



Watermark

NEWS FROM THE AQUACULTURE ASSOCIATION OF CANADA

Issue no. 20080101
January 2008

LINKS OF INTEREST

Newfoundland
Aquaculture Industry
Association



www.naia.ca

International AquaFeed
Information Portal



www.aquafeed.co.uk

Center for Aquaculture
& Environmental
Research



 Fisheries and Oceans
Canada

Pêches et Océans
Canada

www-sci.pac.dfo-mpo.gc.ca/sci/facilities/westvan_e.htm

In This Issue

- Industry Photo
- Aquaculture Canada^{OM} 2007 Student Award Winners
- Election Candidates
- AAC Book Review
- Nominations for Lifetime Achievement
- News on the Web
- Upcoming Events
- Memories of Aquaculture Canada^{OM} 2007
- Aquaculture Canada^{OM} 2007: The Debrief
- AAC Sustaining Members
- Your Opinion
- Apply for 2008 Student Awards
- Donors to the Student Endowment Fund
- Double Billing! Aquaculture Canada^{OM} 2008 and Aquafair 2008

Industry Photo

Rusty Smith,
Production
Manager at
Kyuquot
SEAfoods Ltd.
(site of Pacific
SEA-Lab)

Do you have a good photograph of 'Aquaculturists in action'? Tired of seaweed photos? Email us your photo and we'll post it in the Watermark.





www.aboriginalaquaculture.com

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Aquaculture Canada 2007 Student Award Winners !

The Aquaculture Association of Canada is pleased and proud to present the winners of the 2007 student awards:

Student Scholarships:

Ian Butts PhD - University of New Brunswick Saint John
Ellen Campbell MSc - University of New Brunswick Saint John
Lisa Robichaud MSc - Université du Québec à Rimouski

Student Travel Awards: (Photo is in upper right of the collage)

Joanne Power – University of New Brunswick Fredericton
Matthew Liutkus – University of New Brunswick Saint John
Michelle Wetton – University of Manitoba
Erin Friesen – University of British Columbia
Guillaume Dagenais – Université Laval

Best Oral Presentation – Aquaculture Canada 2007

Erin Friesen, PhD Candidate, University of British Columbia: “Lowering flesh organic contaminants in farmed Atlantic salmon while concurrently maintaining levels of EPA and DHA”

Distinguished Poster Presentations – Aquaculture Canada 2007

Thomas Ho, MSc Candidate, University of British Columbia: “Feed attractants for juvenile Chinook salmon (*Oncorhynchus tshawytscha*) prepared from hydrolysates of Pacific hake (*Merluccius productus*)”
Kris Osuchowski, MSc Candidate, University of Guelph: “The Role of Temperature and Organic Degradation on the Persistence of Stable Isotopes in Cage Aquaculture Waste”

Election Candidates

The AAC Board of Directors is welcoming suggestions for candidates for the election of AAC directors for 2008-2009. If anyone is *interested in serving as a director for Canada's aquaculture association or has any suggestions for potential candidates*, please e-mail them by January 11, 2008 to: Chris Pearce (AAC Elections Committee chair) at PearceC@pac.dfo-mpo.gc.ca. Thank you

AAC Book Review

Aquaculture Genome Technologies

Blackwell Publishing Ltd.

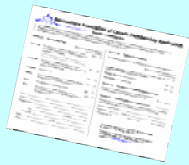


Genome technologies have been developed mainly through human research. While these technologies have been successfully adapted and applied in aquaculture and fisheries science, illustrations of these techniques typically do not use aquatic species. The rapid expansion of aquatic genomic research has now warranted a detailing of genome technologies from the basics of what they are to the details on how they are applied.



AAC Ball Caps, only \$12 each, plus postage. To place an order for this or other AAC/Aquaculture Canada merchandise, please [EMAIL THE AAC](#)

[Download a membership application](#)



Opinion & Information

Droplets

[Email us](#) with your thoughts on anything from this newsletter to your opinion on the state of the industry today.

Compiled and written by Dr. Zhanjiang (John) Liu with 42 additional authors, *Aquaculture Genome Technologies* is a 29 chapter book focussing specifically on 'model species' in the aquatic realm. This book is separated into five parts: 1) DNA marker technologies, 2) genome mapping techniques and marker assisted selection, 3) analysis of genome expression and function, 4) genome sequencing, and 5) discussion of the complexities and unique structure and biology of aquatic organisms.

Aquaculture Genome Technologies is written in a manner that will ensure it is an important part of curriculum in the university classroom, but also an essential reference tool for any researcher in the field. This book provides countless descriptive figures, tables and lists that visually detail the theory behind various techniques, summarize and compile published research, and provide helpful web addresses including freeware statistical analysis programs (e.g., programs used in population genetics).

Aquaculture Genome Technologies is the quintessential What, When, Why and How-to book for aquatic genome research...an important addition to any science classroom, laboratory or office.

By Amber F. Garber (Post Doctoral Fellow with the Huntsman Marine Science Centre and St. Andrews Biological Station Fisheries and Oceans Canada)

Nominations for the Lifetime Achievement Award 2008

This is awarded to someone in recognition of his or her outstanding contribution to the Association and the aquaculture sector in Canada. Any former or current individual AAC member engaged in aquaculture-related activities in Canada is eligible. If someone you know fills these shoes, send a note to Tim DeJager, Chair, Awards Committee at dejagert@co3.ca. See the list of former awardees at: <http://www.aquacultureassociation.ca/about/Lifetime.html>

News on the Web

Lice from fish farms could decimate B.C. salmon
(CTV summary of Krkošek study, December 13, 2007)
ctv.ca/servlet/ArticleNews/story/CTVNews/20071213/salmon_071113/20071213/

BC Salmon Farmers response to study
www.salmonfarmers.org/files/hottopic_12_14_07.htm

CAIA response to study
www.aquaculture.ca

Photographer captures trout's great escape
(Telegraph UK, December 11, 2007. Submitted by Amanda Miekle)
telegraph.co.uk/earth/main.jhtml?xml=/earth/2007/12/11/eatrot111.xml

Upcoming Events

World Aquaculture 2008
Busan, South Korea (May 19-23, 2008)
www.was.org/meetings/WasMeetings.asp

Aquaculture Canada 2008
Saint John, New Brunswick (May 11-14, 2008)
www.aquacultureassociation.ca/ac08/welcome.html

Aquafair 2008
St. Andrews, New Brunswick (May 9-10, 2008)
www.aquafair.ca

Memories of Aquaculture Canada 2007 (Photos by Cyr Couturier, Tammy Blair and Gregor Reid)



Aquaculture Canada^{OM} 2007 : The debrief

Aquaculture Canada^{OM}, the annual meeting of the Aquaculture Association of Canada (AAC), was held this year in Edmonton, Alberta from September 23rd to the 26th and was co-hosted by Alberta Agriculture and Food, the Alberta Aquaculture Association, and the Interprovincial Partnership for Sustainable Freshwater Aquaculture Development. The conference theme this year, **Securing Sustainable Economic Prosperity**, spoke to the need for the Canadian aquaculture industry to maintain or increase financial profitability (economic sustainability) while ensuring environmental integrity (environmental sustainability), and safeguarding public support (social sustainability). They are three keys required to assure the future success of the Canadian aquaculture industry and a number of special sessions and speakers were organized to address these particular topics at Aquaculture Canada^{OM}.

Approximately 220 delegates attended the annual conference and tradeshow, which was the 24th annual meeting of the AAC and the first held in the Canadian Prairies. The province of Alberta – which is in the Canadian interior – is not typically known for its aquaculture production, but there is a burgeoning industry developing in the Prairie provinces. Part of the provincial economic boom, Alberta aquaculture has over 100 commercial producers (most with sophisticated indoor recirculation facilities) realizing CAD \$10 million annually in revenue from 730 tonnes of cultured fish such as trout, tilapia, eel, buffalo fish, and triploid grass carp (2005 Alberta provincial statistics).

This year, Aquaculture Canada^{OM} partnered with the Interprovincial Partnership for Sustainable Freshwater Aquaculture Development to host the Second National Freshwater Symposium (the first being held at Aquaculture Canada^{OM} 2004 in Quebec City, Quebec), which focused on issues that are especially relevant to the Canadian freshwater aquaculture industry. A number of special sessions were organized for the symposium, including: fish nutrition, feeds, and feeding; environmental aspects of freshwater cage farming; diversification of freshwater production; fish health management in freshwater aquaculture; and aquaponics. Other conference sessions included: moving aquaculture outside the box; educating workers and the community; sustainability – beyond the triple bottom line; aquaculture health management; R&D coordination; integrated multi-trophic aquaculture; science and policy development; and alternate species.

The conference keynote speaker was the Honourable A. Brian Peckford, former Premier of the province of Newfoundland and Labrador and currently a consultant to the oil and gas industry in British Columbia. In his talk entitled "*The Challenge to Develop Aquatic Resources Prosperity while Maintaining Social Approval*", Mr. Peckford described how lessons learned from other resource-based industries (such as the oil and gas industry) can be applied to the sustainable development of the aquaculture industry in today's and tomorrow's world. One of Mr. Peckford's key recommendations to the Canadian aquaculture industry was to do a better job at self promotion. He suggested establishing a small group comprised of individuals from science, industry, and public relations that would travel throughout Canada, hitting all the major media outlets, to promote the industry.

This year's conference also included a vibrant tradeshow (with over 25 companies, industry associations, and government/academic departments present) and an eye-opening industry tour. The tour took conference delegates to two local recirculation facilities: Smoky Trout Farm, near the city of Red Deer, which is a cold-water trout producing company and MDM Aqua Farms Ltd. (Rumsey, Alberta), which produces high-quality tilapia in a warm-water recirculation system that makes use of aquaponics to produce a variety of vegetables.

A number of social events were also organized for the conference including the President's Reception, the Joe Brown Barbeque in Support of AAC Students, the Conference Banquet, and the annual AGM Luncheon. The first ever Canadian Aquaculture Idol contest was held during the barbeque and was a huge success! Fantastic entertainment at the banquet was supplied by Edmonton Tourism's Festival City Road Show which was presented by TransAlta and included four diverse acts from the local Edmonton area (a Japanese drumming group, an aerial artist, a jazz group, and a high-energy reggae band).

Next year's Aquaculture Canada^{OM} conference will take place in Saint John, New Brunswick from May 11th to the 14th, 2008. This will be the Association's 25th anniversary meeting and the AAC will be joining

efforts with the New Brunswick Aquaculture Festival 2008, being held May 9th and 10th, to make this the event of the year in Canadian aquaculture. The theme of the conference will be **Growing Quality Seafood through Innovation** and a comprehensive technical, industry-oriented program will be centered around the theme. Special symposia and workshops will highlight achievements and successes by various aquaculture sectors of the Canadian aquaculture industry. A trade show and a full social program will provide ample opportunity for networking and information exchange. For more information, or to be put on the distribution list, contact the Aquaculture Canada^{OM} 2008 Secretariat at: aac@mar.dfo-mpo.gc.ca, www.aquacultureassociation.ca, or 1-506-529-4766.

Chris Pearce
Chair of Aquaculture Canada^{OM} 2007

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AAC Thanks its Sustaining Members:

Skretting	www.skretting.ca
Microtek International Inc.	www.microtek-intl.com
Transport Canada (Atlantic Region)	www.tc.gc.ca
Corey Feed Mills Ltd.	www.corey.ca
PEI Business Development Inc.	www.peibusinessdevelopment.com
Truefoam Limited	www.truefoam.com
Glitnirbank	www.glitnir.is/english/aboutglitnir/global/canada/
Hatfield Consultants Ltd.	www.hatfieldgroup.com
Hoskin Scientific Limited	www.hoskin.ca

We Want Your Opinion !

The AAC is considering a move from paper conference proceedings to electronic proceedings. But we'd like input from our members. What do you think? Give us your preference online!

http://www.surveymonkey.com/s.aspx?sm=H229NRWODspTCqQ35rOxEA_3d_3d

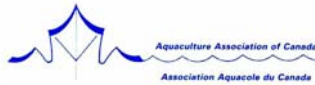
2008 Student Awards Applications

Get your applications ready for the 2008 student awards. Three student scholarships valued at \$1000 each will be offered to the top qualifying student applicants enrolled in Canadian post-secondary institutions in an aquaculture-related program between May 1, 2008 and April 30, 2009. Student travel awards will also be available for those who are presenting at Aquaculture Canada 2008, May 11-14 in Saint John, NB. And don't forget to participate in the Best Oral and Best Poster presentation at the conference. Get your abstracts ready! Details on eligibility and deadlines will be posted on the AAC website in January. For further details contact Tim DeJager, Chair, Awards Committee at dejagert@co3.ca.

Student Endowment Fund Donors

Neil Ross
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Gerry Friars
Santosh Lall
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Dianne Elliott
Jeff Davidson
Jerry Bidgood
Lynn Lush
Alistair Struthers

Thank you!



Announcing / Communiqué *Aquaculture Canada^{OM} 2008* *& / et* *Aquafair 2008*

The 25th Annual Meeting of the Aquaculture Association of Canada, *Aquaculture Canada 2008*, will be held in Saint John, NB, at the Delta Hotel, 11-14 May 2008. On our silver anniversary meeting, we are extremely pleased to be joining efforts with the *Aquafair 2008* being held 9 and 10 May to make this the event of the year in Canadian aquaculture.

The theme is "*Growing Quality Seafood Through Innovation*". You are invited to join us for this national forum on the business, science and technology of the Canadian aquaculture sector.

A comprehensive technical, industry-oriented program will be centered around the theme. Special symposia and workshops will highlight achievements and successes by various sectors of the Canadian aquaculture industry. A trade show and a full social program will provide ample opportunity for networking and information exchange.

Aquaculture Canada 2008 will be **co-hosted** by the Aquaculture Association of Canada, Aquafair 2008, the NB Salmon Growers Association, the Professional Shellfish Growers Association of New Brunswick, and New Brunswick Agriculture and Aquaculture.

For more information or to be put on the distribution list, contact the **Aquaculture Canada 2008** Secretariat at: Joanne Burry, jmburry@nl.rogers.com, 1.709.437.7365, web: www.aquacultureassociation.ca.

La 25^{ième} assemblée annuelle de l'Association Aquacole du Canada, *Aquaculture Canada 2008*, se tiendra à St. Jean, N.-B., à l'hôtel Delta, du 11 au 14 mai, 2008. Nous sommes fiers de combiner nos efforts sur cet anniversaire spécial avec le *festival Aquafair 2008* le 9 et 10 mai pour en faire l'évènement « à ne pas manquer » au Canada en 2008 !

Le thème est "*L'Innovation et la production de fruits de mer de qualité*". Nous vous invitons à vous joindre à ce forum national sur le commerce, la science et la technologie de l'aquaculture canadienne.

Le thème sera abordé par le biais d'un programme technique complet, orienté vers l'industrie aquacole. Des sessions spéciales et des ateliers mettront l'accent sur les réalisations et les succès des différents secteurs de l'industrie aquacole canadienne. De plus, une exposition commerciale ainsi qu'un programme d'activités sociales bien garni vous offriront de multiples occasions pour échanger et créer de nouveaux réseaux.

Aquaculture Canada 2008 sera **parrainé** par l'Association Aquacole du Canada, l'Association des conchyliculteurs professionnels du N.-B., l'Association des producteurs de saumons du N.-B., le festival Aquafair 2008, et le Ministère de l'agriculture et de l'aquaculture du N.-B.

Pour de plus amples informations, ou pour faire parti de la liste de distribution, veuillez contacter le secrétariat de **Aquaculture Canada 2008**, Joanne Burry, au courriel suivant: jmburry@nl.rogers.com, au site web: www.aquacultureassociation.ca et au tél: 1.709.437.7365.

Sessions Being Planned Include:

Integrated Multitrophic Farming
Atlantic Innovation Fund project updates
ACAIRDN Stakeholder Meetings
Atlantic ACRDP Project Updates
Finfish Broodstock Management
Aquatic Biosecurity
Aquatic Animal Welfare
Seaweed Culture
Oyster Culture Across Canada
Alternate Proteins and Oils for Fish Feeds
3 rd International Mussel Forum
Mussel Marketing Workshop
Seafood Certification and Trade Implications
Aquatic Animal Health
Offshore Aquaculture
Getting the Aquaculture Agreement On-the-Ramp
Market Strategies: seafood value round table; regional strategies vs. national; commodity vs. non-commodity; trade barriers; sustainability
Healthy Seafood – The Benefits
Attracting Investment & Associated Risk Programming
Smart Regulations
Knowledge Strategies (anti-farming; seal hunt and impact on markets; science progress - building confidence; fish health issues - when is it no longer an issue?)
Celebrating Communities

Sessions thématiques prévues:

Aquaculture Intégré Multitrophique
Projets FAI
Réunions ACAIRDN
Projets PCRDA Atlantique
Programme de Développement de Géniteurs
Biosécurité Aquatique
Bien-être des Poissons
Culture des Algues
Ostréculture au Canada
Sources de Protéines et d'Huiles pour l'Alimentation des Poissons
3 ^{ième} Forum International des Moules
Atelier de Commercialization des Moules
Certification des Produits Aquatiques et le Commerce
Santé des Animaux Aquatiques
Aquaculture en Mer Ouverte
Entente de l'Aquaculture
Stratégies de Commercialization: Qu'est-ce qu'il y a de Bénéfique, Approches Régionaux vs. Nationaux, Barrières au Commerce, Durabilité
Les Bénéfices de la Consommation des Fruits de Mer
L'Investissement en Aquaculture et la Programmation des Risques
Réglementations
Les Stratégies de Connaissances
Célébrons nos communautés