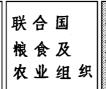
June 2006





Food and Agriculture Organization of the United Nations

Organisation des Nations Unies pour l'alimentation et l'agriculture Organización de las Naciones Unidas para la Agricultura y la Alimentación

EUROPEAN INLAND FISHERIES ADVISORY COMMISSION

SYMPOSIUM ON HYDROPOWER, FLOOD CONTROL AND WATER ABSTRACTION: IMPLICATIONS FOR FISH AND FISHERIES

Mondsee, Austria, 14-17 June 2006

PROVISIONAL AGENDA AND TIMETABLE

CHAIRMAN: Wolfgang Stalzer, Vienna, Austria CONVENER: Robin Welcomme, Stocke by Clare, UK TECHNICAL SECRETARY: Gerd Marmulla, FAO

VENUE: Conference Centre at the Mondsee Palace, Mondsee, Austria

Wednesday, 14 June 2006

08.00-09.00 Registration

09.00.09.30 Symposium opening and welcome addresses

Session 1 – Assessment of Issues and Impacts

Chair: S. Schmutz

09.30-09.50 Status of hydropeaking in Switzerland with a special focus on the

Rhone River

Peter, A., Meile, T., Fette, M. & Baummann, P.

09.50-10.10 Regulated discharge produces severe effects on fish community in

the grayling zone of a small salmonid stream

Ovidio, M., Capra, H., Orban, P. & Philippart, J.C.

10.10-10.30 Winter mobility patterns of juvenile Atlantic salmon in relation to

turbulence and ice information in a regulated river

Enders, E.C., Stickler, M., Pennel, C.J. Alfredsen, K. & Scruton,

D.A.

10.30-11.00 Coffee/tea break

11.00-11.20	Effect of flow regulation on the distribution of fish abundance and biomass; comparison of cascade and non cascade reservoirs <i>Draštik, V., Kubečka, J. & Tušer, M.</i>
11.20-11.40	The effect of the construction of artificial reservoir on the fish population in the inflowing river <i>Hladík, M. & Kubečka, J.</i>
11.40-12.00	Entrainment and damage of young-of-the-year fish by the power station on the Dyje River, Czech Republic Janáč, M., Jurajda P., Prášek, V. & Kružiková, L.
12.00-12.20	Influence of the Wloclawek dam on migratory fishes in the Vistula River <i>Bartel, R., Wiśniewolski, W. & Prus, P.</i>
12.20-14.00	Lunch
14.00-14.20	Influence of exploitation of electropower stations on structure of fish population in the upper Dunajec River (South Poland) <i>Augustyn, L. & Bartel, R.</i>
14.20-14.40	Reservoirs fisheries in Turkey <i>Tüfek, Ö.M.</i>
14.40-15.00	Impacts of flood control schemes in Bangladesh and guidelines for mitigation $Halls, A.$
15.00-15.20	Effects of hydro power operation and other pressures on fish in Austrian Rivers MIRR – a model-based instrument for river restoration in Austria Melcher, A., Zitek, A., Poppe, M. Muhar, S., Jungwirth, M. & Schmutz, S.
15.20-15.40	Assessment of hydropower, flood control and water abstraction impacts on fish and fisheries: a session summary <i>Schmutz</i> , <i>S</i> .
15.40-16.10	Coffee/tea break
	habilitating and Mitigating Mechanisms air: Armstrong, G.
16.10-16.30	Mitigating impacts of water infrastructure on fish movements: a Canadian perspective <i>Katopodis</i> , <i>C</i> .
16.30-16.50	Weir Removal in salmonid streams: implications, challenges and practicalities in the Iberian Peninsula <i>Garcia de Leaniz, C.</i>
16.50-17.10	Re-establishing connectivity in a Danube-tributary system <i>Zitek, A., Schmutz, S. & Jungwirth, M.</i>
17.10-17.30	Provision of upstream fish passage by means of nature-mimicking fish passes <i>Redeker, M.</i>
17.30-17.50	Development of new dimensioning specifications for fish passage structures with perturbation boulders <i>Heimerl, S. & Wurster, H.</i>

17.50-18.10 Discussion *Armstrong, G.*

19.30 Welcome reception by the minister of Agriculture and Forestry, Environment and Water Management and the Governor of Upper Austria

Thursday, 15 June 2006

Session 2 (cont'd) - Rehabilitating and Mitigating Mechanisms

- 08.30-08.50 Fish passage experience at small-scale hydro powerplant in France *Larinier*, *M*.
- 08.50-09.10 Mitigating the effects of high head dams on the Columbia River, USA: experience from the trenches *Williams, J.G.*
- 09.10-09.30 Fish Passage and Hydroelectricity: A Synopsis of Comprehensive Studies of Upstream and Downstream Passage of Anadromous Wild Atlantic Salmon, Salmo Salar, on the Exploits River, Canada Scruton, D.A., Pennell, C.J., Bourgeois, C.E., Goosney, R.F., Porter, T.R., Ollerhead, L.M.N., Clarke, K.D., Booth, R.K. & Eddy, W.
- 09.30-09.50 Fish behaviour and passage efficiency: lessons from North America *Kemp, P.S., Gessel, M.H. & Williams, J.G.*
- 09.50-10.10 Advances in intake and outfall fish screening *Turnpenny*, *A*.
- 10.10-10.30 Strategy for the mitigation of the effect of the Kuban River flow regulation on sturgeon reproduction *Chebanov, M.S., Galich, E.V. & Ananyev, D.V.*

10.30-11.00 Coffee/tea break

- 11.00-11.20 Study on upstream and downstream migration facilities at the Sieg River technical solutions, efficiency of upstream migration, total mortality of downstream migration, costs and energy loss at hydro power stations

 Dumont, U.**
- 11.20-11.40 Rotation screen prevents fish damage in hydroelectric power stations

 Hartvich, P., Dvořák, P. & Vrána, P.
- 11.40-12.00 Ecological and behavioural background of constructions facilitating migrations and preventing mass loss of fish in regulated rivers

 Pavlov, D.S., Lupandin, A.I. & Mikheev, V.N.
- 12.00-12.20 Behavioural patterns of Iberian Barbels' upstream movements through an artificial pool-type fishway Silva, A.T., Franco, A.C., Santos, J.M., Ferreira, M.T., Pinheiro, A.N., Melo, J.F. & Bochechas, J.H.

12.20-14.00 Lunch

14.00-14.20 The restoration of unobstructed fish migration within a "heavily modified water body", example of the lower River Ruhr *Jäger*, *S*.

	14.20-14.40	Improvement of the effect of fishways by leading currents and the design of structures in the River Channel Kraetz, D., Voelker, J. & Hassinger, R.			
	14.40-15.00	An experimental and numerical study of turbulent flow in vertical slot fishways Tarrade, L., Texier, A., David, L., Larinier, M. & Manceau, R.			
	15.00-15.20	The use of a portable fishway to test the swimming ability of migrating fish in rivers <i>Kotze, P.J., Ross, M.J., Deacon, A.R. & Niehaus, B.H.</i>			
	15.20-15.40	The canoe-fishway - a combination of fish migration and canoe passage in the same channel <i>Hassinger</i> , <i>R</i> .			
	15.40-16.10	Coffee/tea break			
	16.10-16.30	River rehabilitation for fish in central Italy: the River Panaro project Pini Prato, E., Ferri, M., Comoglio, C., Gianaroli, M., Marconato, E., Maio, G., Larinier, M. & Marmulla, G.			
	16.30-16.50	Effects of hydropower installations and associated river regulation on River Shannon eel populations: historical perspectives, fishery management responses and current research objectives <i>McCarthy, T.K., Cullen, P., Blaszkowski, M., O'Connor, W., Doherty, D., & Frankievich, P.</i>			
	16.50-17.10	Eel protection measures within the manapouri hydro-electric power scheme, South Island, New Zealand <i>Boubée, J., Jellyman, D. & Sinclair, C.</i>			
	17.10-17.30	Evaluation of surface and bottom bypasses to protect eel migrating downstream at small hydroelectric facilities in France <i>Travade, F., Larinier, M., Gosset, C., Durif, C., Rives, J. & Elie, P.</i>			
	17.30-17.50	Facilities for upstream migration of eels and elvers at man-made obstructions <i>Solomon, D.</i>			
	17.50-18.50	Poster Session			
Friday, 16 June 2006					
	Session 3 – Environmental Flow Criteria; Methodology and Practice Chair: Cowx, I.				
	09.00-09.30	Living without water: establishing environmental flows for fish <i>Noble, R.A., Cowx, I.G. & Welcomme, R.</i>			
	09.30-09.50	What is sufficient water flow in strongly regulated salmon rivers? <i>Johnsen, B.O. & Hvidsten, N.A.</i>			
	09.50-10.10	Regionalisation of instream flow results in Tiber basin <i>La Porta, G., Spigonardi, M.P., Lorenzoni, M. & Mearelli, M.</i>			
	10.10-10.30	Environmental effects of 'hydropeaking' power generation: experimental studies of response of juvenile salmon and trout to flow modification Scruton, D.A., Pennell, C., Ollerhead, L.M.N., Robertson, M., Clarke, K.D., Alfredsen, K., Strickler, M., Harby, A. & LeDrew, L.J.			

10.30-11.00	Coffee/tea break	
11.00-11.20	Dam operation rules based on brown trout flow requirements: design of environmental flow regimes in regulated streams <i>Alonso-González, C., Gortázar, J., Baeza Sanz, D., & García de Jalón, D.</i>	
11.20-11.40	A case study for the determination of the D.M.V.(Minimum Flow Released) on biological basis for a new artificial basin <i>Nocita, A., Pini, G., Bartali, S., Pini Prato, E. & Schweizer, S.</i>	
11.40-12.00	Approaches for setting ecological flows: a Canadian perspective <i>Katopodis, C.</i>	
12.00-12.20	Assessing and validating environmental flows in Austrian rivers <i>Unfer, G., Zeiringer, B., Jungwirth, M. & Schmutz, S.</i>	
12.20-14.00	Lunch	
Session 4 – Soc	cial, Economic, Conservation and Legal Issues	
Cha	air: Castelnaud, G. & Brenner, T.	
14.00-14.20	Examples from the Danish management scene: Migratory fish and river obstacles <i>Jepsen, N. & Rasmussen, G.</i>	
14.20-14.40	Fishes as promotors for new approaches in integrative river management <i>Jungwirth, M., Muhar, S., Schmutz, S. & Unfer, G.</i>	
14.40-15.00	Priority list for re-establishing the river continuity in Austrian rivers <i>Mader, H., Maier, C.</i>	
15.00-15.20	Strategies for the conservation of endangered fish communities affected by flow regulation and increasing urbanization. application to River Perales Basin (Spain) Marchamalo, M., Alonso, C., Baeza, D., Vizcaíno, P., & García de Jalón, D.	
15.20-15.40	Experiences from across the pond: Modelling downstream migration and survival of juvenile pacific salmon through the Columbia River hydropower system <i>Zabel, R.W.</i>	
15.40-16.10	Coffee/tea break	
16.10-16.30	Atlantic salmon in the regulated River Alta: Changes in juvenile and adult abundance <i>Næsje, T.F., Thorstad, E.B., Ugedal, O. & Forseth, T.</i>	
16.30-16.50	Atlantic salmon in the regulated River Alta: effects of changed environmental conditions during winter on juvenile salmon <i>Ugedal, O., Finstad, A.G., Forseth, T., Thorstad, E.B. & Naesje, T.F.</i>	
16.50-17.10	How to operate a power station in a sensitive river: challenges and experiences <i>Tvede</i> , <i>A</i> .	

Legislation and experience in assessment the hydropower impact 17.10-17.30

on fisheries in Latvia

Mitans, A.

A legal framework for granting public financial aid, to construct new or modernize existing fish passes in Poland 17.30-17.50

Stachowiak, P.M.

17.50-18.50 **Poster Session**

Saturday, 17 June 2006

Session 5 – Conclusions and Recommendations

Chair: Welcomme, R.

09.00-13.00 Presentation of Symposium report