







**DRAFT WORKSHOP PROGRAM** Day 1: Wednesday, October 1 4

### An International Summit on Fish Farming in Land-Based Closed-Containment Systems

**BREAKFAST (DINING HALL, 6:30 – 7:45)** 

#### Welcome and Keynote (8:00 – 9:30)

#### 8:00 - 8:15 Welcome and Introductory Remarks

Jay Slack, National Conservation Training Center,

Steve Summerfelt, The Conservation Fund's Freshwater Institute (TCFFI),

Jon Carr, Atlantic Salmon Federation,

Maureen Geesey, Gordon and Betty Moore Foundation, and

Catherine Emrick, Tides Canada

#### 8:15 - 9:15 Keynote Presentation: The Value Proposition of Land-Based Closed-Containment

**Production** 

Eric Hobson, Kuterra Limited Partnership, Canada

Gary Robinson, GRV Inc, Canada, and Guy Dean, Albion Fisheries, Canada

#### 9:15 - 10:00 Kuterra Land Based Atlantic Salmon RAS Project – Final Milestone Report

Eric Hobson and Garry Ulstrom, Kuterra Limited Partnership, Canada

#### BREAK (10:00- 10:30)

#### CONSUMER TRENDS, ORGANIC STANDARDS, MARKETING RAS PRODUCTS (10:30 – 12:00)

10:30 – 11:00	An Overview of USDA's Proposed Organic Standards for Fish
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George Lockwood, Chair, USDA Aquaculture Working Group, USA

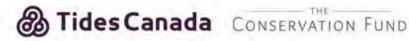
11:00 - 11:30 Meeting Organic Certification for Fish - Contrasting EU, Canada, and Potential

**USDA Organic Standards** 

Melissa Rommens, Sustain Aqua, Canada

11:30 - 12:00 Meeting Organic Standards for Produce in Aquaponic Systems

Huy Tran, USA









**DRAFT WORKSHOP PROGRAM** Day 1 Cont'd.

**LUNCH (DINING HALL, 12:00 – 1:15)** 

#### **CONTINUED: MARKETING RAS PRODUCTS (1:15 – 2:15)**

1:15 - 1:45 SeaChoice/Seafood Watch Assessment for Fish Raised in Recirculating

**Aquaculture Systems** 

Bill Wareham, David Suzuki Foundation, Canada

1:45 - 2:15 **Optimizing Logistics and Marketing for RAS Producers** 

Caesar Layton, Cultivate Ventures, USA

#### **CLOSED CONTAINMENT PROJECT UPDATES (2:15 – 4:30)**

**Expanding Salmon Smolt and Post-Smolt Production in RAS** 2:15 - 2:45

Frode Mathisen, Greig Seafood Ltd, Norway

### **BREAK (2:45 - 3:15)**

3:15 - 3:45 Sustainable Blue's Land Based Atlantic Salmon RAS Project – Salmon

**Performance Update and Expansion Plans** 

Jeremy Lee, Sustainable Blue, Canada

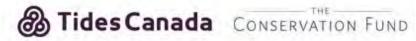
3:45 - 4:15 Update on two floating bag closed-containment projects in Norway

Trond Rusten, Sintef, Norway

4:15 - 4:30 Atlantic Sapphire's Land Based Atlantic Salmon RAS Projects in Denmark and USA

Johan E Andreassen, Atlantic Sapphire, USA

DINNER (DINING HALL, 5:30 – 7:00 ) and BONFIRE with S'mores (ADJACENT TO I-WEST, 7:00 – 9:00)









**DRAFT** WORKSHOP PROGRAM Day 2: Thursday, October 15

#### **BREAKFAST (DINING HALL, 6:30 - 7:45)**

**RESEARCH UPDATES (8:00 – 12:00)** 

8:00 – 8:45	White Paper: A Review of Factors Influencing Maturation of Atlantic Salmon In RAS Environments Christopher Good and John Davidson, TCFFI, USA
8:45 – 9:30	NOFIMA Research to Optimize RAS for Atlantic Salmon Post-Smolt Production Jelena Kolarvic, NOFIMA, Norway

**UBC InSEAS Research Program to Determine Optimal Salinity Conditions for** 

**Atlantic and Coho Salmon Growth in RAS** 

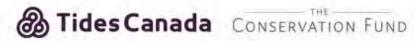
Jeff Richards, UBC, Canada

## **BREAK (10:00 - 10:15)**

9:30 - 10:00

10:15 – 10:45	Atlantic Salmon Trials Testing NO3-N Toxicity, Alternate Feeds, and Growout in Freshwater Closed-Containment Systems at the Conservation Fund Freshwater Institute  John Davidson and Steven Summerfelt, TCFFI, USA
10:45 – 11:15	Highlights of Denitrification Research and Commercial Applications in European RAS Victor Bierbooms, VIQON Water Solutions, The Netherlands
11:15 – 11:45	Assessment of Genetic X Environmental Interactions on Growth Performance of Five Lines of Rainbow Trout Raised In Unique Environments Beth Cleveland, USDA ARS, USA
11:45 – 12:15	Minimizing Microbial Contamination Risks in Produce from Aquaponic Systems Sarah Taber, Aquaponics Association, USA

**LUNCH (DINING HALL, 12:15 – 1:30)** 









**DRAFT** WORKSHOP PROGRAM Day 2 Cont'd.

#### LESSONS LEARNED WHILE ENGINEERING AND BUILDING COMMERCIAL RAS (1:30 -2:30)

1:30 – 2:00	Salmon Transfer: Options for Moving Fish with Air or Water Cathal Dineen (Kuterra, Canada) and Steven Summerfelt (TCFFI, USA)
2:00 – 2:30	<b>Full-Scale CO2 Stripping Technologies in a Large Commercial RAS</b> KC Hosler, PRAqua/Pentair, Canada
2:30 – 3:00	Global Trends in Commercial Salmonid RAS Bjarne Hald Olsen, Billund Aquaculture, Billund, Denmark

#### **BREAK (3:00 - 3:15)**

#### **DISCUSSION ON OPPORTUNITIES FOR INNOVATION (3:15 –4:30)**

3:15 – 3:45	Challenging the Status Quo – Opportunities for Innovation

Andrew Wright, Tides Canada, Canada

3:45 - 4:30 **Innovation Panel** 

**TBA** 

4:30 - 5:00 Wrap-Up

Eric Patel, Tides Canada, Canada

DINNER (DINING HALL, 5:30 – 7:00) and SOCIAL (Roosevelt Room, 7:00 – 9:00)