



Atlantic International Chapter

NEWSLETTER

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President's Message

All of you who attended the 27th Annual Meeting at the Geneva Point Conference Center on Lake Winnepesaukee should have recovered from the late night bonfire exchanges by the time you read this message! Many thanks to Scott Decker and the Local Arrangements Committee as well as the State of New Hampshire for hosting and putting on a memorable meeting at a spectacular venue. Participation by our colleagues from the Southern New England Chapter and the tremendous array of raffle prizes made the meeting a tremendous success. Many kudos to Gabe Gries for rounding up an impressive list of raffle items.

Plans for the 28th Annual Meeting in New Brunswick are proceeding slowly but are gaining momentum. See related article in this newsletter.

Three items that I would like to see undertaken during the upcoming year are 1) revision of the AIC bylaws, 2) updating the AIC logo, and 3) intensify our efforts in recruiting younger professional biologists and university students in joining AFS.

The current AIC Bylaws are listed on our website. Presently, there is no Bylaw article that states officers can be elected by simple majority at the annual business meeting - a process we have used as long as I can remember. Instead, the Bylaws state that the protocol to be used is that officers are to be elected by mail ballot! We need two or three individuals to **volunteer** as part of a Bylaw Committee and revise the Bylaws as necessary. It would be desirable to have revisions ready for a membership vote at our next meeting.

I feel the AIC logo is a bit dated. As far as States and Provinces are concerned, the Province of Quebec is not included in the current design and Peter Cronin stated at our last meeting that maybe this is one reason why we have seen a considerable decrease in participation from our Quebec colleagues. With all the CAD software available, there must certainly be one or more talented individuals in our chapter who would be willing to **volunteer** to redraft the logo as a more contemporary design. Would it not be great to have a competition and have the membership vote the winning design? I suggest a prize equivalent to one year's AFS dues for the winning designer. Let me know if you have ideas on how we may accomplish this task.

I hate to beat the proverbial horse, but membership in AFS is a recurrent issue. Scott Decker and Brandon Kulik, the AIC Membership Committee, have done an excellent job but I think it is time for all of us to give them a helping hand. We all need to **volunteer** some of our time and approach former members who have let their member-

FIRST CALL FOR PAPERS! PUT THE AIC ANNUAL MEETING ON YOUR CALENDAR, SEPTEMBER 22-24, TRACADIE-SHEILA, NEW BRUNSWICK!

ship lapse about rejoining AFS, recruit biologists we work with to join AFS as well as aspiring biologists from universities and colleges in our chapter area. I won't repeat the benefits of AFS membership here since a list can be found on the parent society website. Please note that there are now several membership categories including young professionals whereby it is possible for a young professional to pay student dues for three years after graduation. See the latest information regarding membership in the January 2002 issue of Fisheries (Volume 27, No. 1).

In this message, I've stressed the word **volunteer**. AFS is *your* professional society and with membership, rewards of belonging are returned many fold by your degree of participation. With that said, who amongst the membership is willing to serve on the Bylaw Committee, AIC Logo Committee, and/or recruit new members?

Have yourselves a good winter. As always, ideas, comments, critiques, and volunteerism gladly accepted!

Norm Dube, President

FIRST CALL FOR PAPERS
28th Annual Meeting
Atlantic International Chapter of AFS

“Homeland Security
Do you know what is in your water?”
September 22-24, 2002 Tracadie, New Brunswick

You are invited to submit abstracts for review on any topic related to bio-security, exotics, or disease issues. In addition, we will still hold our traditional Open Session and Sunday night informal sessions, for which abstracts for any topic are invited.

Send abstract, title, or notice of interest to:

Bio-Security Session Chair

G. Russell Danner
Fish Pathologist
Fish Health Laboratory
Maine Department of Inland Fish and Wildlife
RR5, Box 975, Burns Road
Augusta, Maine 04330
ph. (207) 287-2813

Program Chair and Contact for Other Papers

Larry Miller
US Fish and Wildlife Service
Maine Field Office
1033 South Main Street
Old Town, Maine 04468
ph. (207) 827-5938

AMERICAN FISHERIES SOCIETY
ATLANTIC INTERNATIONAL CHAPTER
MINUTES OF THE BUSINESS MEETING
SEPTEMBER 25, 2001
GENEVA POINT CENTER, CENTER HARBOR,
NEW HAMPSHIRE

The 27th Annual Meeting of the American Fisheries Society, Atlantic International Chapter (AIC) was called to order by President Forrest Bonney, at 8:15 am on September 25, 2001 in a meeting room at the Geneva Point Center, Center Harbor, New Hampshire, USA. Fred Kircheis was appointed Sergeant-at-Arms by the president, and determined there was a quorum. Vice-president Norm Dube and Secretary Larry Miller were at the head table with the President. The first order of business was to recognize past Atlantic International Chapter (AIC) Presidents (Alan McNeill, Joan Trial, Brandon Kulik, Peter Cronin, Peter Amiro, Scott Decker, and Fred Kircheis) and distinguished guests (Northeastern Division Representative Joan Trial).

OLD BUSINESS

The minutes of the 2000 business meeting were printed in the January Newsletter, and Peter Cronin moved that the minutes be approved as printed, seconded by Scott Decker. The motion passed.

Secretary/Treasurer Larry Miller presented the financial report and copies were distributed to the membership. The balance in the AIC Bangor Savings Bank account on September 23, 2001 was \$6,986.25 US. The balance of the Canadian funds account in the Royal Bank of Canada was \$1,551.02 CAN as of September 23, 2001. Ken Beland moved the report be accepted, seconded by Brandon Kulik, and the motion carried on a voice vote.

COMMITTEE REPORTS

Excom – Brandon Kulik gave a brief summary on the 2002 Northeast Division Meeting.

Membership – Scott Decker presented the Membership Committee Report. As of September 2001 the AIC consisted of 134 US and 101 CAN members for a total membership of 235 paid members. Most of the turnover in membership was noted to students and people who moved out of the area. Since delinquent members (one year or less) and courtesy addressees are maintained on the News Letter mailing list a total of 275 were mailed out.

Scott reported that the recruitment contest held in 2001 did not result in any new members. A discussion on how to raise the membership insured. It was noted that 25% of

those attending our annual meetings (i.e., guest speakers, students, interested parties) were not AFS members and that more should be done to recruit these individuals. Of the current membership attending the meetings 40% were state or provincial, 30% were federal, 20% were from the private sector (i.e., consultant, NGO, interested public) and 10% were from universities.

It was suggested that we target a sector such as universities and offer student waivers for meeting attendance or pay half of a student's membership fee to the parent society. It was indicated that professors don't seem to be pushing students to join even though many encourage their students to present at meetings.

Scott Decker will look into providing outreach mailings to universities by targeting individual professors in the field of fisheries.

Peter Cronin suggested that we send newsletters and meeting information to retired members to get them re-involved and noted that our chapter logo should be modified to include the Province of Quebec so they will feel welcome in our chapter. Membership agreed.

Concern was raised over the fact that the chapter has no dues and thus outreach is difficult unless materials and mailing costs are supported by an outside agency.

It was noted that there is a general "graying" of fisheries staffs in state, provincial, and federal governments and that we needed to recruit new membership. Some membership noted that recent meetings have focused on coastal issues and that more emphasis needed to be placed on inland themes.

Fred Kircheis said we need to focus our message on the practical information and continuing education that can be obtained from membership and attending annual meetings and chapter sponsored symposia. We need to promote these opportunities and invite people to come and learn.

Angie Incerpi stated that all you have to do is to show up at the meetings and you cannot help but learn, if not from the papers that are presented then from the personal contacts and informal discussions. If you just stay at home you will get stale and have no one to blame but yourself. Students should be made aware for the fact that many of the people that come to the meeting are the people that will do the hiring of future fisheries staff and a little one-on-one could go a long way toward being a successful applicant for a job.

Len Gerardi indicated that we should contact the parent society for help in attracting members. They should help

by the Archive Committee had been duly archived and all requests fulfilled. It was noted that old chapter pictures still needed to be captioned and included in albums that could be displayed at our meetings. A volunteer is needed. Also any one with pictures from past meetings or chapter events are invited to send them to the archives chair or bring them to the next meeting.

Newsletter – Scott Covington, (editor) reported that things were going well with the newsletter and, that members should send any items of interest for inclusion to him. As always, he is looking for articles of regional interest for inclusion in the newsletter. Also we are trying to limit the number of mailings to reduce costs and save paper, so all members who wish to receive the newsletter via email are asked to leave their name at the registration desk or send Scott an email notifying him.

Website – Shawn Good, (Webmaster) reported bibliography of gray literature from the chapter membership had been added to the website and it was hoped that it would soon be upgraded to include a searchable text option. Pictures from the last meeting were available and any electronic pictures from this meeting were requested to be sent to the Webmaster. If any member has suggestions for the web site they are encouraged to contact Shawn.

NEW BUSINESS

The Nominating Committee presented its recommendation for the office of president and recommended Norm Dube, the current Vice-president. For the office of Vice-president the committee recommended Scott Covington (accept), Allan Curry (decline), Pam Seymour (decline), and Larry Miller (accept). The Committee also recommended Steve Shepard for the office of Secretary/Treasure. Nominations for Officers were taken from the floor, none were made.

There being no nominations from the floor, Ken Warner moved to close nominations, which were seconded by Larry Miller, and the motion passed.

Peter Cronin moved that the Secretary cast one unanimous vote for the sole candidates for the offices of President (Norm Dube) and Secretary/Treasurer (Steve Shepard), seconded by Pam Seymour, and passed unanimous by a voice vote.

The candidates for vice-president were given the opportunity to address membership before the ballots were cast. Following the candidates' address the Sergeant-at-Arms directed a ballot vote, which was overseen by the vice-president. The ballots were counted, and the results of the vote indicated the Larry Miller was duly elected as the

us by providing information on contact lists for aquaculture and private consultants that may be interested in our society.

It was emphasized that we need to find the strategic contacts in the universities that could point out the benefits of society membership to upcoming fisheries biologists.

Ken Beland suggested that the chapter contact the parent society to see what related studies and information they may have on membership and recruiting.

Scott Decker said that as membership chair he has never contacted the parent society, but they have never offered much help or guidance on recruitment.

Peter Cronin believes we have done our job if we put on a good program and meeting forum. Len Gerardi states that the good attendance at annual chapter meetings points to our success in reaching out to the current membership.

Angie Incerpi suggested Associate Membership for interested people in other fields belonging to similar societies. We seem to be missing the boat when it comes to aquaculture and related fisheries interest groups including bait dealers, commercial recreational operators and angling groups. There appears to be a regional interest in the Chapter but not necessarily the parent society among some of these groups.

Len Gerardi suggested expanding our mailing list to include as many of these groups and interests as possible in hopes that they may become involved and join the society or at least contribute to expanding the interests of our chapter. We need to get the commercial mailing list from the parent society and focus some outreach in that direction. Once we have people interested in what were doing we should work to make them members, not make them members and then get them interested in what we are doing.

Joan Trial made a motion to go back three years in our meeting attendance records and send letters to those non-members inviting them to attend next years annual meeting in hopes of attracting new members. The motion was seconded by Ernie Atkinson and passed unanimously.

It was also suggested that we contact related web-site managers and ask them to place a link to our chapter web-site on their site.

Student Stipend – two student presenters requested and will receive stipends for the meeting.

Archives – Fred Kircheis reported that all items received

next vice-president of the AIC.

Brandon Kulik presented a resolution thanking those responsible of organizing the meeting. A motion to accept by Joan Trial, seconded Ernie Atkinson, passed on a unanimous voice vote.

The new President Norm Dube and new Vice-president Larry Miller were escorted to the head table by past-presidents Alan McNeill, Joan Trial, Peter Cronin, Peter Amiro, Scott Decker, Fred Kircheis, and outgoing president Brandon Kulik. After giving a brief acceptance speech, Norm performed his first duty as President, presenting Forrest with a plaque recognizing his contributions to the chapter over the last year.

Peter Cronin volunteered (?) to host the 2002 AIC annual meeting in New Brunswick. The topic was discussed and aquaculture was suggested. It was decided that the Excom would be responsible for choosing the meeting topic.

Upcoming meetings of interest include the 2003 AFS Parent Society Annual Meeting, which will be held in Quebec (Chapter meeting to be combined with this meeting) and the Northeast Fish and Wildlife Conference on April 21-24, 2002 in Portland, Maine. For the NEFWC meeting the organizers will be soliciting designs for tee-shirt and information that will be used to develop a “family tree” of fisheries biologists to commemorate the 50th anniversary of the North East Division of the AFS. Contact Joan Trial for more information.

Joan Trial moved that the meeting be adjourned, which was seconded by Ernie Atkinson, and passed by voice vote. President Norm Dube adjourned the business meeting at 10:03 am.



**Atlantic International Chapter of the American Fisheries Society
28th Annual Meeting - September 22-24, 2002**

**Complexe Les Deux Rivières
*Tracadie-Sheila, New Brunswick***



This year's meeting will be held at the Complexe Les Deux Rivières in Tracadie-Sheila, New Brunswick. This facility is located in the heart of the Acadian Peninsula along the Gulf of St. Lawrence. This is a new facility offering beautifully appointed cottages all facing the water. Each cottage has 2 bedrooms, full kitchen facilities and a patio. Please visit their website at <http://www.complexe2rivieres.ca>.

How to get there:

The common point is Miramichi/Newcastle. From there, take Route 11 to Tracadie-Sheila. The website (<http://www.complexe2rivieres.ca>) has a detailed map of Tracadie.

Approximate Driving Distances:

Miramichi, NB - 1 hr.	Truro, NS - 4 hrs.	Bangor, Me - 6 hrs.
Moncton, NB - 2.5 hrs.	Quebec City, PQ - 7.5 hrs.	NB/Me border at Houlton - 4.5 hrs.
Fredericton, NB - 3 hrs.	Montreal, PQ - 10 hrs.	NB/Me border at Calais - 5 hrs.
Charlottetown, PEI - 4 hrs.	Montpelier, VT - 11 hrs.	Concord, NH - 10 hrs.

The Complexe requires **reservation confirmation by August 1, 2002** .

A deposit is not required but you must hold your reservation with a credit card number.

For more information on the meeting, contact Kathryn Collet, NB Department of Natural Resources & Energy (506) 453-7109 or kathryn.collet@gnb.ca.

**Atlantic International Chapter of the American Fisheries Society
28th Annual Meeting - September 22-24, 2002**

Accommodations:

Each cottage has 2 bedrooms with either 1 double bed/room or 1 double/ 2 twin beds. Additionally, each cottage has a sofa bed. There is no additional charge for up to 4 people. You must indicate which type of cottage you require, based on whether or not you are sharing accommodations. If you would like to share a cottage but do not have cottage-mates in mind, please indicate that you would like to share accommodations and they will try to match people.

Total Cost for 2 nights (+ tax) = \$172. 50 Cdn/cottage

Meals:

The meal package includes breakfast and lunch on Monday & Tuesday and dinner on Monday evening. Sunday dinner will be on your own.

Cost: \$75. Cdn.

Total cost (meals & accommodations): \$247.50 Cdn (Based on single occupancy)

Commuter/Spouse:

5 Meal Package: \$75. Cdn.

Total: _____
(Payable to the Complexe)

Monday lunch: \$15.

Monday dinner: \$20.

Tuesday lunch: \$15.

Name: _____

Address: _____

Phone: _____ **E-mail:** _____

Preferred cottage: 2 double beds

Double/Twins

Roommates names: _____

Roommates wanted:

M

F

RESERVATION DEADLINE AUGUST 1ST, 2002

**Complexe Les Deux Rivières
100 Rue Deux Rivières
Tracadie-Sheila, NB
E1X 4S9
Toll free: 1-866-394-4050**

**Phone: (506) 394-4050
Fax: (506) 394-3922
E-mail: info@complexe2rivieres.ca
http://www.complexe2rivieres.ca**

AIC Bylaw Review

AIC Bylaws were established to help guide the Chapter. They are fluid, meaning we should periodically review them for content and make changes, if necessary. It's been 15 years since the bylaws were last revised and it is time to review them once more. In his president's message, Norm Dube has asked for volunteers to look at possible revisions. This is a good opportunity to work with other society members to craft bylaws that will carry us through another 15 years. If you are interested in participating, please contact Norm at norm.dube@state.me.us

ATLANTIC INTERNATIONAL CHAPTER AMERICAN FISHERIES SOCIETY BYLAWS

Section 1. Name and Objectives

- a. The name of this subunit of The American Fisheries Society, hereinafter referred to as the Society, is the Atlantic International Chapter, hereafter referred to as the Chapter.
- b. The objectives of the Chapter are those of the Society as set forth in Article I of the Constitution of the Society, and especially, to encourage exchange of information among members of the Chapter.

Section 2. Membership

The members of the Chapter are Active Members of the Society residing in the American states of Maine, New Hampshire, and Vermont and the Canadian Provinces of New Brunswick, Newfoundland, Nova Scotia, Prince Edward Island, and Quebec, and any other Active Member of the Society specifically requesting membership in the Chapter on a year-to-year basis.

Section 3. Officers and Executive Committee

- a. The Chapter officers are the elected officers -- President, Vice-President, and Secretary-Treasurer -- and the Immediate Past President.
- b. Only Active Members of the Chapter may be nominated for or serve in the offices of the Chapter.
- c. The elected officers are elected at the Annual Business Meeting of the Chapter by mail ballot received by the membership at least 30 days prior to the Annual Business Meeting and returned to the Immediate Past President prior to the Annual

Business Meeting. They are installed at the meeting during which they are elected. At that time, the current President automatically becomes the Immediate Past President. The officers retain office until the next Annual Business Meeting. Officers, except Secretary-Treasurer, may not be elected for successive terms.

- d. The Executive Committee of the Chapter comprises elected officers and the Immediate Past President. The Executive Committee is authorized to act on behalf of the Chapter between meetings and to perform appropriate duties and functions.
- e. If an elected officer cannot complete the term of the office, the Executive Committee may appoint a qualified replacement to serve out the unexpired term.
- f. In the event of cancellation of the Annual Business Meeting and the absence of a mail ballot, the officers and the members of any committee shall continue to serve until the next scheduled meeting at which elections may be held.

Section 4. Meetings and Voting

- a. The Chapter shall meet at least once per year. The Executive Committee sets the time and place of the Annual Business Meeting and any other meetings of the Chapter.
- b. In an emergency, the Executive Committee may cancel or change the place of the Annual Business Meeting.
- c. Fifteen Active Members constitutes a quorum for transaction of Chapter business at Chapter meetings.
- d. Decisions at meetings of the Chapter are by simple majority vote of Active Members voting, except two-thirds majorities are required to amend the Bylaws of the Chapter.

Section 5. Duties of Officers and Committees

- a. The President shall preside at all meetings, chair the Executive Committee, make appointments, serve as a voting member of the Executive Committee of the Northeast Division and non-voting member of the Executive Committee of the Society.

- b. The Vice-President shall chair the Program Committee, which has responsibility for the program arrangements at Chapter meetings, and shall assume the duties of the President if the latter is unable to act.
- c. The Secretary-Treasurer shall keep the official records of the Chapter, submit minutes of the Chapter meetings to the Executive Director of the Society and the Secretary-Treasurer of the Northeast Division within 30 days after each meeting, collect and be custodian of registration fees collected under Section 8 of these Bylaws, and of any funds which may be allotted to the Chapter, disburse funds as authorized by the Executive Committee, submit a record of receipts and disbursements at the Annual Business Meeting, and discharge other duties as requested by the Executive Director of the Society, by the Secretary-Treasurer of the Northeast Division, and by other appropriate Society officers.
- d. Committees and Chairpersons of committees, except as listed in Sections 3 and 5 of these Bylaws, shall be appointed and charged by the President. Except for Standing Committees, these Chapter committees shall cease to function upon discharge of the duties for which they were appointed.

Section 6. Amendment of Bylaws

- a. Chapter Bylaws may be amended in accordance with Article VI of the Constitution of the Society and Section 4 of these Bylaws.
- b. Following approval by Chapter membership, by-law amendments must be submitted to the Executive Director at least 45 days before the next meeting of the Executive Committee of the Society.
- c. Bylaw amendments shall not be implemented until they have been approved by the Executive Committee of the Society.

Section 7. Dues and Fees

The membership of the Chapter may establish annual dues for membership in the Chapter. The Executive Committee may assess each registrant attending a meeting of the Chapter a registration fee necessary to cover the costs of the meeting and Chapter activities.

Accepted Revision
September 21, 1987

CHAPTER NEWS

MAINE

Comparative Performance of Two Genetic Groups of Stocked Brook Trout in Maine Lakes

Forrest Bonney

The performance of two new genetic groups of hatchery-reared brook trout was studied in eight Maine lakes from 1998 to 2000. These groups are being developed to replace the older domestic strains which, due to inbreeding, exhibited high mortality rates prior to hatch-out, and were short-lived in the wild. Paired stockings of Kennebago and Sourdnahunk fish, identified by different fin clips, were evaluated for catch rates, growth rates, and fall abundance. Anglers fished the study ponds at an average rate of 29 angler trips/ac/season, kept 0.14 fish/angler, and caught a legal-size brook trout for every 3.7 hours of fishing. The estimated harvest was equally comprised of Kennebago and Sourdnahunk fish. Older (age II+ and III+ fish) accounted for 31% of the Kennebago and 25% of the Sourdnahunk harvest. Because the older fish were heavier, Kennebago fish provided a harvest of 1.39 lb/ac, compared to 0.83 for the Sourdnahunk fish.

Population estimates, determined for only the three ponds with low interspecific competition, averaged 11 brook trout/ac, or 5.0 lb/ac. Older-age fish represented 17% of the number and 27% of the weight of the population. There was no difference in the incidence of hooking injuries between the Kennebago and Sourdnahunk fish. However, the Kennebago fish were more abundant, were larger than the Sourdnahunk fish and matured at an earlier age. There were differences in growth rates among ponds. Age II+ fish of both groups had a higher rate of hooking injuries than age I+ fish. Fish from a pond with an artificial lures only regulation also had significantly more hooking injuries than those from a pond with a fly fishing only regulation. Fish with hooking injuries were less robust than those without hooking injuries. For ponds with a similar number of competing fish species, older-age fish of the Kennebago and Sourdnahunk strains represented 33.5% of those captured, compared to only 4.3% for the domestic strains evaluated in an earlier study. To date, the new strains have higher hatching rates and better survival rates to older age than the domestic strains.

Durepo Lake Reclamation

Dave Basley
Regional Fisheries Biologist
Ashland, ME

In early October, Durepo Lake, its tributaries and outlet

illegal introduction of largemouth bass. Durepo Lake, located in the town of Limestone, Maine, is a 65 acre artificial impoundment having a maximum depth of 25 feet. Prior to reclamation, the lake supported a sport fishery for wild brook trout that was heavily utilized by local anglers.

Investigations by regional biologists determined these bass were introduced as young of the year in 2001 and had attained lengths of 3-6 inches by late August. There is no other population of largemouth bass in this management region and the only smallmouth bass fishery is in another drainage 60 miles south of Limestone. This reclamation was done to eradicate the single year class of bass in the Durepo lake watershed and to eliminate a potential source of bass for future illegal stocking in other drainages within this management region.

Post reclamation investigations discovered that bass had traveled 2 miles up the major inlet, a small cold trout stream, where further movement was prevented by a hanging road culvert. An effort was made to treat all tributaries to this inlet upstream to the first obstruction. Bass were also observed 2 miles downstream but none were seen 5 miles downstream in a small pond on the outlet. Again, an effort was made to treat all tributaries to the outlet upstream to the first obstruction.

Several hundred bass were seen after the reclamation. Average length of bass killed was 5.0 inches with a range of 3.6 – 6.7 inches. Thousands of wild brook trout were killed in the Durepo Lake watershed during this reclamation. Observed trout sizes ranged from 2 to 14 inches. Plantings of Kennebago strain hatchery trout will now be required to support the trout fishery until it can be supported by natural reproduction.

Fisheries Habitat Restoration Efforts Underway in Maine

Forrest Bonney

Several habitat restoration projects are in the planning or execution stage throughout Maine. Most involve the restoration of stream habitat, though one lake project is underway.

In northern Maine, Fisheries Biologist Frank Frost is leading the effort to restore a brook trout pond that was drained and mined for marl for three decades. The Maine Department of Inland Fisheries and Wildlife bought the land, which includes the former Nadeau Pond, in 2000. The project involves construction of an outlet dam to restore water level. The completed pond will be 20 acres (8 ha) in size and will have a shore-fishing area, a public launch site, and a parking area. Rootwads were placed on the bottom to serve as fish cover and, in an effort to en-

courage natural reproduction, spawning-size substrate was placed over springs. Chemical reclamation will be undertaken to remove competing fish species after the dam is built but before it is filled. The pond is located in eastern Aroostook County and will provide additional fishing opportunity for several nearby population centers.

In western Maine, several stream habitat restoration projects are in the planning stage. Detailed streams surveys indicate that many of the rivers had reaches that were entrenched, overwidened, lacked pools, or had excessive rates of sediment transport. It is likely that degradation goes back to log-driving days. Lack of pools that serve as adult brook trout habitat is a limiting factor in providing quality habitat in many of these rivers. Several projects have been funded and are scheduled to be implemented in the next year or two. As an example, grade control structures will be installed in the Cupsuptic River in the Rangeley area to arrest excessive sediment transport associated with an entrenched reach at the site of an abandoned log-driving dam. The sediment has filled in downstream pools; we hope that once the sediment source is stabilized, pool volume will be increased through scour.

Finally, we hope to increase public awareness of river morphology by sponsoring two workshops in Maine in 2002. An interagency workgroup has scheduled introductory and intermediate river morphology sessions to acquaint Maine policymakers and regulators with the principles of river function and responsible restoration techniques.

Maine Coop Fish and Wildlife Research Unit Update

John R. Moring

Assistant Leader of Fisheries

Maine Cooperative Fish and Wildlife Research Unit

Department of Biological Sciences

University of Maine

5751 Murray Hall

Orono, Maine 04469

Here is an update on student and other projects at the Maine Cooperative Fish and Wildlife Research Unit:

Sharon Fleming (B.S., Salem State) is working on her M.S. in zoology. She is comparing several alternative population enumeration techniques for Atlantic salmon as possible replacements for electrofishing. She is working closely with Joan Trial and Ken Beland of the Maine Atlantic Salmon Commission and did preliminary work in 2001. Her target graduation date is May 2003.

Emily Gaenzle (B.S., Colgate) is working on her M.S. in Ecology and Environmental Science. She is studying stream geomorphology as a potential predictor of fish

community structure. She has completed all field work and classes and expects to graduate in May 2002.

Amy Gullo (B.S., Binghamton) is working on her M.S. in Zoology in a study of the effects of rockweed harvesting on marine fishes. She has completed all field work and classes and expects to graduate in May 2002.

Merry Gallagher (B.S., SUNY-Albany; M.S., Maine) is completing her Ph.D. on movements and habitat associations of American eels in freshwater ponds. She recently was appointed a fishery research biologist with the Maine Department of Inland Fisheries and Wildlife in Bangor and only has her thesis to complete.

The Unit recently completed a multi-year inventory of freshwater fishes at Acadia National Park, with the final report submitted in September. The results were presented at conferences in Maine, New York, and Arizona in 2001, and a check list paper was published in *Northeastern Naturalist*. The Unit is currently engaged in a two-year inventory of tidepool and estuarine fishes at the Park, which should be completed at the end of 2002.

NEW BRUNSWICK



New Brunswick Electrofishing Course

Kathryn Collet
Fish Habitat Biologist
NBDNRE, Fish & Wildlife Branch
P.O. Box 6000
Fredericton, NB
E3B 5H1
(506) 453-2440
Fax: (506) 453-6699
e-mail: kathryn.collet@gnb.ca

A 4-day comprehensive electrofishing course entitled "Principles and Techniques of Electrofishing" was held in

Fredericton, New Brunswick October 2-5, 2001. The course was developed by the US National Conservation Training Center and delivered by Dr. Jim Reynolds, Professor of Fisheries, University of Alaska Fairbanks (emeritus) and Mr. Larry Kolz, Electrical Engineer



(USFW/USDA, retired). These two instructors are certainly on the cutting edge of electrofishing theory and practice. There were 29 participants from various agencies including NB and PEI provincial Fish & Wildlife agencies, Federal Fisheries & Oceans, Universities, Forest Companies, NGOs and private consultants. The course was intensive and focused not on electrofishing field tech-



niques but rather on applying knowledge of electric circuit and field theory in an effort to increase efficiency and standardization of electrofishing operations and to minimize electrofishing-induced fish injury. A half-day field trip allowed participants to test their equipment with a number of metering devices to determine the efficiency of their units. Overall, the course was a tremendous learning experience and received many positive reviews from participants. And, in typical Maritime fashion - we had a



good time too!

NEW HAMPSHIRE

Protecting the Tip of New Hampshire

Scott Decker

If all goes well in the coming months, 171,000 acres of forest in the towns of Pittsburg, Clarksville, and Stewartstown will be protected from development and guaranteed for permanent public access. The land is located in the far northern reaches of New Hampshire and forms the headwaters to the Connecticut River, where water spills off the U.S.- Canada border and creates remarkable trout fishing, where hunting and snowmobiling are well-established ways of life, and where you're almost guaranteed to see a moose.

A combination of federal, state, and private funding sources will be used to purchase the land from current owner International Paper, the largest producer of paper goods in the world. The Trust for Public Lands is pur-

chasing the land from International Paper and will place a conservation easement on the property. The easement will then be purchased by the state with a mix of state and federal funds. The Trust is also carving out two parcels totaling 25,000 acres, which will be owned by the NH Fish and Game Department and be managed as "natural areas". The remaining 146,500 acres will be purchased by Lyme Timber Co., a NH-based timber investment company who will continue to manage the lands for hardwood and softwood timber.

It's a situation where everyone wins. Timber harvesting will continue to support local economies, traditional recreational uses of the land will be maintained, and ecologically sensitive areas will be permanently protected.

New Fisheries Biologist on Board

The Inland Fisheries Division recently hired Gabe Gries to fill the regional fisheries biologist position located in Keene, NH. The position was formerly occupied by Ken Sprinkle, who moved on to the US Fish and Wildlife Service's Central New England Fisheries Resource Center in Nashua, NH. Gabe grew up in northern New Hampshire and attended the University of Vermont, graduating with a B.S. in fisheries biology. He went on to graduate from the University of Massachusetts with a M.S. in fisheries biology. His thesis examined juvenile Atlantic salmon and brook trout behavior and habitat use. Gabe has worked for the US Environmental Protection Agency and as a fisheries technician for the State of Connecticut. Prior to coming to work for NH Fish and Game, he was a fish research ecologist with the US Geological Survey, Conte Anadromous Fish Research Center working primarily with juvenile Atlantic salmon. He has also authored or co-authored several papers on Atlantic salmon. Recently, Gabe chaired a session on PIT tagging at the last AIC annual meeting that was held at Lake Winnepesaukee, NH. Gabe will be Fish and Game's warm water fisheries program leader as well as serving on the Connecticut River Atlantic Salmon Commission Technical Committee in ad-

**First call for papers!
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dition to his duties as regional biologist. **Contact info: Gabe Gries, New Hampshire Fish and Game Region 4, 25 State Route 9, Keene, NH 03431, Phone: 603-352-9669, Fax: 603-352-8798, Email: ggries@starband.net**

NOVA SCOTIA

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Declines in abundance of Atlantic salmon, closures of many fisheries, and the recognition that many stocks are either "endangered" or "threatened," dictated a new focus for DFO Maritimes Region's three hatcheries. That focus is the development and maintenance of living gene banks. This is done through captive production of broodstock, DNA-based selected matings to maximize genetic variability, early stocking of their progeny to maximize natural selection in freshwater, and later collection of older parr for renewed production of broodstock. This circumvents the current harsh marine conditions affecting the salmon's normal life history, and maximizes their potential for recovery once conditions for survival improve. The new focus cuts deeply into capacity for smolt and juvenile stocking for "enhancement of fisheries." This has prompted DFO Science Branch to rename facilities at Mactaquac near Fredericton, NB, Coldbrook, NS and Mersey, near Liverpool NS as "Biodiversity Centers."

VERMONT

Going Wild on Broodstocks – Hatchery Management Implications

Tom Jones and Kevin Kelsey*

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The use of feral fish for broodstocks offers exciting potential for fisheries programs throughout the nation. The Vermont Fish and Wildlife Department has initiated a new program evaluating a new strain of Sebago Landlocked Atlantic Salmon originally obtained from the State of Maine. Sebago salmon are being utilized as a broodstock to produce fry and smolt for Vermont tributaries of Lake Champlain.

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The use of these free ranging parents offers the inherent risk of introducing fish pathogens and resultant disease to the existing cultured populations of Salmonids held at the Ed Weed Fish Culture Station in Grand Isle Vermont. To minimize this risk, culture and fish health personnel have developed an isolation program to safely collect, transport, hold, spawn, and incubate feral salmon eggs.

Cornerstone to this program is a combination of preventative techniques collectively called **Biosecurity**. Biosecurity by definition refers to: all practical common sense steps that can be taken to prevent and reduce the risks of disease transmission of disease organisms. Biosecurity does not guarantee that a disease organism will not transfer to an existing "pathogen-free site" but it reduces the number of disease organisms in the fish's environment and/or reduces the risk of contaminating it. "An ounce of prevention is far better than a pound of cure" is an applicable adage for biosecurity. This is not a new term in fish culture, and its practice is expected of all employees on a day-to-day basis on any fish culture station.

Culture and fish health personnel are most concerned about those fish pathogens that are known to be vertically transmitted from parent to progeny through the egg. Infectious Pancreatic Necrosis (virus) and *Renibacterium salmoninarum* (bacteria) are just a few examples. Once introduced into a facility/fishery, these diseases can have negative impacts to fish stocks.

When collecting gametes from feral fish, isolation biosecurity is practiced throughout all phases of the spawning process. Some of the measures taken are: disinfection of the vent area of contributing parents, dedicated equipment for each of the three sectors of the spawning process 1) gamete collection and fertilization, 2) water hardening and surface disinfection of fertilized eggs, and 3) enumeration and incubation. Movement of personnel between sectors requires rigorous disinfection along with changing outerwear as necessary. Any breeches between or within sectors needs to be identified during the spawning process to track technique associated with every pooled eggs lot for reference at the time diagnostic work is complete.

All gamete-contributing parents are examined for clinical signs of disease and tested for vertically transmitted fish pathogens. Once a clean bill of health has been issued, the resulting eyed eggs can be incorporated into the main fish culture production area!



National Chapter News

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NEW RELEASES FROM AFS

Reflections: A Photographic History of Fisheries and the American Fisheries Society in North America by Christine M. Moffitt

This multimedia and CD collection chronicles the 131-year history of the American Fisheries Society (AFS), while tracing the changes in the social and geographical history of North America, providing a visual and audio exploration that allows the reader and viewer to reflect on past challenges, successes, and failures of fisheries and AFS, to look honestly at the present, and to renew a vision for the future.

Stock Number: 550.43
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Behavioral Technologies for Fish Guidance Symposium
26, Charles C. Coutant, editor

This proceedings on the Symposium, Behavioral Technologies for Fish Guidance, held August 30-31, 1999 in Charlotte, North Carolina, fills the need for peer-reviewed documentation of the results of recent research and demonstration experiments with several technologies, fish species, and locations. New concepts in fish guidance, as well as guidelines for the development of behavioral guidance technologies and regulatory agency perspectives on the use of these technologies, are also presented. In addition to its technical content, the book includes materials and information currently available only in difficult-to-obtain agency reports.

Stock Number: 540.26
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Rotenone in Fisheries: Are the Rewards Worth the Risks? Trends in Fisheries Science and Management, Vol. 1, Richard L. Cailteux, Leo DeMong, Brian J. Finlayson, William Horton, William McClay, Rosalie A. Schnick,

and Charlie Thompson, editors

This first volume in a new series covers a variety of topics, including stewardship and use policies, environmental safety issues, and several case histories from across the United States. This important resource will increase the understanding of fish toxicants and further promote the safe and effective use of rotenone.

Stock Number: 550.42
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Don't forget to browse featured articles from the latest issue of FISHERIES magazine at: www.fisheries.org/fisheries/fishery.shtml

The AFS Meritorious Service Award Committee is seeking nominations (deadline May 4th). This award recognizes unswerving loyalty, dedication, and meritorious service to the Society over a long period of time, and exceptional commitment to the programs, ideals, objectives, and long-term goals of AFS.

Nomination packages should be sent to John Boreman, Chair (Northeast Fisheries Science Center, NMFS, 166 Water Street, Woods Hole, MA 02543), and should include:

Name and address of nominee
 Professional Field
 Date of Membership in AFS
 AFS Elective Offices held and committee appointments for Chapter, Division, Section, Parent Society
 Outstanding examples of meritorious commitment
 Outstanding examples of meritorious achievement
 Name of nominator
 Biographical sketch for nominee
 Any supporting letters

Final Call for Papers for the International Congress on the Biology of Fish

This is the *Final Call for Papers* for the International Congress on the Biology of Fish, to be held in Vancouver, Canada, July 21-26, 2002, sponsored by AFS Physiology Section. The deadline for title submissions to the Symposium is March 15, 2002. All the details about the Congress, including Tradeshow information and special deals for students, can be found on the Website: www.fishbiologycongress.org

We hope to see you in July in sunny Vancouver.
 Don MacKinlay
 Congress Chair,
 Fisheries & Oceans Canada

Editor's Notes: Newsletter Available on the Website

Those of you that would like to save the society paper and postage, please let Scott Decker know you want the e-version of the newsletter. Scott will remove your name from the paper mailing list. Currently the newsletter costs over US\$1/issue to print and mail. Shawn Good sends out an e-mail notification to all AIC members when the newsletter has been uploaded to the AIC website. All you have to do is click on the current newsletter and download it. The newsletter is in an Adobe Acrobat file format, so it can be viewed and printed easily.

Many thanks to those of you who have submitted articles and reviews. The newsletter is our primary outlet for sharing information with those members who cannot attend our annual meeting, so it is important to spread the word about projects happening in your region.

As a reminder, I take submissions anytime throughout the year. You can contact me via e-mail: scott.covington@anrmail.anr.state.vt.us or the old fashioned way: (802) 485-7566

Getting Activated: Professionalism and the AIC

Does your definition of professionalism include contributing to fisheries science by staying active in local, regional or national AFS chapters, attending public forums or in general, being a spokesperson for aquatic resources? It's easy to get into a regular routine, perform your normal (overworked/underpaid/understaffed) work, maybe attend a meeting or two, and leave running the AIC "business" to a few individuals. Becoming more involved with the Chapter is easy and rewarding. It can vary from helping to arrange future meetings, soliciting prizes for raffles (not an easy job during a rough-and-tumble economy), or volunteering to oversee a committee (may I suggest Bylaw Revisions?). The list is endless.

The easiest way to participate is by attending the regional AIC Annual Meeting. You don't have to present a paper or poster, but come and share your ideas, learn about new approaches and technology, meet new people, become involved in the governing of this group. If you'd like to help out more, you can begin by contacting the president or members of his cabinet and ask what needs to be done. As a member, everyone has the *opportunity* to increase their involvement.

I strongly encourage all members to think about professionalism and why it is you went into this field. It certainly wasn't for the monetary awards that awaited you. Become involved. You will find you get back far more than you put in.

AIC Bibliography

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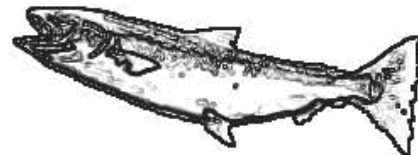
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Meeting registration fee: (payable to AIC-AFS)

\$20. Cdn. (Members) (\$25. after Aug. 31st) Membership # _____

\$25. Cdn. (Non-members) (\$30. After Aug. 31st)

Monday night "Cajun" Cruise (optional; payable on arrival) YES NO

Board the "Cajun" (a replica "Mississippi River Boat") for a 2-2¹/₂ hour cruise on the Acadian trail. Music, licensed. (Cost estimated ~ \$15. Cdn.)

Send to:

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First Call for Papers!
AIC Annual Meeting, September 22-24
Tracadie-Sheila, New Brunswick



Atlantic International Chapter Newsletter

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