

DISCUSSION MATERIAL ON JOINT PROJECTS

EU projects with participation of NACEE as a separate organization:

Current: “Disease and Stress Resistant Common Carp: Combining quantitative genetic, genomic, proteomic and immunological markers to identify high performance strains, families and individuals” (EUROCARP) (1 January 2006 – 31 December 2008).

Coordinator: Research Institute for Fisheries, Aquaculture and Irrigation, Szarvas, Hungary

Consortium members:

University of Stirling, Institute of Aquaculture, Stirling, UK

CEFAS Weymouth Laboratory, Virology Research, Weymouth, UK

University of Liverpool (UOL), School of Biological Sciences, Laboratory for Environmental Gene Regulation, Liverpool, UK

AKVAFORSK - The Institute of Aquaculture Research, Ås, Norway

Russian Federal Research Institute of Fisheries and Oceanography (VNIRO), Division of Molecular Genetics, Moscow, Russian Federation

Federal Center for Fish Genetics and Selection, Moscow, Russian Federation

NACEE is involved in information dissemination.

In preparation: EASTAQUANET: development of the Network of Aquaculture Centres in Central-Eastern Europe (NACEE) for better use of water resources.

Coordinator: Research Institute for Fisheries, Aquaculture and Irrigation, Hungary

Project participants:

All-Russian Research Institute of Freshwater Fish Farming, Russian Federation

Institute for Fisheries of the Ukrainian Academy of Agricultural Sciences, Ukraine

Institute of Fisheries, National Academy of Sciences of Belarus, Belarus

Department of Aquaculture, University of Dubrovnik, Croatia, Serbia and Montenegro

Institute of Research and Development for Aquatic Ecology, Fishing and Aquaculture, Romania

EU projects with participation of NACEE members:

Current: (1) INTERREG-TACIS Project “Scientific-technical development of the conditions for the restoration of fish resources in the Lithuanian-Russian trans-border water bodies”.

Project partners:

Kaliningrad State Technical University

Lithuanian State Pisciculture and Fisheries Research Centre

(2) TEMPUS JEP Project “Curriculum Development for Competence Promotion in Environmental Management and Production Integrated Environmental Protection”

Project partners:

Volksburg University (Germany);

Kaliningrad State Technical University (Kaliningrad);

Bashkir State Pedagogical University (Ufa);

Kaunas Technological University;

Wolverhampton University (GB).

(3) SUSTAINAQ EU-FP6 Project.

Project partners:

HAKI, Szarvas, Hungary;

University of South Bohemia, Research Institute of Fish Culture and Hydrobiology, Vodňany, Czech Republic;

“Dunarea de Jos” University, Galati, Romania

plus 16 non-NACEE institutions from Norway, Netherlands, France, Croatia, Poland, Turkey.

(4) "Improvement of the quality of fish grown in recirculation systems using algae" (PEARL) – ECO-NET Programme

Project partners:

“Dunarea de Jos” University, Galati, Romania;

University of South Bohemia, Research Institute of Fish Culture and Hydrobiology, Vodňany, Czech Republic;

VNIRO, Moscow, Russian Federation;

plus other two non-NACEE institutions from France and Croatia.

(5) LAGUNEST Project in ECO-NET Program: “Dunarea de Jos” University, Galati, Romania with other three non-NACEE institutions from France, Georgia and Bulgaria.

(6) AQUA-TNET Network (European Commission Socrates Thematic network for Aquaculture, Fisheries and Aquatic Resource Management) (IFF, Plovdiv, Bulgaria, and others)

(7) International Research Consortium “Aquagenom”

Project partners:

VNIRO, Moscow, Russian Federation

Institut National de la Recherche Agronomique, France

Institute of Marine Research, Norway

Algarve University, Portugal

Genesis Faraday, United Kingdom

Zoological Institute of Göteborg University, Sweden

University of Stirling, United Kingdom,

Syndicat des Sélectionneurs Avicoles et Aquacoles Français, France,

Hellenic Centre for Marine Research, Greece,

Instituto Investigaciones Marinas, Spain

Proposed: (1) TEMPUS programme “Development of Master Program in Aquaculture and Fisheries»

Possible partners: a representative of an EU country, e. g. Wageningen University, Netherlands, NACEE member universities - Kaliningrad State Technical University, Astrakhan State Technical University, Kherson State Agrarian University, University of Dubrovnik, University of Kaposvár?

Duration of the project – 3 years (2007-2009).

Budget – 450 000 euros.

Bi- and multilateral projects between NACEE members:

Current: (1) Belorussian-Ukrainian project on ligulosis (Institute of Fisheries, Minsk, Belarus – Institute of Fisheries, Kiev, Ukraine)

(2) Methodological foundations of forming and utilization of broodstocks of sturgeon species and breeds (FCFGS-BIOS).

(3) Including aquaculture into the Russian National Project “Development of the Agricultural Industry Complex of the Russian Federation” and development of the Strategy of Aquaculture Development of the Russian Federation until 2020 (FCFGS-VNIRO)

(4) Development of bioeconomic models of creating competitive resource-saving biotechnologies for rearing aquaculture objects using modern information technology (FCFGS-BIOS)

(5) «Evaluation of the status of stocks of living aquatic resources and predicting catches for 2007 in Lake Vishtynetskoe, Kaliningrad Province» (VNIRO-KSTU)

(6) Natural reproduction of salmonids in rivers of the Baltic Basin (GosNIORH-KSTU)

(7) Contact Project on artificial reproduction of rare and endangered species (VÚRH, Vodnany, Czech Republic – VNIRO, Moscow, Russian Federation)

In preparation: „Conservation of the population of Danube salmon (*Hucho hucho*) in Transcarpathian rivers of Ukraine, (Institute of Fisheries, Kiev, Ukraine – HAKI, Szarvas, Hungary)

Proposed: (1) «Study of genomics of cultured fishes and development of molecular genetic methods of forming broodstocks for effective reproduction, biodiversity conservation and selection of highly productive fish breeds and crosses»: more than eight NACEE member institutions could participate, time frame: 2007-2010, budget – 1-1.2 M euros;

(2) «Study of characteristics of fishes for keeping them in collection stocks and development of normative and technical documentation on forming and utilization of native and frozen gene bank collections of sturgeons, salmonids and cyprinids with potential for aquaculture»: more than ten NACEE member institutions could participate, time frame: 2007-2010, budget – 0.8-1 M euros.

(3) «Study of the current status and development of the strategy of aquaculture development in countries of Central and Eastern Europe for the period up to 2020-2030»: could be sponsored by FAO and done by representatives of all countries, budget 250 000-300 000 euros.

Themes proposed by NIRHS, Moldova

<i>Themes/projects</i>	<i>Suggested partners</i>	<i>Duration</i>	<i>Amount</i>
<i>1. Conservation and rehabilitation of populations of economically valuable, rare and endangered fish species:</i>			
• «Conservation of the gene pool of sturgeons and rehabilitation of their natural populations»	Ukraine, Romania, Russian Federation	5 years	800 000 €
• «Complementing the gene pool of pond populations of economically valuable species and their rehabilitation in natural waters»	Ukraine, Romania, Poland, Russian Federation, Belarus etc.	3 years	200 000 €
• «Genetic monitoring of populations of economically valuable fishes in rivers Dniester and Prut»;	Ukraine, Romania	3 years	300 000 €
<i>2. Intensification of pond fish culture:</i>			
• «Creation of newly selected breeds and development of normative-technological documentation on their utilisation»;	Russian Federation, Ukraine, Belarus	3 years	300 000 €
• «Development of resource-saving technologies of pond fish culture».	Belarus, Russian Federation, Ukraine	3 years	200 000 €
<i>3. Product quality and food safety:</i>			
• «Introduction of breeds with increased resistance to infectious diseases into fish farming ».	Ukraine, Belarus etc.	3 years	150 000 €
• «Increasing the species diversity of freshwater aquaculture».	Russian Federation, Romania, Ukraine, Poland, Hungary	3 years	300 000 €
• «Monitoring of the epizootic status of water bodies and development of genetic methods of disease prevention»;	Ukraine, Romania	3 years	300 000 €

<i>Themes/projects</i>	<i>Suggested partners</i>	<i>Duration</i>	<i>Amount</i>
• «Development of methods and normatives of fisheries biological melioration and monitoring of the ecological status of ponds»;	Ukraine, Romania	3 years	300 000 €
• «Development of the technical paper: «Fish and fish products. Production and commercialization».	Ukraine, Belarus	1 year	100 000 €

Bi- and multilateral projects with non-NACEE partners:

Current: (1) “Evaluation of consequences of the climate change on biological diversity and biological resources of Russian Federation” (Institute of Development Biology, Russian Federation – Kaliningrad State Technical University)

(2) Contract between VNIRO (Russian Federation) and IFREMER (France)

(3) Contract between VNIRO (Russian Federation), the University of Granada (Spain) and the Sierra Nevada Fish Farm (Spain)

(4) Non-Commercial Research Consortium including VNIRO (Russian Federation), the University of California (USA) and the University of Ferrara (Italy)

Other programmes of interest:

(1) Institute of Fisheries, Minsk, Belarus: interested in training courses on indigenous fishes, salmonids, fish pathology

(2) BIOS, Astrakhan, Russian Federation: offers training courses on sturgeon culture.

(3) “Dunarea de Jos” University, Galati, Romania: interested in organisation of training course program in management of freshwater aquaculture effluents.

(4) VÚRH, Vodňany, Czech Republic: Offers doctoral study on Fishery. It can be studied either in a full-time form, or in a combined form, in Czech or in English, for a standard period of three years in University of South Bohemia, Research Institute of Fish Culture and Hydrobiology at Vodňany, Czech Republic. Scholarship belongs to full-time students studying in the regime of Czech students, for 36 months. Applications (<http://www.vurh.jcu.cz/langl/aplication.rtf>) should be addressed to University of South Bohemia České Budějovice, Research Institute of Fish Culture and Hydrobiology, Zátiší 728/II, 389 25 Vodňany, Czech Republic no later than 10 May 2007.

General proposals:

(1) More information to the NACEE coordinating institution on projects of member institutions, posting the information to the NACEE website.

(2) Improvement of information exchange between NACEE and other organizations.

(3) Research institutes from CEE countries often do not have information on R&D calls in aquaculture, it would be useful if every institution knowing of such information could place a corresponding link on the NACEE webpage.

(4) Joint projects and exchange of specialists between NACEE member institutions were not implemented in the last period due to the lack of financing. Generally the search for project financing is done separately by each institution, with considerable efforts. For execution of joint work, financing from international organizations is essential, as the national financing sources do not allow passing of scientific information to other countries. In connection with this, joint participation in international projects is essential.

(5) Development of projects important for a number of NACEE member countries, informing governments of these countries on these projects and seek methodological and practical assistance of FAO for development of these projects.

- (6) Accelerated preparation to the EU seventh Framework Programme (identifying partners, searching for available projects)
- (7) There is much interest toward participation in international calls, in relation to which, it would be very useful to hold a special course in one of the NACEE member institutes with involvement of specialists from the EU, FAO and other international organizations and funds that publish calls in aquaculture-related themes. FCFGS and GosNIORKH indicated readiness to host such a course in Saint-Petersburg.
- (8) For organizing training courses, we have to first compile a list of problems and issues on which training is required. On the basis of such a list, organizations in capacity of holding such courses can be determined, which, in their own turn, set the date and venue of the course.
- (9) Investigate the possibility of participation of NACEE members in development and evaluation of the government documents determining the status and development perspectives of aquaculture in the countries of Central and Eastern Europe – this might be necessary to do under the banner of FAO.