



NSERC Canadian Integrated  
Multi-Trophic Aquaculture Network

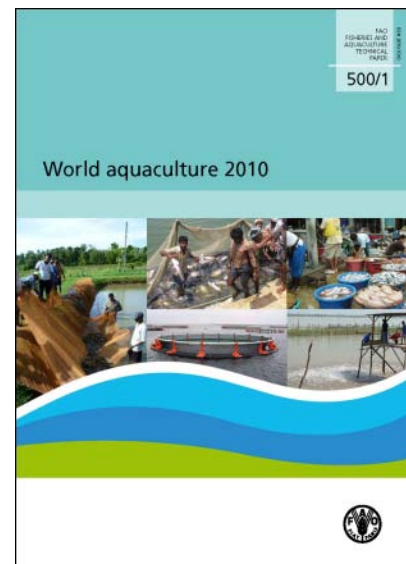
Réseau canadien d'aquaculture  
multitrophique intégrée du CRSNG

CIMTAN *Snippets*



Thierry Chopin was asked by Rachel Mutter, the Editor of IntraFish Media, to become a member of the **Editorial Advisory Board of *Fish Farming International***. Thierry Chopin accepted, as having an “academic perspective” at the table should add some “biodiversity”.

IMTA was **mentioned in** the latest report of the Food and Agriculture Organization of the United Nations: **World Aquaculture 2010**. **FAO Fisheries and Aquaculture Technical Paper 500/1**. In the section “Ecosystem approach to aquaculture” (p. 38-41), the development of IMTA systems is described as “a welcome opportunity, especially in the western hemisphere”. A picture of an IMTA site in the Bay of Fundy is included with the text.





The beautifully choreographed dance piece “IMTA” from Motus O Dance Theatre made the cover page of the November/December 2011 issue of *Aquaculture Northern America* with an article by Kathy Kaufield. According to Peter Chettleburgh, the Editor, “this is the first time in the 25 year history of the publication that we've had a dance-related article on the cover. Not often do we get that sort of opportunity in the aquaculture biz. It was fun doing it!”. For Motus O Dance Theatre, they never thought they would make the cover page of an aquaculture professional magazine... quite a unique item in their artistic portfolio! A great testimony to what science and dance can accomplish together when they meet and sparks are generated.

Read the article:

[http://www.unbsj.ca/sase/biology/chopinlab/articles/files/2011.11.Kaufield\\_2011\\_IMTA\\_recreated\\_dance\\_Aquaculture\\_NA.pdf](http://www.unbsj.ca/sase/biology/chopinlab/articles/files/2011.11.Kaufield_2011_IMTA_recreated_dance_Aquaculture_NA.pdf)

Also, read the article in the latest Newsletter from Cooke Aquaculture Inc.:

[http://www.unbsj.ca/sase/biology/chopinlab/articles/files/2011.12.Cooke%20Aquaculture%20Newsletter\\_Dance%20puts%20the%20culture%20in%20aquaculture.pdf](http://www.unbsj.ca/sase/biology/chopinlab/articles/files/2011.12.Cooke%20Aquaculture%20Newsletter_Dance%20puts%20the%20culture%20in%20aquaculture.pdf)

IMTA made the cover page and was the feature article in the December 2011 issue of *Aquaculture Europe*. Alistair Lane (Executive Director of the European Aquaculture Society) and Yves Harache (President of the EAS) invited Thierry Chopin to be a panel presenter at the Aqua Nor Forum in Trondheim, Norway, last August. This provided an opportunity for reflection on what it will take to scale up IMTA and increase its acceptance and adoption. This was an interesting exercise as we are right there: our challenge is how to move along the R&D&C continuum so that IMTA commercialization moves from the small “c” to the big “C”.

Read the article:

[http://www.unbsj.ca/sase/biology/chopinlab/articles/files/2011.12.Chopin\\_in\\_Aquaculture\\_Europe.pdf](http://www.unbsj.ca/sase/biology/chopinlab/articles/files/2011.12.Chopin_in_Aquaculture_Europe.pdf)

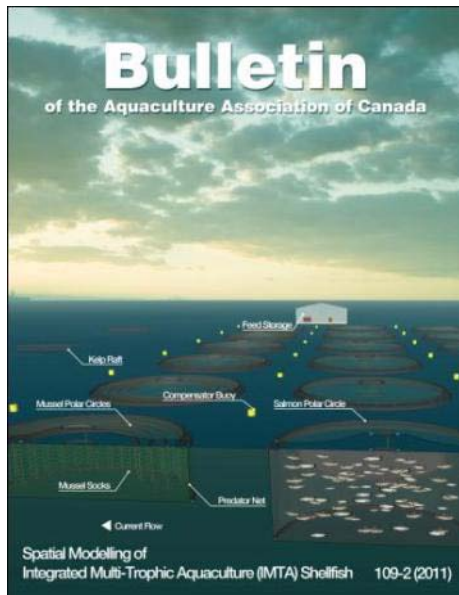




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The Proceedings of this past September's CIMTAN Technical Workshop "Spatial Modelling of Integrated Multi-Trophic Aquaculture (IMTA) Shellfish" are now being published in the *Bulletin of the Aquaculture Association of Canada*. If you are a member of the Aquaculture Association of Canada (AAC), a hard-copy will be mailed to you. If you are a CIMTAN member, have not yet joined the AAC, and would like a copy of the proceedings, please contact Gregor Reid ([greid@unb.ca](mailto:greid@unb.ca)). PDFs of [the Bulletin](#) are available to non-members on the [AAC website](#) one year after posting.

Peter MacLeod, Erin Clendenning and Matt Darrah enrolled, last summer, in the MBA Activator Program offered by the International Business & Entrepreneurship Centre (IBEC) of the Faculty of Business Administration at the University of New Brunswick (UNB). They decided to team up to develop their business case on IMTA and more specifically the seaweed component. Between November 30 and December 2, they competed in a variety of events in the Bank of Montreal Apex Business Plan Competition, in front of a panel of accomplished judges in the fields of marketing, finance and entrepreneurship. The business plan of "Progressive Aquaculture" was particularly noted as Peter, Erin and Matt won no less than the First Place Graduate Grand Prize, the Best Elevator Pitch Award and the Viewers Choice Award. On December 1, they also entered the Student Pitch Competition sponsored by the newly launched Pond-Deshpande Centre for Innovation and Entrepreneurship at UNB and they did it again: they won the Best Technological Pitch. Congratulations Peter, Erin and Matt: great work on an attractive and promising topic!



Mr. Lee Winchester, of the Bank of Montreal Financial Group, presents the \$5000.00 Grand Prize cheque to Matt Darrah, Erin Clendenning and Peter MacLeod who is also holding the trophy for First Place in the graduate track.



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**Celebrating Sustainable Seafood**, the video of the 2011 Ronald C. Baird Sea Grant Science Symposium, highlights the best of the symposium "Developing the Rhode Island Seafood Knowledge Economy: Perspectives on Seafood Sustainability", which was attended, last June, by Thierry Chopin (CIMTAN Scientific Director), Chris Aerni (Chef and owner of the Rossmount Inn) and Andrew Lively (Marketing Communications Manager at Cooke Aquaculture Inc.).

Watch the video: [http://www.youtube.com/user/RISeaGrant#p/a/u/0/vCe1v9QP\\_Nc](http://www.youtube.com/user/RISeaGrant#p/a/u/0/vCe1v9QP_Nc)

Also, read the article in the latest Newsletter from Cooke Aquaculture Inc.:

<http://www.unbsj.ca/sase/biology/chopinlab/articles/files/2011.12.Cooke%20Aquaculture%20Newsletter%201112%20TC%20RI%20conference.pdf>

**Sarah McConnachie** joined CIMTAN in the fall of 2011 as a new PhD student working at the University of Prince Edward Island under the supervision of David Speare. Sarah has an undergraduate degree from the Department of Microbiology and Immunology (Cornell University) with a focus on fisheries ecology, environmental science and aquaculture. Sarah completed her MSc degree (Carleton-Ottawa Institute of Biology) with a focus on stress physiology in migrating Pacific salmon. Her background dovetails very well with CIMTAN and her PhD thesis will continue work already underway, examining the potential role of blue mussels to mitigate *Loma salmonae* infections in marine-cultured salmon. Recently, Sarah presented some of her preliminary findings and networked with other researchers at the Atlantic Canada Association of Parasitologists meeting in Pictou, Nova Scotia. Her paper "*Ultrastructural study of the emergence and fate of Loma salmonae spores following xenoma rupture*" helps us better understand the structural coating of *Loma* spores at the point of release from salmon gills. Microsporidia, being intracellular organisms, may escape the gill within boundary-migrating teleost leukocytes; spores may also become surrounded by aspects of gill biofilm found within the epicellular environment of the lamellar epithelial cells. If either of these hypotheses can be demonstrated, they will challenge our current understanding of the extracorporeal status of infective spores. Knowing this will help us evolve and modify our current quantitative model of spore uptake by mussels.



**CIMTAN member quote of the month:**

"Given my interests in fish health and aquaculture, the opportunity to be involved in the network is a perfect fit." (*Sarah McConnachie, CIMTAN PhD candidate*).