

SFU



FREE WORKSHOP
Thursday,
November 29, 2007
8 am–6:00 pm

Morris J. Wosk Centre
for Dialogue, Vancouver
Campus, Simon Fraser
University, 580 West
Hastings, Asia Pacific Hall,
Vancouver, BC

For more information,
email cs-science@sfu.ca or
telephone 778.782.5466.

Hosted by Continuing
Studies in Science and the
Centre for Coastal Studies
at Simon Fraser University

Sponsored by the
Consortium for Genomic
Research on all Salmonids
Project (cGRASP)
and the Linking Science
with Local Knowledge
Working Group of the
Ocean Management
Research Network
(OMRN)

Encouraging Innovative Solutions for Sustainable Salmon Aquaculture

It is well recognized that globally we will need aquaculture in the future as the pressures increase to provide food for the burgeoning world population, and particularly fish protein. Wild fisheries, as currently exploited, will not be able to meet these needs.

The purpose of this dialogue-based workshop is to examine and suggest innovative ways for the British Columbia salmon aquaculture industry to move forward in a sustainable fashion, with minimal impacts on the existing wild salmon stocks and coastal ecosystems.

The British Columbia Legislative Special Committee on Sustainable Aquaculture addressed some of the concerns raised throughout British Columbia with respect to the development of the salmon aquaculture industry and made a number of recommendations in their final report (May 2007, www.leg.bc.ca/CMT/38thparl/session-3/aquaculture/index.htm).

This workshop will focus on recommendations for closed containment, best practices for net cage farming, pest management, fallowing and siting. In addition, participants will examine the concept of coastal zoning and how this might be used to reduce the stress on wild stocks and coastal ecosystems.



Rules of Engagement

Purpose

These guidelines are designed to:

- create opportunities to maximize participation
- foster a safe place for dialogue
- enable vigorous differences to surface without disrespecting anyone
- promote an open and full exchange of information/ ideas
- generate an environment of shared learning

Context for Dialogue

All sessions involve three parts:

1. 15-minute case study presentations
2. 5-minute respondents to the presentations
3. Open-mic dialogue

All proceedings will be recorded to support the post-workshop report.

Guidelines

- Presenters/responders respect time by keeping to their allotted timeframe.
- Participants respect time through concise comments and questions.
- Participants identify themselves when speaking.
- Participants listen and speak with respect.
- Participants try to find a good way to say difficult things.
- Let there be humour, where we explore tough issues together, in a good way, with a spirit of learning, creating a healthy and constructive learning environment.
- If there are any questions or concerns please bring them to facilitators.

Agenda

■ 8:00 am | **Registration Asia Pacific Hall**
Coffee and light refreshment

■ 8:30 am | **Welcome**
Comments from the facilitator

■ 9:00 am
Alternatives to net cages—addressing the feasibility of closed containment salmon aquaculture

Questions for discussion:

- *What are the conditions for success and failure? For example, scale, economics, eco-labelling, environmental impacts and energy cost.*
- *Can closed containment systems be scaled up to large production rates?*

An update on the Middle Bay closed containment pilot project

Richard Buchanan, President, AgriMarine Ltd,
Campbell River, BC

Life Cycle assessment of closed containment salmon aquaculture

Peter Tyedmers, Assistant Professor, Dalhousie University, Nova Scotia

Farming rainbow trout and sockeye salmon in fresh water on land

Larry Albright, Professor Emeritus, Biosciences, Simon Fraser University and Director, Freshwater Aquaculture Association of BC

■ 10:00 am | **Inner circle dialogue**

Representatives from First Nations, NGOs, industry, academia and government will form the inner circle dialogue and address the following question:

Based on the presentations, what can we now conclude about the feasibility of closed-containment, including the question of scale?

■ 10:20 am | **General dialogue**

■ 10:45 am | **Break**

■ 11:00 am

Net-cage salmon aquaculture—examples of best practices

Questions for discussion

- *Can we farm salmon and net cages in such a way that protects wild stocks and the adjacent ecosystems?*
- *What are the general principles of best practices that can be applied universally to salmon farming in BC?*
- *How can employment of best practices be economically sound and transparent?*

Case Study: The approach taken by Loch Duart Sustainable Salmon Company, Scotland

Nick Joy, Managing Director, Loch Duart Sustainable Salmon Company, Scotland

Case Study: The approach taken by Creative Salmon Company, Tofino, BC

Representative, Creative Salmon Company, Tofino, BC (or alternate)

■ 11:30 am | **Inner circle**

Representatives from First Nations, NGOs, industry, academia and government will form the inner circle dialogue and address the following question:

Based on the presentations, how should we proceed with salmon aquaculture in BC?

■ 12:00 noon | **Open dialogue**

■ 12:30 pm | **Lunch in the ICBC Concourse**

■ 1:30 pm | **Pest management**

Question for discussion

What are the implications of and effective alternatives to the use of chemo-therapeutants on salmon farms?

Using an integrated pest management approach for sealice control

Myron Roth, Aquaculture Analyst, Province of British Columbia

What can genomics offer?

Ben Koop, Canada Research Chair, Director, Centre for Biomedical Research, University of Victoria and co-investigator of cGRASP

New technology for pest management

Sunil Kadri, Director, Aquaculture Innovation, Glasgow, Scotland

■ 2:15 pm | **Inner circle dialogue**

Representatives from First Nations, NGOs, industry, academia and government will form the inner circle dialogue and address the following question:

What does this suggest about best practices for pest management for salmon aquaculture in BC?

■ 2:35 pm | **General dialogue**

■ 3:00 pm | **Break**

■ 3:15 pm | **Coastal planning for salmon farms**

Questions for discussion

- *What lessons can British Columbia learn from coastal planning processes in Europe?*
- *Which is most appropriate for BC, closed containment or net cages?*
- *What are the challenges and solutions for developing and implementing a coastal plan?*
- *What should such a plan need to consider?*

Coastal planning in Iceland

Sigurdur Gudjonsson, Director, Institute of Freshwater Fisheries, Keflavic, Iceland

Coastal plan for the Two Brooms Area in Wester Ross, Scotland

Colin Wishart, Principal Officer (Coastal), Highland Council, Scotland

Implementing coastal plans in Norway:

The example of Akvavis, Hardangerfjord

Inge Dorskeland, Hordaland County Council, Norway

■ 4:00 pm | **Inner circle**

Representatives from First Nations, NGOs, industry, academia and government will form the inner circle dialogue and address the following question:

What is the vision for salmon aquaculture on the British Columbian coast?

■ 4:20 pm | **General dialogue**

Can we agree on a vision?

■ 5:00 pm | **Wrap up**

How do we take the vision forward?



Workshop Steering Committee

Patricia Gallagher, Director Centre for Coastal Studies, Program Director, Continuing Studies in Science, and Adjunct Professor, Biological Sciences, Simon Fraser University

John Reynolds, Tom Buell Leadership Chair in Salmon Conservation, Simon Fraser University

Willie Davidson, Professor, Molecular Biology and Biochemistry, Simon Fraser University and Co-investigator, Consortium for Genomic Research on All Salmonids Project

REGISTRATION FORM

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There is no fee to attend this workshop, but seating is extremely limited and pre-registration is required.

To reserve your seat, please return this form by fax to 778-782-3851, email the following information to lauriew@sfu.ca or telephone 778-782-5466.

Confirmation of your registration will be e-mailed to you.

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