OF AN INVASIVE FRESHWATER FISH, GIBEL CARP *CARASSIUS GIBELIO* (BLOCH, 1782) IN TURKEY REVEALED BY SEQUENCES OF MITOCHONDRIAL CYTOCHROME OXIDASE I GENE** - Ağdamar, S., Tarkan, S.A. (Turkey)

**3. LENGTH-WEIGHT RELATIONSHIPS OF 18 FISH SPECIES FROM THE PERSIAN GULF** - Alavi-Yeganeh, S.M., Ghodrati-Shojaei, M., Deyrestani, A. (Iran)

**4. THE IMPORTANCE OF BORDER INSPECTION IN CONTROL HISTAMINE POISONING FROM CANNED TUNA** - Babić, J., Petrović, J., Kartalović, B., Pelić, M., Jakšić, S., Ćirković, M. (Serbia)

**5. A PROPOSAL OF METHODS FOR DETERMINING WATER STABILITY OF EXTRUDED FISH FEED** - Banjac, V., Čolović, R., Vukmirović, Đ., Čolović, D., Đuragić, O., Palić, D., Pezo, L. (Serbia)

**6. DETERMINATION OF THE HEAVY METALS' PRESENCE IN THE WATER AND GRAYLING MUSCLE TISSUE (*THYMALLUS THYMALLUS*) OF THE RIVER UNA** - Bećiraj, A., Džaferović, A., Dedić, S., Makić, H., Ibrahimpašić, J., Bakrac, L., Dekić, R. (Bosnia and Herzegovina)

**7. OUT OF SEASON QUALITY ASSESSMENT AND CRYOPRESERVATION OF EURASIAN PERCH (*PERCA FLUVIATILIS*) SPERM** - Bernáth, G., Bokor, Z., Žarski, D., Kása, E., Kollár, T., Várkonyi, L., Hegyi, Á., Urbányi, B., Horváth, Á. (Hungary, Poland)

**8. EFFECTS OF SUBCHRONIC TONALIDE EXPOSURE ON ZEBRAFISH, *DANIO RERIO*** - Blahova, J., Divisova, L., Enevova, V., Plhalova, L., Doubkova, V., Marsalek, P., Svobodova, Z. (Czech Republic)

**9. TROPHIC STATUS ASSESSMENT OF OČAGA RESERVOIR (LAZAREVAC, SERBIA) BY CARLSON'S INDEX** - Blagojević, A., Tanasković, A., Predojević, D., Popović, S., Jovanović, J., Trbojević, I., Subakov Simić, G. (Serbia)

- 10. FISH POPULATION FROM KLOKOT AND KRUŠNICA RIVERS** - Bećiraj, A., Tahrić, E., Šarić-Kadić, I., Ičanović, I. (Bosnia and Herzegovina)
- 11. REINTRODUCTION OF THE BURBOT TO THE HUNGARIAN AQUACULTURE (PRELIMINARY RESULTS)** - Bokor, Z., Ittész, I., Szabó, Z., Palotás, P., Szabó, T., Staszny, Á., Žarski, D., Krejszeff, S., Urbányi, B., Palińska-Žarska, K. (Hungary, Poland)
- 12. EFFECTS OF DIETARY INCLUSION OF ASTAXANTHIN ON GROWTH, MUSCLE PIGMENTATION AND ANTIOXIDANT ACTIVITY OF JUVENILE RAINBOW TROUT (*ONCORHYNCHUS MYKISS*)** - Choi, J., Rahman, M.Md., Sang-Yoon, L., Hoon Chang, K., Jun Cho, S., Jeong Seo, H., Park, H.-G., Lee, S.-M. (South Korea)
- 13. PROBIOTICS AND HERBS IN CARP (*CYPRINUS CARPIO* L.) POND AQUACULTURE - IMPACT ON FISH GROWTH, HEALTH AND PRODUCTION EFFICIENCY** - Cieśla, M., Jończyk, R., Śliwiński, J., Gozdowski, D., Kazuń, K. (Poland)
- 14. OPTIMUM DIETARY PROTEIN AND LIPID LEVELS FOR JUVENILE ROCKFISH (*SEBASTES SCHLEGELI*)** - Choi, K.D., Kim, S.H., Cho, H.S., Lee, S.-M. (South Korea)
- 15. HEMATOLOGICAL CHARACTERISTICS OF *TELESTES METOHIENSIS* (STEINDACHNER, 1901) FROM DIFFERENT HABITATS** - Dekić, R., Ivanc, A., Lolić, S., Mandić, M., Erić, Ž., Manojlović, M., Friščić, J. (Bosnia and Herzegovina)
- 16. ASSESSMENT OF TOXIC AND TRACE ELEMENTS (As, Cd, Cu, Cr, Hg, Ni, Pb, Sr, Zn) IN ZOOPLANKTON FROM CARP FISH PONDS** - Dulić, Z., Stanković, M., Živić, I., Dojčinović, B., Manojlović, D., Živić, M., Marković, Z. (Serbia)



- 17. MERCURY IN DIFFERENT MARINE FISH SPECIES ON SERBIAN MARKET** - Đinović-Stojanović, J., Nikolić, D., Stefanović, S., Vranić, D., Milijašević, M., Babić, J., Janković, J. (Serbia)
- 18. BARBEL (*BARBUS BARBUS* LINNAEUS, 1758) ENDOPARASITE FAUNA AND DIET IN THE BELGRADE SECTION OF THE DANUBE RIVER (SERBIA)** - Đikanović, V., Skorić, S., Gačić, Z., Lenhardt, M. (Serbia)
- 19. INVESTIGATION OF THE ABILITY OF FLOATING REEFS TO COLLECT YELLOWTAIL (*SERIOLA DUMERILI*) FRY FROM THE NATURE** - Gokoglu, M. (Turkey)
- 20. EFFECTS OF TUMBLING PROCESS ON PHYSICAL AND CHEMICAL PROPERTIES OF OCTOPUS (*OCTOPUS VULGARIS*)** - Gokoglu, N., Yerlikaya, P., Ucak, I., Yatmaz, A.H. (Turkey)
- 21. DISTRIBUTION OF SPECIES OF THE GENUS *PSEUDOMONAS* IN ARTIFICIAL PONDS OF ARMAVIR REGION IN ARMENIA** - Grigoryan, K.M., Sargsyan, M.P., Hovsepyan, V.V., Badalyan G.N. (Armenia)
- 22. EFFECTS OF CITRUS ESSENTIAL OIL SUPPLEMENTATION ON THE GROWTH AND SERUM BIOCHEMICAL RESPONSES OF *OREOCHROMIS MOSSAMBICUS*** - Gültepe, N., Acar, Ü., Kesbiç, S.O., Yılmaz, S., Yalgin, F., Türker, A. (Turkey)
- 23. CHEMICAL AND FATTY ACID COMPOSITION OF TURBOT (*PSETTA MAXIMA MAEOTICA*) MEAT FROM THE BULGARIAN BLACK SEA SHORES** - Hadzhinikolova, L., Ivanova, A., Hubenova, T. (Bulgaria)
- 24. LEACHING OF DIETARY MALTOSE, ECONOMIC EFFICIENCY TO NILE TILAPIA (*OREOCHROMIS NILOTICUS*) FINGERLINGS** - Ighwela, A.K., Ahmad, B.A., Abol-Munafi, A.B. (Libya, Malaysia)
- 25. SOME BIOLOGICAL PARAMETERS OF BLACK-BELLIED ANGLER FISH (*LOPHIUS BUDEGASSA* SPINOLA, 1807) IN MONTENEGRIN WATERS (SOUTH-EAST ADRIATIC)** - Ikica, Z., Đurović, M., Joksimović, A., Mandić, M., Marković, O., Pešić, A. (Montenegro)

- 26. WATER QUALITY IN CARP FARMING SYSTEMS WITH DIFFERENT LEVEL OF INTENSIFICATION** - Ivanova, A., Hadzhinikolova, L. (Bulgaria)
- 27. METALS CONCENTRATIONS IN WATER AND SEDIMENT FROM THE DANUBE RIVER** - Ivanović, J., Janjić, J., Milanov, R., Bošković, M., Glamočlija, N., Raičević, S., Baltić, Ž.M. (Serbia)
- 28. METAL CONCENTRATION IN MUSCLE TISSUE OF FISH FROM DIFFERENT FISH PONDS** - Janjić, J., Ivanović, J., Jovanović, D., Marković, R., Starčević, M., Đorđević, V., Baltić, Ž.M. (Serbia)



- 29. HUMAN EXPOSURE TO 17 ELEMENTS THROUGH MUSSELS CONSUMPTION** - Jović, M., Onjia, A., Tanaskovski, B., Stanković, S. (Serbia)
- 30. THE EFFECT OF TRANSGLUTAMINASE ADDITION ON THE QUALITY ALTERATIONS OF RAINBOW TROUT MINCE** - Yerlikaya, P., Gokoglu, N., Yatmaz, A.H., Ucak, I. (Turkey)
- 31. PRESENCE OF ORGANOCHLORINE PESTICIDES IN HAKE FILLETS** - Kartalović, B., Živkov-Baloš, M., Prica, N., Babić, J., Jovanović, S., Petrović, J., Ćirković, M. (Serbia)
- 32. MATRIX INFLUENCE IN DETERMINING ANTIPARASITIC BY HPLC** - Kartalović, B., Ćirković, M., Jakšić, S., Pelić, M., Ljubojević, D., Babić, J., Milošević, N. (Serbia)
- 33. VITRIFICATION OF THE SPERM OF EURASIAN PERCH (*PERCA FLUVIATILIS*)** - Kasa, E., Bernath, G., Kollar, T., Žarski, D., Lujić, J., Marinović, Z., Bokor Z., Hegyi, A., Urbanyi B., Horvath, A. (Hungary)
- 34. THE RELATION BETWEEN TANK COLOR AND EUROPEAN SEABASS (*DICENTRARCHUS LABRAX*) JUVENILES GROWTH PERFORMANCE** - Kesbiç, S.O., Yiğit, M., Acar, Ü., Bulut, M., Gültepe, N., Yalgin, F. (Turkey)
- 35. EFFECT OF DIETARY INCLUSION OF THE VARIOUS SOURCES OF ADDITIVES ON GROWTH, BODY COMPOSITION AND CHALLENGE TEST OF JUVENILE ROCKFISH (*SEBASTES SCHLEGELI*)** - Kim, S.H., Choi, K.D., Cho, H.S. (South Korea)
- 36. GUESTS FISH SPECIES OF THE GULF OF ANTALYA** - Kebapcioglu, T., Begburs, R.C. (Turkey)
- 37. WATER QUALITY ASSESSMENT OF VRUTCI RESERVOIR TRIBUTARIES BASED ON DIATOM INDICES** - Krizmanić, J., Subakov Simić, G., Vidaković, D., Marjanović, P. (Serbia)
- 38. RECENT ADVANCES IN WATER QUALITY MONITORING IN AQUACULTURE** - Kostić, D., Smederevac-Lalić, M., Skorić, S., Lenhardt, M., Naunović, Z., Hegediš, A. (Serbia)
- 39 THE POSSIBILITY OF CONSERVATION AND SUSTAINABLE USE OF NOBLE CRAYFISH *ASTACUS ASTACUS* IN SERBIA** - Kovačević, S., Radojković, N., Milošković, A., Radenković, M., Simić, S., Ćirković, M., Simić, V. (Serbia)
- 40. HOW FLOODING MODIFIES GENOTOXIC RESPONSE IN FRESHWATER FISH?** - Kostić, J., Kolarević, S., Kračun-Kolarević, M., Aborgiba, M., Knežević-Vukčević, J., Gačić, Z., Lenhardt, M., Vuković-Gačić, B. (Serbia)
- 41. DISTRIBUTION OF PHYTOPLANKTON AT FISH POND PREVLAKA (BARDAČA)** - Lolić, S., Matavulj, M., Dekić, R. (Bosnia and Herzegovina, Serbia)
- 42. VEGETABLE OILS IN NUTRITION OF CYPRINID FISH SPECIES** - Ljubojević, D., Novakov, N., Pelić, M., Đorđević, V., Radosavljević, V., Jovanović, R., Ćirković, M. (Serbia)

- 43.** INTENSIVE REARING PERFORMANCE OF THREE PIKEPERCH (*SANDER LUCIOPERCA*) FINGERLING POPULATIONS FROM HUNGARY - Ljubobratović, U., Péter, G., Horváth, Z., Endre, B., Lengyel, S., Kovács, G., Rónyai, A. (Hungary)
- 44.** Cu AND Zn BIOACUMULATION IN CERTAIN AQUATIC MACROPHYTES IN THE AREA OF FISH POND BARDAČA - Maksimović, T., Rončević, S., Kukavica, B., (Bosnia and Herzegovina, Serbia)
- 45.** TOWARDS IMPROVING GROWTH ESTIMATION IN FISH: MULTI-MODEL INFERENCE AND ITS APPLICATION IN FRESHWATER FISH - Marinović, Z., Lujčić, J., Bolić-Trivunović, V., Marković, G. (Serbia, Hungary)
- 46.** ULTRASOUND DIAGNOSTIC OF STURGEONS AND EXPLOITATION OF REPRODUCTIVE FEMALES AT STURGEON HATCHERY OF AZERBAIJAN - Mamedov, Ch., Hajiyeve, R., Akhundov, M. (Azerbaijan)
- 47.** INTESTINAL HISTOLOGICAL RESPONSE AFTER A MEAL IN RAINBOW TROUT (*ONCORHYNCHUS MYKISS*) - Mente, E., Berillis, P. (Greece)
- 48.** BLEAK (*ALBURNUS ALBURNUS*) AS POTENTIAL BIOINDICATOR OF HEAVY METAL POLLUTION - Milošković, A., Radojković, N., Simić, V., Kovačević, S., Simić, S., Radenković, M. (Serbia)
- 49.** MORPHOMETRIC PARAMETERS OF LOCAL CARP WITH DIFFERENT TYPES OF SCALE PATTERNS REARED IN AUTOCHTHONOUS PRODUCTION ECOSYSTEMS - Nikolova, L. (Bulgaria)
- 50.** *SPHAEROSPORA MOLNARI* (MYXOZOA) IN COMMON CARP FINGERLINGS - Novakov, N., Ćirković, M., Ljubojević, D., Adžić, B., Pelić, M., Božić, B., Babić, J., Todorović, D. (Serbia)
- 51.** SIMILARITIES AND DIFFERENCES IN THE HABITS OF FISH CONSUMERS IN THREE CITIES OF THE REPUBLIC OF SRPSKA - Ostojić, A., Vaško, Ž., Savić, N., Pavličević, J. (Bosnia and Herzegovina)
- 52.** COMPARATIVE ANALYSIS OF MORPHOMETRIC PARAMETERS OF BROWN TROUT (*SALMO TRUTTA MORPHA FARIO*) FROM LOCALITIES OF RIVERS PLIVA AND VRBANJA - Pajčin, R., Paraš, S., Savić, N., Radović, I., Filipović, S., Milavica, D. (Bosnia and Herzegovina, Serbia)
- 53.** SIGNIFICANCE OF SOCIAL NETWORKS FOR THE PROCESS OF APPLICATION FOR RURAL DEVELOPMENT SUPPORT - Papić, R., Milić, T. (Serbia)
- 54.** FOREIGN-TRADE EXCHANGE OF BOSNIA AND HERZEGOVINA WITH FISHING PRODUCTS - Pavličević, J., Ostojić, A., Glamuzina, B., Savić, N., Rozić, I., Kanlić, V. (Bosnia and Herzegovina, Croatia)
- 55.** NUTRITION OF COMMON CARP WITH FEED CONTAINING BY-PRODUCTS FROM THE SLAUGHTERHOUSE - Pelić, M., Ćirković, M., Kartalović, B., Ljubojević, D., Novakov, N., Jovanić, S., Živkov Baloš, M. (Serbia)
- 56.** CONDITION OF FISH, SEA BREAM (*SPARUS AURATA*) AND SEA BASS (*DICENTRARCHUS LABRAX*) FROM FISH FARM IN BOKAKOTORSKA BAY (SOUTH-EAST ADRIATIC) - Pešić, A., Đurović, M., Joksimović, A., Marković, O., Ikica, Z. (Montenegro)
- 57.** POSSIBLE CONTRIBUTION OF CaSA TEMPUS PROJECT TO AQUACULTURE EDUCATION AND PRACTICE (Serbia) - Poleksić, V. (Serbia)
- 58.** GENETIC STUDIES PROBLEMS OF EUROPEAN GRAYLING (*THYMALLUS THYMALLUS*) OF RUSSIAN EUROPEAN NORTH - Ponomareva, E.V., Volkov, A.A., Ponomareva, M.V., Shubina, E.A. (Russia)
- 59.** WATER QUALITY ASSESSEMENT OF JABLANICA RIVER BASED ON AQUATIC MACROINVERTEBRATE COMMUNITY - Popović, N., Marković, V., Atanacković, A., Vasiljević, B., Andus, S., Ilić, M., Kračun-Kolarević, M., Paunović, M. (Serbia)
- 60.** WATER QUALITY ASSESSEMENT OF MLAVA RIVER BASED ON AQUATIC MACROINVERTEBRATES - Popović, N., Marković, V., Tomović, J., Đuknić, J., Tubić, B., Marinković, N., Čanak-Atlagić, J., Paunović, M. (Serbia)
- 61.** THE OCCURRENCE AND POPULATION CHARACTERISTICS OF INVASIVE FISH AMUR SLEEPER (*PERCOTTUS GLENII*) IN OXBOW LAKES IN SOUTH-EASTERN POLAND - Rechulicz, J. (Poland)

- 62. INJURIES AND DEFORMITIES IN COMMON CARP FINGERLINGS GROWN IN DIFFERENT STOCKING DENSITIES - PRELIMINARY RESULTS** - Relić, R., Rašković, B., Vukojević, D., Stanković, M., Dulić, Z., Marković, Z., Poleksić, V. (Serbia)
- 63. LAKE LUDAS SPECIAL NATURE RESERVE - BACTERIOLOGICAL POINT OF VIEW** - Rudić, Ž., Vujović, B., Božić, M., Raičević, V. (Serbia)
- 64. THE INFLUENCE OF DIFFERENT NUTRITION LEVELS ON THE GROWTH CHARACTERISTICS AND MEAT TEXTURE OF THE RAINBOW TROUT (*ONCORHYNCHUS MYKISS* WAL.)** - Savić, N., Rogić, B., Drinić, M., Vučić, G., Važić, B., Kralj, A. (Bosnia and Herzegovina)
- 65 BIOLOGICAL AND ECOLOGICAL CHARACTERISTICS OF THE EUROPEAN MUDMINNOW *UMBRA KRAMERI* AS A BASIS FOR *IN-SITU* AND *EX-SITU* CONSERVATION** - Sekulić, N., Krpo-Četković, J., Jojić, V., Galambos, L., Radošević, D., Snoj, A., Šanda, R., Marić, S. (Serbia, Bosnia and Herzegovina, Slovenia, Czech Republic)
- 66. THE ROLE AND IMPORTANCE OF CENTERS FOR GENETIC IMPROVEMENT IN CONSERVATION AND SUSTAINABLE EXPLOITATION OF SALMONID FISH STOCKS** - Simić, M., Veličković, T. (Serbia)
- 67. ELEMENTS CONCENTRATION IN TISSUE OF CHUB (*SQUALIUS CEPHALUS*) FROM RESERVOIRS OF NATIONAL PARK "TARA"** - Skorić, S., Višnjić-Jeftić Ž., Smederevac-Lalić, M. Jovičić, K., Hegediš, A. (Serbia)
- 68. ELEMENT CONCENTRATIONS IN TWO FISH SPECIES WITH DIFFERENT HABITAT AND FEEDING PREFERENCES (CARP AND BURBOT) IN THE DANUBE RIVER NEAR BELGRADE** - Subotić, S., Višnjić-Jeftić, Ž., Spasić, S., Hegediš, A., Krpo-Četković, J., Lenhardt, M. (Serbia)
- 69. EVALUATION OF RIVER WATER GENOTOXICITY WITH COMET ASSAY IN DIFFERENT TISSUES OF EUROPEAN CHUB** - Sunjog, K., Kolarević, S., Kračun-Kolarević, M., Gačić, Z., Lenhardt, M., Vuković-Gačić, B. (Serbia)
- 70. COMPARATIVE ANALYSIS OF THE PRODUCTION OF DIFFERENT STOCKING CATEGORIES OF CARP IN SEMI-INTENSIVE SYSTEMS** - Stanković, M., Dulić, Z., Živić, I., Marković, Z. (Serbia)
- 71. CONCENTRATION DATA FOR 30 ELEMENTS IN THE MUSSELS *MYTILUS GALLOPROVINCIALIS*** - Stanković, S., Tanaskovski, B., Jović, M. (Serbia)
- 72. ELEMENT CONCENTRATIONS IN MUSCLE TISSUE OF TWO FISH SPECIES FROM DIFFERENT TROPHIC LEVELS (BLEAK AND PIKE) IN THE DANUBE NEAR BELGRADE** - Subotić, S., Višnjić-Jeftić, Ž., Spasić, S., Hegediš, A., Krpo-Četković, J., Lenhardt, M. (Serbia)
- 73. PROTECTION MODEL OF NATURAL RESOURCES BY INTEGRATION OF MANAGEMENT FUNCTIONS OF FISHING AND HUNTING AREAS** - Šarčević, B., Obradović, S., Stefanović, R., Radulović, M., Mirčić, D., Dekić, R., Živkov-Baloš, M. (Serbia, Bosnia and Herzegovina)
- 74. CHANGES OF THE FATTY ACID COMPOSITION AND TOTAL LIPID CONTENT IN CULTURED CARP (*CYPRINUS CARPIO* L.) CORRELATED TO SUPPLEMENTARY DIET** - Trbović, D., Marković, Z., Petronijević, R., Čanak, S., Spirić, D., Đorđević, V., Spirić, A. (Serbia)
- 75. EFFECT OF DIETARY BETAINE SUPPLEMENTATION ON SOME PRODUCTIVE TRAITS OF COMMON CARP (*CYPRINUS CARPIO* L.) CULTIVATED IN RECIRCULATION SYSTEM** - Zhelyazkov, G., Staykov, Y., Georgiev, D. (Bulgaria)
- 76. APPLICATION OF PREBIOTIC MOS IN TROUT NUTRITION** - Šarčević, B., Obradović, S., Stefanović, R., Radulović, M., Mirčić, D., Dekić, R., Živkov-Baloš, M. (Serbia, Bosnia and Herzegovina)
- 77. COMPARATIVE ANALYSIS OF THE FATTY ACID COMPOSITION OF NATURAL FOOD AND SUPPLEMENTAL FEED IN CARP FROM A FISH FARM** - Živić, I., Trbović, D., Dulić, Z., Stanković, M., Živić, M., Marković, Z. (Serbia)
- 78. MORPHOLOGICAL DEFORMITIES OF MOUTHPARTS IN GENUS *CHIRONOMUS* (DIPTERA: *CHIRONOMIDAE*) INDUCED BY HEAVY METALS** - Žunić, M., Živić, I., Stanković, M., Stojanović, K., Marković, Z. (Serbia)





## GENERAL INFORMATION

**Date and venue:** 10-12 June, 2015 Faculty of Agriculture, University of Belgrade, Nemanjina 6, Belgrade - Zemun, Serbia

**Official language of the Conference is English.** Simultaneous interpretation of the oral presentations will be provided. Serbian as well as regional languages: Bosnian, Croatian, Macedonian, Montenegrin and Slovenian should be used by presenters/lecturers for their ORAL presentations, and will be translated simultaneously into English, in order to provide translation to fishery farmers and producers. Posters and power point presentations must be prepared in English language.

**Maximum length of presentation:** invited lecturers: up to 20 minutes; other oral presentations - up to 15 minutes.



**Registration fee:** 50 EUR (6.000 RSD). EAS members have a discount of 20%. The fee includes the following: Book of proceedings, advertising material, conference dinner, and each conference day: lunch, cocktails and refreshments during breaks, visit to CEFAH "Little Danube" and boat trip on "Golden heart".

Registration fee should be paid to the account of the Faculty of Agriculture or on the spot during participant registration. Please, announce your participation for badges preparations. Members of the Scientific and Organizing Committee, invited lecturers, exhibitors, persons representing companies and guests of honor do not pay registration fees.

**Announcement of conference participation:** phone/fax: +381 11 316 8499, phone +381 11 2615 315, ext. 290; e-mail: [ribarstvo@agrif.bg.ac.rs](mailto:ribarstvo@agrif.bg.ac.rs) or mail address: Institute of Animal Sciences (for Ribarstvo), Faculty of Agriculture, Nemanjina 6, 11080 Zemun - Beograd.

### **Accommodation: Hotel "Side one"**

The Hotel is located on the Danube coast, on Zemun quai (Kej oslobođenja 19, Zemun - Beograd), not far from the Faculty of Agriculture (7 minutes by foot). Details about prices and accommodation can be found on [www.cefah.agrif.bg.ac.rs](http://www.cefah.agrif.bg.ac.rs) and [www.sideonehotel.com](http://www.sideonehotel.com). Conference participants are free to book other hotels according to their desires.



## WATER & FISH EXHIBITION

Simultaneously with the Conference, in the Hall 1 of the Faculty of Agriculture an exhibition "WATER & FISH" will be held. Besides the space available at the Faculty, exhibition stand can be booked in the open air space of the Experimental School estate Radmilovac in CEFAH "Little Danube" - Centre for Fishery and Applied Hydrobiology ([www.cefah.agrif.bg.ac.rs](http://www.cefah.agrif.bg.ac.rs)), which will be presented to Conference participants the first day of the Conference in the afternoon.



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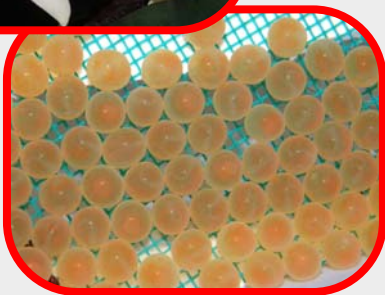
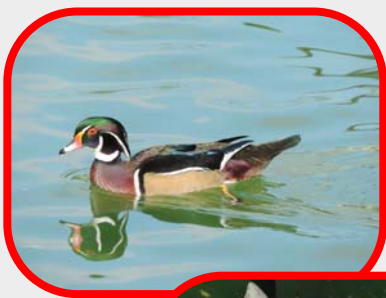
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