



Aquaculture Canada^{OM} 2013

Dear AAC Members;

**Aquaculture
Canada^{OM} 2013**



June 2nd-5th 2013, the AAC will hold its annual meeting Aquaculture Canada^{OM} in Guelph (ON). AC13 “Farming our Waters – Agrifood Innovations” is nearly upon us so please make sure you are registered. You can still register on-line at www.aquacultureassociation.ca After May 24th, 2013 you must to register on site.

If you have already registered but have not booked your hotel room, please do so. The discounted group rate will not be available after May 1, 2013. Reserve by calling the Reservations Department at 1-800-483-7812 and provide the group code AQU060213_001.

The AC13 meeting sessions are now finalized and will include:

KEYNOTE SPEAKER:

Dr. Doris Soto, FAO Senior Fishery Resource Officer (Resource Management)

PLENARY SPEAKERS:

John Oliver, President of Maple Leaf Bio-Concepts

Melanie Siggs, Director, Seafood Choices Alliance

Session Topics:

- Aquaculture Genetics I: Genotypes to Phenotypes
- Aquaculture Genetics II: Phenotypes to Genotypes
- Innovation Technologies
- Freshwater IMTA / Aquaponics
- Aboriginal Aquaculture
- Modernizing the Feed Regulations
- Marine IMTA
- Food Security and Animal Welfare
- Innovations in Shellfish Aquaculture
- Health Management in Saltwater Species
- Waste Matters - Effluent Treatment Technologies
- Principles of Nutrition and Feed Formulation
- Freshwater Summit
- Farmed Seafood Sustainability and Market Access: Certification and Organics
- Aquaculture for Food Security in the Developing World
- Health Management for Freshwater Species
- Multidisciplinary Interactions

We are also arranging several opportunities for you to network, relax and enjoy the company of your peers. Social events will include:

- President’s Hospitality Suite – this informal event will mark the start of the conference Sunday evening at 7:00 p.m., June 2, 2013
- Dr. Joe Brown BBQ and Silent Auction 6:30 p.m., Monday, June 3, 2013 -

Proceeds to go to the Student Endowment Fund. This will be held at the Brass Taps Bar on the campus of the University of Guelph and will feature games, silent auction, good food and entertainment.

- AC13 Gala Dinner Tuesday, June 4, 2013, 7:30 p.m.– the final event of the conference will include a fabulous meal, a hilarious comedian and the presentation of the AAC Research Award of Excellence.

I look forward to seeing you in Guelph and thank the program Committee co-chairs, Dr. Grant Vandenberg and Rich Moccia for their tireless efforts to produce an excellent program. Thank you as well to all the session chairs and committee members for their input and hard work.

See you all in Guelph!

Gail Ryan, Executive Director

2013 Board Election

This year we have employed a new process for our Board of Director elections. We will announce the new Board at our Annual General Meeting on June 4th, 2013 in the Royal City Ballroom. I would appreciate any feedback you may have on the on-line voting process. We hope you found this option to be more convenient to use and that the process was seamless.

Ambassadors are at Work Again

The AAC Ambassadors Team are currently working to develop new ideas and programs to enhance the value that AAC delivers to members. You may be contacted in the next little while by one of our Ambassadors. Please take some time to talk to our Ambassadors – your input will help frame future membership benefits. They will also be happy to hear any feedback you may have on the AAC in general.

In this Issue:

From the Executive Director	page 1
AAC News.....	page 2
30 th Anniversary Bulletin.....	page 3
Member Recognition.....	page 4
Member Profile.....	page 6



Aquaculture R&D Review

The fifth edition of the Aquaculture R&D Review is ready! As with previous reviews, this review will include all Canadian aquaculture-related research carried out in, or in association with, universities, government labs, and other organizations. The printed version of the R&D Review will be available early June and both the French and English electronic publications will be available on the AAC website in May.

Last Call for AC13 Sponsors

AC13 is the country's largest aquaculture sector gathering, which provides Canada's most comprehensive agenda of aquaculture science and technology. Participants from across the country in many different roles within the sector will attend the event, which will provide a valuable and unique opportunity to profile your organization through AC13 sponsorship.

Please contact me for information and to confirm your sponsorship at gail.ryan@bellaliant.net

**Attention ALL AAC Members,
Past and Present Board and Committee Members**

The Aquaculture Association of Canada was incorporated in 1984, making 2014 its **30th anniversary**. To celebrate such an auspicious occasion, the AAC will publish a Special Bulletin to highlight the diversity and dedication of its members and more memorable moments in AAC's history. Although it would be nice to highlight all of our members we will endeavour to represent all categories of membership over the years including students, individuals and organizations or companies.

We want you!

You can contribute in three different ways:

1. Profile of yourself or your organization (please include photos)
 - A mock profile has been created and is posted on the website (<http://www.aquacultureassociation.ca/>).
 - Maximum 2 page/ profile including pictures.
2. Provide a description of memorable moments or events - may include others not just you
 - Send us your exhilarating experiences, funny stories, key achievements, rambling reminiscences, oddball opinions, past directions, weird and wonderful impressions.
3. Submit photos of past AAC or related events

Deadline for submission: September 30, 2013

Distribution: Publication will be available for delegates at the AC14 meeting

Contacts: Linda Hiemstra (250-751-4862) and Joy Wade (250-468-1585) will be tackling this project. We have created an email address to make it easier to organize submissions: aacbulletin30years@gmail.com

**There is limited space in the special 30 year anniversary
publication.**

Send your information and ensure your spot in the limelight now!

Member Recognition

The AAC has been built from its inception by our members who have made valuable contributions and supported the organization.

We would like to acknowledge those members that have supported us long term and thank them sincerely for their support!

The following have been members for more than 15 years:

North American Tilapia Inc., Gary Chapman
Salmon Research Agency of Ireland Inc., Deirdre Cotter
Cold Water Fisheries Inc., Robert Devine
University of Waterloo, Dr. Brian Dixon
Manatee Holdings Ltd., Eric Gant
John Holder
Inventive Marine Products Ltd., Jamie Judge
Gyeongsang National University, S.J. Kang
National Research Council (NRC), Joan Kean-Howie, PhD
Time Motel, In-Bae Kim
Valox Ltd, Bill Powers
Donald Rainnie
Myron Roth, Marine Institute
Dr. C. R. Barrett Library, MUN
Erasmus - Antiquariaat En Boekhandel BV
St-Laurent Gulf Products Ltd, Julien Albert
Island Scallops Ltd., Barb Bunting
Navigable Waters Protection Division, Marine Safety
Transport Canada, Melinda Donovan
NIWA – Library, Megan Gee
Fiskeridirektoratet Directorate of Fisheries
Cultures Aquaponiques (M.L.) Inc., Marc Laberge
EPAQ Daniel Larochelle
MacDonald Environmental Sciences Ltd., Don MacDonald
Rainbow Net & Rigging Ltd, Cecil Mitchell
Island Scallops Ltd, Robert Saunders
Alistair Struthers
Service Veterinaire Pour Piscicultures, F. Carl Uhland,
Nova Scotia Agricultural College, Derek Anderson
University of Guelph, Michael Burke,
Institute for Marine Biosciences
National Research Council (NRC), James Craigie
Société de recherche et de développement en aquaculture
continentale (SORDAC) inc, Stéphanie Houle
Canadian Centre for Fisheries Innovation, Sean MacNeill
Janice Oakes
Accurate Harvesting & Research Ltd., Ken Ridgway
Canadian Aquaculture Industry Association, CAIA,
Ruth Salmon
John Bonardelli, Atlantic Veterinary College,
Department of Biomedical Sciences
University of Prince Edward Island, John Burka

Coastal Zones Research Institute, André Dumas
Memorial University of Newfoundland, Robert Hooper
Mount Allison University, Matthew K. Litvak
Memorial University of Newfoundland – CASD,
Heather Manuel
Debbie Martin-Robichaud
Norwegian School of Veterinary Science, Paul Midtlyng
MAPAQ, Paul Morin
Dover Fish Hatchery, Leon Moyaert
Chris Oikawa
Panagiotis (Panos) Pantazis
Fisheries & Oceans Canada (DFO), Shawn Robinson
Fisheries & Aquaculture NL (DFA), Shawn Robinson
National Research Council (NRC), Sean M. Tibbetts
Centre for Shellfish Research, Don Tillapaugh
Intrinsic Environmental Sciences Inc., Rob Willis
Atlantech Engineering & Associates Inc., Doug Wright
Western Carolina University - Hunter Library Fisheries &
Oceans Canada (DFO), Don MacKinlay
Canadian Integrated Multi-Trophic Aquaculture Network,
University of New Brunswick (Saint John), Thierry Chopin
Fisheries & Oceans Canada (DFO), Leslie-Anne Davidson
Finfish Ltd., Susan Hillcoat, J.B. Hillcoat
Maurice Lamontagne Institute Library
Fisheries & Oceans Canada (DFO), Pierre Lauzier
Fisheries & Oceans Canada (DFO), Fred Page

The following have been members for more than 10 years:

Acadia University, Trevor Avery
Fisheries & Oceans Canada, Tammy Blair
New Brunswick Community College, Rod Carney
Point Four Systems Inc., Trudy Dowla
Northwest Atlantic Fisheries Centre, Chris Hendry
Fisheries & Aquaculture NL (DFA), Leonard House
Fisheries & Oceans Canada (DFO), Geoff Perry
Conseil national de recherches Canada (CNRC),
Sylvain Saint-Gelais
Iowa State University, Robert Summerfelt
Institut des Sciences de la mer-uqar, Rejean Tremblay
Fisheries & Aquaculture NL (DFA), Mike Warren
University of Connecticut, Charles Yarish
SUNY Agricultural Tech College - Van Wagenen Library
Underwater Harvester's Association, Bruce Clapp
Aquamatrix Research Ltd, Stephen Cross
Fisheries & Oceans Canada (DFO), Sharon Ford
Unique Sea Farms Ltd., Tom Harper
Jennifer Lee
Agriculture, Aquaculture and Fisheries NB, Kim Lipsett
Nova Scotia Agricultural College - MacRae Library
Sablefish Canada Inc., Bruce Morton
Atlantic Canada Fish Farmers Association, Pamela Parker
Spencer Russell

David Scarratt & Associates, David Scarratt
 Wild West Steelhead
 Yellow Island Aquaculture Ltd
 Vancouver Island University, Duane Barker
 University of New Brunswick (Fredericton),
 Michel Couturier
 Fisheries & Oceans Canada (DFO), Eric Gilbert
 Institut du recherche sur les zones cotieres,
 Chantal Gionet
 Atlantic Canada Opportunities Agency (ACOA),
 Malcolm MacBeath
 Fisheries & Oceans Canada (DFO), Vicky Merritt Carr
 Fisheries & Oceans Canada (DFO), Steve Neil
 Bibliothèque IFREMER
 TRI-GEN Fish Improvement Ltd., Bruce Swift
 Merinov, Eric Tamigneaux
 Mikmaq Confederacy of PEI, Randall Angus Memorial
 University of Newfoundland – JBARB, Danny Boyce
 Admiral Fish Farms Ltd, Glen Brown, Vesna Brown
 Nova Scotia Agricultural College, Jim Duston
 Go Deep International Inc., Kent Ferguson
 NS Dept. Fisheries and Aquaculture, Marshall Giles
 Fisheries & Oceans Canada, David McCallum
 SR & ED Program - CCRA
 Cosesco Limited, Mel Steffens
 National Institute of Water & Atmospheric Research,
 Jane Symonds
 Cedar Crest Trout Farms, Jim Taylor
 University of Prince Edward Island, Jillian Westcott
 University of Prince Edward Island, Garth Arsenaault
 ISMER-UQAR, Lise Chevarie
 University of Rhode Island, Barry A. Costa-Pierce
 C03 Consulting, Tim DeJager
 Merinov, Laurent Girault, Renee-Marie Grignon-Boutet
 Smart Farm AS, Alise Karlsen
 Fisheries & Oceans Canada (DFO), Stephen Lanteigne
 Biodome de Montréal, Nathalie R. Le Francois
 Fisheries & Oceans Canada (DFO), Steve Leadbeater
 Fisheries & Oceans Canada (DFO), Denise Methe
 Daphne Munroe
 Bord Iascaigh Mhara, Terence O'Carroll
 Société de développement de l'industrie maricole
 (SODIM) inc., Julie Pariseau
 Marine Farming Solutions, Robert Pooley
 Badger Bay Mussel Farms Ltd., Juan Roberts
 Aquatic Research Institute, Robert Rofen
 St. Anthony Basin Resources Inc., Alicia Shears
 Fisheries & Oceans Canada (DFO), Mary Stephenson
 Sweeney International Management Corp.,
 Robert Sweeney
 Hoskin Scientific Limited, Frank Van der Have
 Grant Vandenberg

Fisheries & Oceans Canada (DFO),
 Benedikte Vercaemer
 Fisheries & Oceans Canada (DFO) – Library
 Association des Conchyliculteurs Professionnels
 du Nouveau-Brunswick
 Nofima AS - Library
 World Fisheries Trust, Joachim Carolsfeld
 École Polytechnique Montréal, Yves Comeau
 Sunderland Marine Mutual Insurance Co. Ltd.,
 Martin Coull
 Lethbridge College, John Derksen
 Fisheries & Oceans Canada (DFO), Nellie Gagné
 Gary Green
 Sjávarútvegsþjónustan ehf., Valdimar Ingi Gunnarsson
 Lorne Horning Chartered Accountant P.C. Inc.,
 Lorne Horning
 Fisheries & Oceans Canada (DFO), John Martell
 Icy Waters Ltd., John Rose
 Université Laval, Department of Animal Sciences,
 Pallab Kumer
 West Coast Fish Culture (Lois Lake) Ltd, Bill Vandevent
 Agriculture, Food & Rural Development AB, Dan Watson
 Riista-Ja Kalatalouden Tutkimus – Tietopalvelu

THANK YOU!

Watermark Production and Editing

Gail Ryan

AAC Board of Directors

President: Céline Audet

President-elect: Shelley King

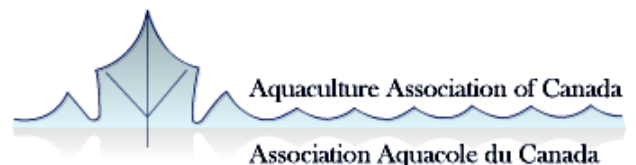
Vice President: Joy Wade

Secretary: Caroline Graham

Treasurer: Kathy Brewer-Dalton

Past President: Tim Jackson

Directors: Matt Liutkus, David Stirling, Gregor Reid, Grant Vandenberg



Member Profile

This is part of a series of profiles of our members. If you would like to learn more or avail of a profile opportunity, please call the AAC office at ph: 506-529-4766 fax: 506-529-4609 e-mail: aac@dfo-mpo.gc.ca



Dr. Les Burridge
St. Andrews Biological Station
St. Andrews, New Brunswick

Dr. Burridge has worked on a number of projects dealing with the biological effects of a broad range of contaminants in freshwater and marine systems. He retires this month after 35 years with DFO.

AAC: Where did you grow up?

Plaster Rock, New Brunswick, a small, one-industry (lumber production) town in the northwest part of the province

AAC: Why did you choose the field of aquaculture research?

I really didn't choose to work in aquaculture. In 1979 I worked for a day or two on the Lord's Cove salmon site with Dick Saunders and Gene Henderson. My early career was spent working with a group of chemists and toxicologists who were working on questions associated with biological effects of pesticides used in forestry and agriculture. We began studying the potential effects of aquaculture-related chemicals on local species such as lobsters. Those targeted questions led to us establishing

an aquaculture-related ecotoxicology program at the St Andrews Biological Station.

AAC: You have collaborated with some talented and influential people. Who do you consider as a mentor?

Two scientists, Dr Vlado Zitko and Dr Kats Haya. They showed me what good science looks like then tried to teach me how to do it.

AAC: What is your vision for sustainable aquaculture in Canada?

Ah - the sustainability question! I see aquaculture operating on a smaller scale with well-separated sites and multiple species on each site. Salmon aquaculture may also become land-based. I see that as a step towards environmental sustainability and social acceptance. The business folks would have to decide if that is economically sustainable.

AAC: Where do you feel the most work is yet to be done?

I come at these questions from an environmental science perspective so I see the need to answer a lot of "interaction" and "so what" questions. Are there impacts of aquaculture activity? Are these impacts beneficial, neutral or harmful? Are they significant? And the big question: Does aquaculture activity contribute to cumulative effects in the bays, estuaries and lakes where the industry operates? If yes, how and to what extent?

AAC: What do you see as the number one myth about aquaculture?

That there are simple answers to complex questions. Aquaculture, at least salmon aquaculture, operates in the open ocean on both coasts. In my opinion it is unreasonable to expect that there are one-size fits all approaches for regulating this industry.

AAC: Why did you become a member of AAC?

I've worked for years with some of the founders of the AAC and when I took on managerial responsibility for a group of aquaculture

scientists, I decided becoming a member of AAC would be beneficial.

AAC: Do you think we can learn much in Canada from successful international jurisdictions? If so, where in particular?

Yes. With respect to Salmon aquaculture; in Scotland and Norway detailed information regarding on-site activity is publicly available. Information on the application of drugs and pesticides is easily obtained thereby increasing public confidence in how salmon aquaculture is practiced and eliminating a lot of suspicion and speculation.

AAC: What advice do you have for students hoping to enter the research/aquaculture field?

Do not enter this, or any other field, with preconceptions. Be balanced in your approach and above all be ready and willing to discuss what your results mean.

AAC: What do you see as your most notable professional accomplishments?

Recently Dr Fred Page and I have led a skilled team of professionals who have managed to marry the effects-type work with physical oceanography to provide predictions of potential areas of impact of sea lice chemicals. This work is cutting edge, it's been productive, well-received by the scientific community, is extremely relevant and it's been fun to do! A number of years ago my work on anti-sea lice pesticides was criticized by the salmon aquaculture industry and by the NGO community at the same time. Both groups felt we were biased in our approach and interpretation of data. It was then that we knew we were doing things well.

AAC: What is your plan for retirement? Will you continue to work in the sector?

Retirement will involve time spent on the golf course, on the road and with grandchildren. I will likely remain involved with science in some capacity, possibly doing some consulting.

AAC: What is your favourite seafood dish?

Scallops - any way, anytime.

AAC: What is the last book you read for pleasure?

Winter of the World by Ken Follett. A good book.

AAC: What was your last "Aha! Moment"?

May of 2012 when I realised DFO wasn't joking when they said they were eliminating all contaminants research including my program. Although, as I recall, I didn't say Aha!

AAC: What would you be doing if not a research scientist?

That's a tough call, maybe teaching high school.

AAC: Where was your last holiday?

Calgary, visiting family

AAC: Dog or cat?

One of each. I prefer the dog, she thinks I'm worth something.

AAC: What do you see as your most notable personal accomplishments?

I have a great family and many friends. I did a PhD in mid-career which was very rewarding. I'm still active in a couple of sports and I've run 5 half marathons. How about Karaoke at the Nanaimo AAC meeting?

AAC: What will you miss most about working at DFO?

The people – no question. The St Andrews Biological Station is a small place. Despite its small size we are blessed with a unique combination of expertise including chemistry, physiology and oceanography that has allowed us to do some very interesting and relevant work. That work is important but not as important as working with people who care about each other. I've been fortunate to have the opportunity to be part of this team.