



Fisheries and Oceans Pêches et Océans Canada

Canada

INTERNATIONAL AQUACULTURE WORKSHOP

Environmental and Social Responsibility for Sustainable Aquaculture

Sponsored by Canada – Chile Collaborative Agreement on Environmental **Management of Aquaculture**

Santo Tomas University Buena Vecindad # 91, Puerto Montt, Chile March 20-21, 2006

Objectives

- To better understand future trends and upcoming issues from an industry, non-governmental organization, academic and government perspective.
- To improve environmental management of the sector to ensure market viability and competitiveness, public confidence, and environmental sustainability.
- To share best practices and experiences related to environmental management of the • aquaculture sector.
- To discuss opportunities for future collaboration.

Monday March 20, 2006

09:00-09:05	Welcome Mr. Lautaro Contreras Director Santo Tomas University, Puerto Montt.
09:05-09:20	Overview on environmental sustainability in Aquaculture Dr. Wendy Watson-Wright Assistant Deputy Minister-Science, Fisheries and Oceans Canada.
	Mr. Ricardo Norambuena

Head of Aquaculture Division, Undersecretariat for Fisheries, Chile.



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Session I. Environmental Monitoring of Aquaculture Chair: Dr. Alex Brown, Aquaculture Specialist, Chile.

- 09:20-09:50 Environmental Monitoring of Marine Aguaculture in Canada Dr. Toby Balch Nova Scotia Provincial Government, Canada.
- 09:50-10:20 Environmental Monitoring and Aquaculture: concepts, comments and challenges Dr. Leonardo Guzmán Director Aquaculture Division IFOP, Chile.
- 10:20-10:35 Discussion and questions
- 10:35-10:50 Coffee Break

Session II. Sedimentation Modeling of Aquaculture

Chair: Dr. Al Castledine, Provincial Gov. of British Columbia, Canada.

- 10:50-11:20 Modeling the environmental effects of marine aquaculture operations Dr. Jon Chamberlain Department of Fisheries and Oceans, Science Branch, Canada.
- 11:20-11:50 The Environmental Capacity as Management Tool for Aquaculture Activity Dr. Marco Salamanca University of Concepción, Chile.
- 11:50-12:20 Sedimentation Model of Organic Waste From Cage Fish Farms Dr. Martin Hevia Fundación Chile
- 12:20-12:50 Aquaculture and Coastal Zone Management: GIS & Modeling Dr. Jon Grant, Dalhousie University, Canada.
- 12:50-13:10 Discussion and guestions
- 13:10-14:30 Lunch



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Session III. State of Research for aquaculture regulation - Industry and research institutions Chair: Dr. Robin Anderson, Department of Fisheries and Oceans, Canada

- Assessing Cumulative (Far-field) Effects of Aquaculture on Coastal Ecosystems 14:30-15:00 **Dr. Barry Hargrave** Department of Fisheries and Oceans, Science Branch, Canada.
- 15:00-15:30 Sustainable aquaculture: Monitoring of water quality in Norway combining the documentation relevant for EUs Water Directive on pollution and fish welfare control. Dr. Bjørn Olav Rosseland Norwegian University of Life Sciences, UMB.
- 15:30-16:00 Voluntary Initiatives in the Salmon Industry in Chile: Role and Prospects Mr. Adolfo Alvial Technological Institute of Salmon (INTESAL), Chile.
- 16:00-16:30 Coffee Break
- 16:30-17:00 Discussion and questions
- 17:00-17:30 Final remarks

Dr. Wendy Watson-Wright

Assistant Deputy Minister-Science, Fisheries and Oceans Canada.

Mr. Ricardo Norambuena

Head of Aquaculture Division, Undersecretariat for Fisheries, Chile.



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INTERNATIONAL AQUACULTURE WORKSHOP **Environmental and Social Responsibility for Sustainable Aquaculture**

Tuesday March 21, 2006

Session IV. Policies, Experiences and Challenges

Chair: Mr. Ricardo Norambuena, Undersecretariat for Fisheries, Chile.

- Welcome 09:00-09:05 Mr. Aníbal Vial Director Santo Tomas University, Chile.
- 09:05-09:20 Canada-Chile Collaborative Agreement on Environmental Effects Management of Aquaculture **Dr. Alex Brown** Aquaculture Specialist, Chile.
- 09:20-09:40 The Aquaculture in Chile: Interests, concerns and challenges Mr. Carlos Hernandez Undersecretary for Fisheries, Chile.
- 09:40-10:00 Fisheries and Oceans Canada (DFO): Science and Sustainable Aquaculture Dr. Wendy Watson-Wright Assistant Deputy Minister-Science, Fisheries and Oceans Canada.
- 10:00-10:20 Relevant Aspects of Aquaculture in Peru Mr. David Lemor Minister of Production, Peru.
- 10:20-10:40 Aquaculture Development in Indonesia Mr. Ketut Sugama Ministry of Marine Affairs and Fisheries, Republic of Indonesia.



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- Internationalization of Aquaculture Education 10:40-10:50 Mr. Odd-Ivar Lekang University of Life Sciences, UMB, Norway.
- 10:50-11:00 MoU Ceremony UST (Chile) UMB (Norway)
- 11:00-11:20 Coffee Break

Session V. Public and Private Responsibilities for the Aquaculture Management Chair: Dr. Jon Chamberlain, Department of Fisheries and Oceans Canada.

- 11:40-12:00 Chilean Scallops Cultures Took The First Steps Toward Social Responsibility **Business** Mrs. Ivonne Etchepare General Manager Oysters and Scallops Growers Association, Chile.
- The Education as the Basis of Salmon Farming Development in Chile 12:00-12:20 Mr. Rodrigo Infante General Manager SalmonChile
- 12:20-12:40 Corporate Social Responsibility in the Aquaculture Industry: Summing up the Theory Mr. Ricardo Bosshard PriceWaterHouse Coopers, Chile.
- 12:40-13:10 Discussion and questions
- 13:10-14:30 Lunch

Session V Cont. Public and Private Responsibilities for the Aquaculture Management Chair: Mr. Ricardo Norambuena, Undersecretariat for Fisheries, Chile.

- 14:30-14:50 Integrated Oceans Management for Sustainable Aquaculture Ms. Carol Ann Rose Department of Fisheries and Oceans Canada.
- 14:50-15:10 Environmental Regulations in Chile Ms. Jessica Fuentes, Head Legal Division, Undersecretariat for Fisheries, Chile.



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- 15:10-15:30 Dialoguing Towards a Sustainable Salmon Farming Industry **Ms. Katherine Bostick** Aquaculture Program Officer, World Wildlife Fund.
- 15:30-15:50 Coffee Break
- 15:50-16:10 Environmental and Social Responsibility for Sustainable Aquaculture: the British Columbia Experience **Dr. Al Castledine** Province of British Columbia, Canada.
- Indicators for Sustainable Aquaculture: Toward a Common Framework 16:10-16:30 Dr. Raul O'Ryan University of Chile.
- Aquaculture and Sustainable Development 16:30-16:50 Mr. Francisco Pereira **FAO Regional Fisheries Officer**
- 16:50-17:10 Discussion and questions
- 17:10-17:30 Final remarks and conclusion Dr. Wendy Watson-Wright Assistant Deputy Minister-Science, Fisheries and Oceans Canada.

Mr. Ricardo Norambuena

Head of Aquaculture Division, Undersecretariat for Fisheries, Chile.



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