

# Aquaculture Innovation Workshop

**DRAFT WORKSHOP PROGRAM**

Day 1: Wednesday, October 14

*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**

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

# Aquaculture Innovation Workshop

**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)

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

# Aquaculture Innovation Workshop

**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
- 9:30 – 10:00**      **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)**

- 10:15 – 10:45**      **Atlantic Salmon Trials Testing NO<sub>3</sub>-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)**

# Aquaculture Innovation Workshop

**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**      **Full-Scale CO<sub>2</sub> Stripping Technologies in a Large Commercial RAS**  
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)**