

Program of the

**ICES/PICES/UNCOVER Symposium on Rebuilding Depleted Fish Stocks –
Biology, Ecology, Social Science and Management Strategies**

3–6 November 2009 in Warnemünde/Rostock, Germany
Yachthafenresidenz Hohe Düne, Am Yachthafen 1, 18119 Rostock Warnemünde

Monday, November 2nd 2009

1500 **Opening registration**

1900-2100 **Symposium reception**

Tuesday, November 3rd 2009

0830 **Opening addresses**

Cornelius Hammer, UNCOVER project coordinator and symposium convener

Gerd Hubold, General Secretary of the International Council for the Exploration of the Sea (ICES)

Gordon Kruse, delegate North Pacific Marine Science Organization (PICES) and symposium convener

0900 **Main symposium keynote**

Steven Murawski, Director of Scientific Programs and Chief Science Advisor for NOAA Fisheries (USA)

“Rebuilding depleted fish stocks: The good, the bad and the mostly ugly”

1000 **Coffee break**

Theme Session 1: Impact of Fisheries and Environmental Impacts on Stock Structure, Reproductive Potential and Recruitment Dynamics

Chaired by Toyomitsu Horii (Japan) and C. Tara Marshall (Scotland)

1030-1100 **Session keynote**

Horii, T. and Akihiko Yatsu

"Impacts of fisheries and regime shift on fluctuations of finfish and shellfish stocks in Japan"

1100-1120 **Mantzouni, I.** and MacKenzie, B. R.

“Productivity patterns and abundance-area relationships in 3 marine fish species (cod, herring and haddock): Meta-analyses on the effects of temperature, life-history and habitat size across the N Atlantic”

1120-1140 **Payne, M. R.**, Christensen, A., Munk, P., Nash, R. D. M., and Dickey-Collas, M.

“The role of spatial processes in North Sea herring larval survival and recruitment”

Tuesday, November 3rd 2009 continued

1140-1200 Dingsør, G. E., Huse, G., and Llope, M.
“Spatial distribution and population dynamics of herring and cod in the North Sea”

1200-1220 Rijnsdorp, A. D., van Damme, C. M. and Witthames, P. R.
“Implications of fisheries-induced impacts on the stock structure and reproductive potential on stock-recovery of a sexual dimorphic species, North Sea plaice”

1230-1330 Lunch

Theme session 1 continued

1330-1350 Lambert, Y.
“Variations in the life history traits and intrinsic rate of population growth of cod in the northern Gulf of St. Lawrence and their impact on the rebuilding capacity of the population”

1350-1410 Opdal, A. F. and Vikebø, F.
”Disentangling the cost-benefit hypothesis of long distance spawning migrations in the Northeast Arctic cod”

1410-1430 Krysov, A.
”Reproductive capacity of the Norwegian spring spawning herring in the period of global stock change”

1430-1450 Voss, R., Köster, F. W., Schmidt, J. O., Peck, M. A., Möllmann, C., Kraus, G., Stepputtis, D., and Hinrichsen, H.-H.
“Yes, we can – the successful recovery of the Baltic sprat stock”

1500-1530 Coffee break

Theme session 1 continued

1530-1550 Brunel, T.
“Influence on the age composition of the spawning stock on recruitment: a meta-analysis”

1550-1610 Huret, M., Petitgas, P., Grellier, P., and Bourriau, P.
“The space-time variability of anchovy larval survival in the Bay of Biscay using a biophysical model”

1610-1630 Petitgas, P., Secor, D., McQuinn, I., Huse, G., and Lo, N.
”What is a collapsed stock? Mechanisms that sustain life cycle closure in space and time”

1630-1650 Enberg, K. S., Jørgensen, C., Dunlop, E. S., **Heino, M.,** and Dieckmann, U.
”Implications of fisheries-induced evolution for stock rebuilding and recovery”

Wednesday, November 4th 2009

Theme Session 2: Trophic controls on stock recovery

Chaired by Axel Temming (Germany) and Bjarte Bogstad (Norway)

0830-0900 Session keynote

Temming, A., Kempf, A., Flöter, J., and Vinther, M.

"Recovering stocks of predators: what can managers learn from multi-species models?"

0900-0920 Andersen, K. H. and Rice, J.

"Indirect effects of recovery strategies"

0920-0940 Andonegi, E., Quinoces, I., Howell, D., and Stefansson, G.

"A multi-species model in the Bay of Biscay using Gadget: implementing European hake and anchovy relationships"

0940-1000 Cerviño, S., Howell, D., Velasco, F., Preciado, I., Olaso, I., Punzón, A., Jardim, E., and Cardador, F.

"Assessing the importance of cannibalism for recovery plan in Southern hake using age-length structured model"

1000-1020 Filin, A.

"Simulation of capelin impact on cod stock recovery rate in the Barents Sea"

1030-1100 Coffee break

Theme session 2 continued

1100-1120 Kempf, A., Huse, G., Dingsør, G., Floeter, J., Temming, A., and Vinther, M.

"The importance of overlap – predicting North Sea cod recovery with a multi-species fisheries assessment model"

1120-1140 Neuenfeldt, S. and Köster, F. W.

"Baltic cod cannibalism: Differing consequences at stock recovery versus the historic situation of cod decline?"

1140-1200 Schweigert, J. F., Flostrand, L., and **Cleary, J. S.**

"Factors affecting recovery of Pacific herring stocks in Canada"

1200-1220 O'Boyle, B. and Sinclair, M.

"Cod-Seal interactions on Eastern Scotian Shelf: Consideration of modelling assumptions"

1220-1240 Dolgov, A. V.

"Influence of intraspecific and interspecific food competition on ability of the Barents Sea cod stock to recover"

1245-1345 Lunch

Wednesday, November 4th 2009 continued

Theme Session 3: Methods for analysing and modelling stock recovery

Chaired by Ana M. Parma (Argentina) and Laurence T. Kell (Spain)

- 1345-1415** **Session keynote**
Parma, A. M.
"The design of a rebuilding strategy for Southern Bluefin Tuna: from theory to practice"
- 1415-1435** **Eero, M., Jarre, A., Ojaveer, H., Tomczak, M. T., Lindegren, M., and Köster, F. W.**
"An ecosystem-based framework for tracking performance of fish stocks and related forcings using fuzzy-logic approach"
- 1435-1455** **Cleary, J. S. and Schweigert, J. F.**
"Harvest control rules for Pacific herring management: business as usual or in need of repair?"
- 1455-1515** **Gårdmark, A., Möllmann, C., Neuenfeldt, S., Blenckner, T., Lindegren, M., Aro, E., Bastardie, F., Heikinheimo, O., Müller-Karulis, B., Niiranen, S., Tomczak, M. A., van Leeuwen, A., and Wikström, A.**
"Biological Ensemble Modeling of the Eastern Baltic cod future"
- 1515-1535** **Hinrichsen, H.-H., Dickey-Collas, M., Huret, M., Peck, M. A., and Vikebø, F.**
"Evaluating the suitability of coupled bio-physical models for the development of recovery plans of collapsed fish populations"
- 1545-1615** **Coffee break**
- Theme Session 3 continued**
- 1615-1635** **Howell, D. and Bogstad, B.**
"Assessing the likely consequences of differing management rules and environmental factors in the Barents Sea using a multispecies Gadget operational model"
- 1635-1655** **Hurtado-Ferro, F. and Shirakihara, K.**
"Could a different management approach recover the Japanese sardine stock from depletion?"
- 1655-1715** **Juan-Jorda, M. J., Mosqueira, I., and Freire, J.**
"Fishing impacts on biomass and mean body size of Scombrid populations on a global scale"
- 1715-1735** **Kraus, G., Karasiova, E. M., Voss, R., Köster, F. W., Bleil, M., and Oeberst, R.**
"Egg production methods as a fishery independent alternative to assess the Eastern Baltic cod stock"
- 1735-1755** **Vermard, Y., Lehuta, S., Mahévas, S., Thébaud, O., Marchal, P., and Gascuel, D.**
"Combining fleet dynamics and population dynamics for a volatile fishery: the example of the anchovy fishery of the Bay of Biscay"
- 1900-2200** **Poster session**

Thursday, November 5th 2009

Theme Session 4: Social and economic aspects of fisheries management and governance

Chaired by Denis Bailly (France) and Douglas C. Wilson (Denmark)

0830-0900 **Session keynote**

Bailly, D.

"Pathways for a knowledge based governance in fisheries"

0900-0920 **Arnason, R.**

"Optimal stock re-building of Icelandic cod: Social considerations

0920-9040 **Delaney, A. E.**

"Who would have thought it would come to this? Social impact assessments and community sustainability in North Sea fishing communities"

0940-1000 **Järvik, A., Raid, T., Järv, L., and Sadul, J.-V.**

"The social aspects of overexploitation of fish resources on small-scale fishery: ways of mitigation the effects on coastal communities"

1000-1020 **Da-Rocha, J.-M., Cerviño, S., Fernandez, C. and Gutierrez, M. J.**

"The Economic Assessment of the Southern hake recovery plan"

1030-1100 **Coffee break**

Theme session 4 continued

1100-1120 **Dankel, D. J., Heino, M., and Dieckmann, U.**

"Can integrated assessments reconcile stakeholder conflicts of interest in marine fisheries management?"

1120-1140 **Strehlow, H. V.**

"What's Next? One Year after the Implementation of the Cod Recovery Plan in the Baltic Sea - The Cases of Freest and Heiligenhafen, Germany"

1140-1200 **Garcia, D. and Prellezo, R.**

"Fleet reaction to management advice, a key process for success of management plans"

1200-1220 **Cox, A. and Khwaja, S.**

"Rebuilding fisheries: An overview of policy approaches in the OECD"

1220-1240 **Wilson, D. C. and Becker Jacobsen, R.**

"Governance Issues around Recovery plans in a Mixed Fisheries Context"

1250-1350 **Lunch**

Thursday, November 5th 2009 continued

Theme Session 5: Management & Recovery strategies

Chaired by Joseph E. Powers (USA) and Fritz W. Köster (Denmark)

- 1350-1420** **Session keynote**
Powers, J. E. and Hedges Monk, M.
“Recovery strategies: science, enforcement and allocation”
- 1420-1440** **Dankel, D. J.**, Jacobson, N., Georgianna, D., and Cadrin, S. X.
”Facilitating policy analysis of different gear types: Can we increase haddock yield within the constraints of the Magnuson-Stevens Act?”
- 1440-1500** **Holt, C.**
”Will depleted populations recovery under Canada's Wild Salmon Policy? An evaluation of benchmarks for assessing biological status”
- 1500-1520** **Brodie, W. B.** and Walsh, S. J.
”Evaluation of the Recovery of the Yellowtail Flounder Stock on the Grand Bank”
- 1520-1540** **DiCosimo, J.** and Methot, R. A.
”Use of Annual Catch Limits to Avoid Depleting Fish Stocks in U.S. Fisheries”
- 1545-1615** **Coffee break**

Theme session 5 continued

- 1615-1635** **Dickey-Collas, M.**, Nash, R. D. M., Brunel, T., van Damme, C. J. G., Marshall, C. T., Payne, M. R., Corten, A., Geffen, A. J., Peck, M. A., Hatfield, E. M. C, Hintzen, N., Enberg, K., Kell, L., and Simmonds, J.
”What can we learn from the stock collapse and recovery of North Sea herring? A review”
- 1635-1655** **Aps, R.** and Lassen, H.
“Three decades of the Baltic fisheries management – lessons learned”
- 1655-1715** **Kruse, G. H.**, Zheng, J., and Stram, D. L.
”Recovery of the Bristol Bay Stock of Red King Crabs under a Rebuilding Plan”
- 1715-1735** **Bastardie, F.**, Vinther, M., Nielsen, J. R., Ulrich, C., and Storr Paulsen, M.
”Evaluation of the multiannual plan for the cod stocks in the Baltic Sea”
- 1735-1755** **Hammer, C.**, von Dorrien, C., Hopkins, C. C. E., Köster, F. W., Neuenfeldt, S., St. John, M. A., and Wilson, D. C.
” UNCOVER: Fish Stock Recovery Strategies – Lessons learned in the Baltic Sea”
- 1930-2230** **Symposium dinner at Bootshalle**

Friday, November 6th 2009

0830-1300 Panel discussion

On the panel:

Michael Andersen, Baltic Fishermen's Association

Kevern Cochrane, United Nations, Food and Agricultural Organization (FAO)

Poul Degnbol, EU Commission, DG MARE

Gordon Kruse, University of Alaska Fairbanks, School of Fisheries and Ocean Sciences

Philippe Moguedet, EU Commission, DG Research

Karoline Schacht, World Wide Fund for Nature, Germany

Peter Shelton, Fisheries and Oceans Canada/Ministère des Pêches et des Océans

The panel discussion will be moderated by

Ralf Röchert, Department of public relations, Alfred Wegener Institute Bremerhaven, Germany

0830-0845 Introduction of panelists

0845-0855 Summary theme session 1 by Toyomitsu Horii

0855-0920 Discussion panel

0920-0930 Comments & questions audience

0930-0935 Summary theme session 2 by Axel Temming

0935-1000 Discussion panel

1000-1010 Comments & questions audience

1010-1015 Summary theme session 3 by Ana M. Parma

1015-1140 Discussion panel

1040-1050 Comments & questions audience

1050-1115 **Coffee break**

Panel discussion continued

1115-1120 Summary theme session 4 by Denis Bailly

1120-1145 Discussion panel

1145-1155 Comments & questions audience

1155-1200 Summary theme session 5 by Joseph E. Powers

1200-1225 Discussion panel

1225-1235 Comments & questions audience

1235-1250 Key take home messages from the symposium, by Steven Murawski

1300 **Closing of the symposium**