



Update

Electronic Newsletter for AquaNet Members
April 1, 2002

Important Dates

May 3, 2002 - Conference Call

Board of Directors
to approve progress on Mid-Term Review

May 24, 2002 - Toronto, ON

Research Management Committee

June 21, 2002 - St. John's, NF

Board of Directors Meeting
to review Mid-Term Submission Document

September 2002

NCE Review Panel meets with AquaNet
Mid-Term Review Committee

December 2002

NCE's Announcement on AquaNet's Mid-term
Review & Funding for 2003 - 06

Announcements

Administrative Centre

Welcome to the latest issue of **Update**. This newsletter is the main internal communications avenue for AquaNet members. The deadline for submissions is the 15th of each month with **Update** distributed 3-4 days later. Submissions / questions can be sent to info@aquanet.ca

There appears to be some confusion about the term **Network Affiliate**. A Network Affiliate is a defined term in the AquaNet Network Agreement. *It refers to a company, government agency or other organization that is involved with or provides support for a specific research project or other Network activity.* The involvement of Network Affiliates is

absolutely essential to continued funding of AquaNet. As such, Network Affiliates should be properly recognized and kept informed of progress being made on specific projects.

Message from the Scientific Director

This Update has been delayed in part to allow an opportunity for investigators to receive their award notifications so that I can provide some additional clarification.

When the Research Management Committee (RMC) reviewed the progress reports in February, one of the most striking factors that emerged was the large amount of funds remaining in research accounts. To put the discussion into context, a total of \$5.8 M in AquaNet funds had been awarded in research grants across the country in the last two fiscal years (2000/01 and 2001/02). At the time of submission of the progress reports, there was still \$2.4 M or 41% of that unspent. In the non-salary category, a total of \$2.5 M had been awarded and \$1.3 M or 52% remained unspent with three months left in the 2001/02 fiscal year. This naturally caused concern for the RMC and the Board of Directors on two fronts: the need to demonstrate financial accountability and the need to shore up funds for the Network's research program in phase II (2003/04 to 2005/06). [continues on the next page](#)

Contents

- 1 **Important Dates**
- 1-3 **Announcements**
- 3 **Research Funding 2002-03**
- 4 **AquaNet II**
- 4-5 **Education Committee News**
- 6 **Positions Sought**
- 7-8 **Conference Announcements**

Message from the Scientific Director (con't)

In the progress reports, it was not uncommon for a Principal Investigator to report that the team's research plan had deviated slightly from the original submitted a year ago: a planned workshop did not get off the ground, for instance, or a piece of equipment had been borrowed rather than purchased or a particular species proved to be unpopular with industry and had to be dropped from the study. These results were not unexpected and not in themselves cause for concern. Coupled with the financial picture, however, it prompted the RMC to consider that the 2002/03 budgets tentatively approved in March 2001 may need adjustment to reflect possible changes in a research study. The result was that the RMC recommended (and the Board approved) that Network Investigators be required to submit a revised budget and budget justification for 2002/03 by May 13, 2002. For most programs the budget justification will be a simple matter of stating who is engaged, what their status is, what they are doing (very, very briefly), and the projected expenses. We will provide you with a template and a budget form at a later date.

In response to requests from some Network Investigators, your award letter also states that there will be an opportunity to apply for carry forward of funds beyond March 31, 2003. It is the expectation that most projects will be on research and financial target but for those projects that may require a little more time to be completed, investigators will be given the opportunity to apply to carry forward into 2003/04 all or a portion of the funds remaining in their research accounts at the end of 2002/03.

In parallel to the research effort, the wheels are in motion to submit documentation for mid-term review. Extensive paper work is required involving progress, forward strategy, and endless reporting details. A committee has been struck to marshal us through the process. The committee consists of:

Tim Fleming, Chair of the Board of Directors
David Rideout, Executive Committee Member of
the Board of Directors
William Driedzic, Scientific Director
Joan Atkinson, Network Manager
Joe Brown, Theme Leader
Moira Ferguson, Theme Leader
Scott McKinley, Theme Leader
Ralph Matthews, Theme Leader
Jay Parsons, Chair of the Education Committee

Gordon Deveau, Manager of Partnership
Development

We are working under very tight timelines. As such, I hope I can count on your support by asking you to respond promptly to any questions you may receive on this matter.

William Driedzic

Animal Production Theme Leaders

Representatives from the twenty Animal Production projects met on the 7th and 8th of March in Moncton. During the first day, the group of about 50 individuals was updated on the progress of each project through oral presentations.

The second day began with a presentation by Gord Deveau on the future timelines for AquaNet and an overview of the need for increased networking and collaboration with industry. The group was then asked by the theme leaders to think about how networking and collaboration might be enhanced through the development of new project teams and clusters of researchers with similar interests and goals in terms of industrial relevance. The remainder of the day was spent developing such revised research frameworks for the Animal Production Theme and much constructive discussion was spent on how such ideas might be put into practice.

Moira and Joe would like to extend thanks to all those that were able to participate.

Socio-Economic Aspects Theme Leader

Representatives of the SEA Theme are planning a Theme Meeting to allow the participants to present and talk about their research, develop together collaborative ideas, discuss publication plans and meet the new SEA projects.

Members of the SEA Theme will be notified once the date for this meeting has been determined. Please contact Ralph at ralphm@interchange.ubc.ca if you have any further questions.

Manager of Partnership Development

On behalf of AquaNet, I would like to welcome three new Network Affiliates to the AquaNet community. They are the Canadian Food Inspection Agency, the Canadian Centre for Fisheries Innovation and the New Brunswick Department of Agriculture, Fisheries and Aquaculture.

Gordon Deveau

Research Funding 2002 - 2003

At the March 8 meeting of the Board of Directors, 37 projects were allocated funding for 2002-2003 of the 39 research projects reviewed by the Research Management Committee. One project had successfully finished in 2002 and one project was not awarded subsequent funding.

Following the recent targeted Call for Proposals for the Socio-Economic Aspects Theme, the Board of Directors adopted the recommendation of the RMC to award funding to three new projects. They are:

SE 9: Network Governance and “Smart Regulation” for the Development of Sustainable Shellfish Aquaculture in Canada

Jeremy Rayner, Malaspina University-College
Rick Rollins, Malaspina University-College
Bill Pennell, Malaspina University-College
Chris Tollefson, University of Victoria
Michael Howlett, Simon Fraser University
Peter Clancy, St. Francis Xavier University

SE 10: Property Rights, Aquaculture and Mariculture: A Multidisciplinary Analysis of the Institutional Changes Arising from Changes in Ocean Resource Use Practises (Québec and New Brunswick)

Jean-Paul Vanderlinden, Université de Moncton
Jean-Claude Brêthes, Université du Québec à Rimouski
Omer Chouinard, Université de Moncton
Nicolas Landry, Université de Moncton
Ibrahim Outtara, Université de Moncton
Claude Rioux, Université du Québec à Rimouski
Brad Walters, Mount Allison University
James Wilson, Université du Québec à Rimouski

SE 11: Hierarchies of Objectives and Criteria as a Basis for Salmon Aquaculture Risk Management Decisions Involving Multiple Stakeholders

Tim McDaniels, The University of British Columbia
Hadi Dowlatabadi, The University of British Columbia
Keith Hipel, University of Waterloo

Funding for a further project is pending.

AquaNet II

The Second Annual Research Conference for AquaNet will be held Sept. 14 -17, 2002 at the Delta Beausejour in Moncton, NB.

A template for this meeting has been developed after consulting various individuals including the Theme Leaders, the Chair of the Education Committee, and reviewing the surveys submitted on AquaNet I.

A series of sessions developed by each of the Themes will be held consisting of a 40-minute introductory talk followed by two 20-minute presentations. The introductory talk will take the audience from the basics to a current state of understanding. The two follow-up presentations will likely be made by Post-Doctoral Fellows or PhD candidates in the area addressed by the introductory speaker.

A special industry session is planned for the first day of AquaNet II. This session is being spear-headed by industry representatives that currently sit on the AquaNet Board of Directors.

Due to the resounding success of the poster session last year, we plan to expand the poster session to two afternoons.

The remainder of the conference schedule will include the *AquaNet Distinguished Lectureship*, Education Committee Report, Theme / Sub-Theme Meetings and several industry-oriented activities.

It is anticipated that the First Announcement of AquaNet II will be made in early May listing the session titles and the invited speakers.

As details are finalized, they will be announced here and on the website.

**See you at AquaNet II in
Moncton, New Brunswick
September 14 - 17, 2002**

**Nous espérons que vous serez des
nôtres pour AquaNet II, qui se tiendra
du 14 au 17 septembre 2002,
à Moncton, au Nouveau-Brunswick.**

Education Committee News

APICS Presentation Awards

Two AquaNet graduate students won presentation awards at the APICS 12th Annual Atlantic Universities Aquaculture Conference, March 8-10, in Moncton, New Brunswick.

Johanne Lewis, Ocean Sciences Centre, Memorial University, won the 4th place graduate student award, sponsored by APICS. Her talk was entitled, *Seasonal antifreeze response in rainbow smelt* (*Osmerus mordax*). The co-author of this paper is William R. Driedzic (Ocean Sciences Centre).

Joanne Harding, Marine Institute of Memorial University, won the 2nd place graduate student award, sponsored by Moore Clark. Her talk was entitled, *Evaluation of the neutral red retention assay as a stress indicator in mussels* (*Mytilus* spp.) *in relation to husbandry, harvesting and holding practices*. Co-authors of this paper are Cyr Couturier (Marine Institute), Jay Parsons (Marine Institute) and Neil Ross (National Research Council, Institute for Marine Biosciences).

Travel Scholarships

Kelley Baltzer, Dalhousie University, has been approved to attend an *AquaNet sponsored workshop*, **Basic Introduction to Recirculation in Aquaculture**, in Cardigan, PEI to learn about providing ozonation in recirculating systems in relation to the control of pathogens and water quality.

Jean-Sebastien Lauzon, University of New Brunswick, has been approved to attend a *non-AquaNet sponsored workshop*, **Mathematical Biology Summer Workshop**, in Edmonton, Alberta to study mathematical modelling technologies in relation to mussel population dynamics.

Dorothee Schreiber, The University of British Columbia, has been approved to participate in an *industrial placement* with **Marine Harvest Canada** in Campbell River, British Columbia to study the daily activities on a salmon farm in support of her research project, which addresses use of 'frames' or central organizing ideas in relation to the British Columbia aquaculture industry.

Joanne Harding, Marine Institute of Memorial University, has been approved to participate in an *industrial placement* with **Helm and Associates**, in conjunction with the **Bermuda Biological Station for Research** in Ferry Reach, Bermuda to gain experience in a commercial scallop hatchery / nursery and growout system using intensive and extensive culture techniques and as well, to study the effects of different culture techniques on animal stress levels.

Ben Lowen, Memorial University, has completed a *research placement* with the **National Research Council, Institute for Marine Biosciences** to learn and work on biochemical assays used as indicators of stress in bivalves including SDS-PAGE, Western Blotting and protease zymography techniques.

AquaNet Sponsored Workshops

Delivered

1. Approximately 65 people participated in a **Global Growing Techniques** workshop organised by the **PEI Aquaculture Alliance**, March 22 during the Great Atlantic Shellfish Exchange in Charlottetown, PEI.

2. Approximately 35 people participated in a **Floating Longline Technology** workshop organised by Québec's mariculturers' association - **Regroupement des Mariculteurs du Québec**, March 20 in Sept Îles, Québec.

Upcoming

3. **The Canadian Aquaculture Institute** will deliver a **Basic Introduction to Recirculation in Aquaculture** workshop May 9-10, 2002. To register, or for further information please contact the workshop organiser,
Kelly Cantelo tel: 902-628-4335
e-mail kcantelo@upe.ca

or Melissa Struthers tel: 709-737-8093
e-mail: mstruthers@mun.ca

4. **The Marine Institute**, in collaboration with Université du Québec à Rimouski and the Norwegian College of Fishery Science will deliver a **Wolffish Culture** workshop. This workshop is scheduled to take place during early May. For further information please contact the workshop organiser,

Laura Halfyard tel: 709-778-0363
e-mail: Laura.Halfyard@mi.mun.ca

Please visit the following link for updated information on AquaNet sponsored workshops.

www.aquanet.ca/education/upcomingwork.html

Positions Sought

AquaNet Post-Doctoral Candidates
(for further information on any of the candidates
contact [Melissa Struthers at mstruthers@mun.ca](mailto:mstruthers@mun.ca))

Aftab Alam

· currently in India

Ph.D.

1996 - 2000

- Toxicology
- Chemopreventive activity of natural products against chemically induced skin tumor in swiss albino mice
- Hamdard University, New Delhi, India

M.Sc.

1994 - 1996

- Toxicology
- Hamdard University, New Delhi, India

B.Sc.

1988 - 1993

- Chemistry
- Bihar University, Bihar, India

Research Positions Sought
(for further information on any of the candidates
contact [Melissa Struthers at mstruthers@mun.ca](mailto:mstruthers@mun.ca))

David Stirling

I would be interested in working in any position in the discipline of biology. Even though my main interest is with marine biology, I also have much interest in the fields of conservation, ecology and environmental concerns. Planning to the Marine Institute to take their aquaculture program in the fall.

B.Sc.

1998 - 2002

- Biology
 - Memorial University of Newfoundland, St. John's, NF
-

Conference Announcements

The International Council for the Exploration of the Sea 6th International Atlantic Salmon Symposium Edinburgh, Scotland -- July 15-18, 2002

The 6th International Atlantic Salmon Symposium, sponsored jointly by the Atlantic Salmon Federation and the Atlantic Salmon Trust, will be held in Edinburgh, Scotland on July 15-18, 2002. The symposium's focus will be on wild salmon, but one of the sessions, entitled *Running the gauntlet -- inshore and coastal hazards*, Chaired by Malcom Windsor of NASCO, will touch upon aquaculture. The industry's input will be in a paper, *Overcoming the problems--the salmon farmer's view*, given by Lord Lindsay and Gordon Rae.

As you may know, Lord Lindsay (the Earl of Lindsay) is Chairman of Scottish Quality Salmon, a Trade Association representing about 70% of Scottish salmon farmers. Gordon Grae is a scientific consultant to SQS, who has been very much involved in the work of the Tripartite Working Group, which is promoting co-operation between fish farmers, wild fishery interests, and Government in tackling problems arising from salmon aquaculture.

For more details, click on
<http://salmonsymposium.org/brochure/pdf>
or

Chairman of ASF's Symposium Committee
Dr. John M. Anderson
Scientific Advisor, Atlantic Salmon Federation
(506) 529-1023 atlsal@nbnet.nb.ca

Symposium on Impacts of Myxozoan Parasites in Wild and Farmed Finfish

Malaspina University-College, in partnership with Fisheries and Oceans Canada, is pleased to offer a 3-day symposium on the Impacts of Myxozoan Parasites in Wild and Farmed Finfish.

The symposium will take place in Nanaimo, BC from July 31st to August 2nd, 2002. This event will include a one day workshop on Kudoa.

For details, visit the website at:

<http://web.mala.bc.ca/faep/myxozoa.htm>

National Shellfisheries Association Annual Meeting

Program information (schedule of sessions, talks, etc.) for the 94th Annual Meeting of the National Shellfisheries Association is now available on the NSA web site (www.shellfish.org).

NSA 2002 will be held at the Hilton Mystic Hotel in Mystic, CT on April 14th - 18th, 2002. Information concerning room reservations, meeting registration form, detailed travel information, etc. can also be found on the NSA web site.

We look forward to seeing you in Mystic!

Proceedings Available for the Central Newfoundland Aquaculture Forum and Tradeshow

The Coast of Bays Corporation hosted the Central Newfoundland Aquaculture Forum at Harbour Breton and St. Alban's on October 19 - 21, 2001. In attendance were politicians and people representing industry services providers, development agencies along with the general public.

For more details on the conference, with photos and proceedings summary, go to:

<http://www.coastofbays.nf.ca/news/aquaforrept.htm>

Aquaculture Europe 2002

The European Aquaculture Society has the pleasure to officially announce its Aquaculture Europe 2002 international aquaculture meeting, which **will be held in the Italian city of Trieste** (and not Verona, as previously communicated) from October 16-19, 2002.

Visit our website at www.easonline.org for programme details, registration costs, as well as general information related to Trieste and its region.

Aquaculture Canada 2002

The 19th Annual Meeting of the Aquaculture Association of Canada, Aquaculture Canada 2002, will be held in Charlottetown, PEI, at the Delta Prince Edward, 17-20 September 2002.

The theme is "Finding Solutions, Creating Sustainable Wealth". You are invited to join us for this national forum on the business, science and technology of Canadian aquaculture.

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. The First International Mussel Forum is being planned in conjunction with AC02. A trade show organized by the PEI Aquaculture Alliance and a full social program will provide ample opportunity for networking and information exchange.

Aquaculture Canada 2002 will be co-hosted by the Aquaculture Association of Canada, the PEI Aquaculture Alliance, and the PEI Dept. Fisheries, Aquaculture and Environment.

For more information or to be put on the distribution list, contact the Aquaculture Canada 2002 Secretariat at:
(506) 529-4766
aac@mar.dfo-mpo.gc.ca
<http://www.mi.mun.ca/mi/aac>

The Prince Edward Island Shellfish Festival, to be held immediately after Aquaculture Canada 2002, from September 20-22, offers something for everyone. This annual festival, which takes place against the backdrop of the beautiful Charlottetown waterfront, provides what the Island is famous for!

Details are found at: <http://www.peishellfish.com>

Basic Introduction to Recirculation in Aquaculture

This will be a two day basic introduction workshop to recirculation. It will compare flow through systems to recirculation systems, and outline the overall benefits of recirculation to aquaculture. Lectures will be followed by hands-on laboratories.

May 9-10, 2002
Cardigan Fish Hatchery, Cardigan, PEI

For more details and to register, please visit the Canadian Aquaculture Institute's Website at www.upei.ca/~cai or contact Kelly Cantelo at 902-628-4335 kcantelo@upei.ca

International Congress on the Biology of Fish

July 22-26, 2002
Vancouver, Canada

There are over 20 Symposia planned, all of which will have published proceedings.

For further information, check out the website at www.fishbiologycongress.org

Many of the announcements and news articles are provided courtesy of:

**Dave Conley, MSc
D.C. Conley & Associates
Aquaculture Communication Consultants**

dave.conley@sympatico.ca