

# NEWSLETTER

of the  
SOUTHERN ONTARIO CHAPTER  
AMERICAN FISHERIES SOCIETY

President - Les Stanfield, MNR-Maple  
President-elect - Ken Harris, MNR-White Lake FCS  
Secretary - Henk Rietveld, MNR-Huntsville  
Treasurer - Geza Gaspardy, Credit Valley Cons. Auth.

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Editor - Hal Schraeder, MNR-Aylmer

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## -- President's Corner -- by Les Stanfield

I am honoured to be writing this, my first official column as your Chapter President. Happily, I can report that the Chapter is off to a tremendous start as a result of the support from all of its members. Our first workshop and meeting was a great success and I would like to extend my gratitude to all those who participated, especially the speakers: Janet Elner, Ray Biette, John Johnson, Jack Armstrong, Geza Gaspardy, Rejean Anthon, Gary Allen, Jennifer Harker, John Maher, Steve Connolly and Wayne Carey. A special thanks goes out to Tom Whillans who did an excellent job as moderator.

The workshop was very informative and provided an opportunity for many old and new acquaintances to be affirmed. The mandate of the Chapter - to facilitate communication among fisheries biologists - has been well established.

I was excited to recently hear one of our speakers, Rejean Anthon of the Federation of Ontario Cottage Association (FOCA) on CBC radio discussing the need for habitat protection along cottage fronts. We need more of this kind of publicity.

Steve Connolly of the City of Mississauga requested that the Chapter review a portion of the Waterfront Development Plan. This provided us an opportunity to comment directly on how this project may impact on the fishery.

For those of you that missed our inaugural meeting, Bob White gave us an inspiring address on what we can accomplish as members of AFS. His message was simply that AFS provides an ideal opportunity for fisheries biologists to work together to better the resource. To be effective we must get involved. The strength of the Chapter comes its number of active members and its diversity of its affiliations. If we Canadians want to be more effective in AFS, we must communicate what we want. We can start by making sure we vote when asked and by returning our Canadian Concerns questionnaires. If we don't get involved it will be useless complaining later on.

Bob also talked about the need for AFS to take a leading role in informing the public. As we well know, if the public does not support a program it will likely fail. As non-partisan professionals we are ideally positioned to help the public better understand the issues and concerns of fisheries managers. The question that we must answer is: How do we best accomplish this? We are off to a good start, I think, in that we have already cooperated with FOCA, Trout Unlimited, and The Black Creek Project, but we can do a lot more. I urge all of you to inform the public and your colleagues of our existence, mandate, and willingness to work with interested groups to ensure the long term protection of fisheries resources.

The primary outcome of the workshop was the highlighting of the need for

the Chapter to work towards a more effective means to protect fish habitat from development. If you are interested in assisting with this effort I encourage you to contact Tom Whillans at 705-748-1389.

We all recognize that there is an inadequate transfer of information on mitigation techniques to our people in the trenches. As a result, the Chapter will be sponsoring a workshop to train planners, developers, engineers, as well as our members, on the latest techniques. It should be very informative.

The Chapter is off to a fast start. We're already involved in a wide range of activities, and as you will see from reading further this is going to increase. With government increasing their commitment to public participation there appears to be an even greater opportunity for the Chapter to undertake an effective role in improving the management of Ontario's fisheries resources.

If you are aware of an emerging issue that the Chapter could help facilitate a solution to, please inform the executive.

Similarly, if you are interested in one of the committees just contact the chairperson and inform them. By the way, we are still looking for someone to chair the Awards committee. This group will be charged with suggesting awards the Chapter should give, and criteria for selection and nomination of candidates. This is important for the Chapter and something I would personally like to see in place soon so that presentations may be made at our next meeting. If you think there is enough interest to form any other committee please give me a call.

On a final note, I am pleased to report that I will be travelling to Alaska to represent the Chapter at the annual AFS meeting. If anyone else is going could you please give me a call.

Have a nice summer, eh !!!

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*This issue of the Newsletter is being printed and distributed courtesy of the Fisheries and Environmental Assessment Section of UMA Engineering Ltd. UMA is a multi-disciplinary consulting firm with Ontario offices in Mississauga, Ottawa and London. The firm provides services in fisheries and aquaculture and environmental assessment to public and private sector clients.*

- ed. note: The following is a transcript of a June 19, 1989 letter sent to Dale Henry, Ministry of Environment MISA Office - Municipal Sector, 7th Floor - 1 St. Clair Ave. West, Toronto, Ontario, M4V 1K6, by our Chapter President, Les Stanfield.

Dear Dale:

The American Fisheries Society, a scientific and professional organization with 7,500 members across North America and Europe is dedicated to strengthening the fisheries profession, advancing fisheries science, and conserving fisheries resources throughout the world. As indicated in our telephone conversation of June 14, the Southern Ontario Chapter of the American Fisheries Society is very interested in reviewing and providing comments to you on the draft document, Guidelines for Stormwater Management.

With the advent of the Canada/Ontario Fisheries Agreement and the new emphasis on No-Net Loss/Net Gain for fisheries habitat through the Federal Fisheries Act, our organization and the various professionals in our organization are keenly interested in providing constructive input to these

new guidelines. We hope that these guidelines will help fisheries professionals maintain and improve fisheries habitat in the face of development. Some of our chapter members have considerable expertise in improving fisheries habitat through stormwater management and are well aware of the work that has been done in the USA to this end (eg. the state-of-the-art work in the State of Maryland). It is our opinion that environmentally sound sustainable economic development is possible and can be bio-engineered through urban development ... the technology is available within North America and has been tested successfully in both Kitchener and Waterloo, Ontario.

With the above comments in mind we believe that our input can help to ensure that these new guidelines reflect the state-of-the-art for stormwater management and are useful and suitable for achieving the objectives of water quality and the Federal Fisheries Act.

Thank you for your consideration of this request.

Sincerely,  
L.W. Stanfield

- ed. note: The following is a transcript of Les' June 14, 1988 correspondence with Stephen Connolly, Waterfront Planner, City of Mississauga, Planning and Building Dept., 300 City Centre Drive, Mississauga, Ontario, L5B 3C1.

Dear Stephen:

It is very encouraging to see the City of Mississauga actively involved in the management of the fisheries at its doorstep. Our chapter was very pleased when you requested that we review the Aquatic Habitat section of the Mississauga waterfront plan. Co-operative management is the only way that we can ensure that the extensive changes will occur to reduce our impacts on the environment from poor development techniques.

I hope you find the comments useful. Unfortunately since this section does not include any policy statements or directions as to how the plan is to be implemented our comments are limited to the accuracy of the facts within your document. We would be pleased to review the implementation plan if you desire.

In general the report is well written and the author should be commended for his understanding of the complexities of the aquatic ecosystem and for proposing the ecosystems approach of management. There are a few areas that we feel should be strengthened to better reflect the importance and urgency of protecting habitat.

#### Specific Comments

##### Rivers and Streams:

There are a number of impacts to streams which can result from poorly planned urbanization. The potential damages from increased run-off or sediment load, pollution, loss of groundwater and riparian vegetation should be stressed. It could also be emphasized that compatible development can occur in many areas provided the appropriate technologies are used so as to ensure no net loss of habitat. The successful reintroduction of the atlantic salmon will require an overall improvement in the water quality in the Credit River, particularly as the global warming trend occurs. This will require very strong

development controls to ensure the integrity of the ecosystem is maintained. Also note that the first stocking of atlantic salmon occurred in 1988.

#### Nearshore Waters:

Although it is the salmon fishery that has made Mississauga famous, we feel that the importance of non-salmonid species must be emphasized. The habitat supporting the forage base needs to be better understood and protected. The health of the forage base will have as much or more of an impact on the success of the Lake Ontario rehabilitation program. There is a myriad of other species which are providing angling opportunities to specific publics in the nearshore and wetland areas. These non-salmonid 'game-fish' provide opportunities for casual anglers to partake in the recreational fishery. There is an excellent opportunity for the city to expand this fishery through community events such as urban angling weeks, day trips, outings, etcetera.

#### Conclusions

The long term stability of the Lake Ontario fish community will depend on successfully re-establishing self-sustaining salmonids. Many of these species require high quality rivers to spawn and spend their early life stages in. The Credit River can be one of the key rivers to the success of these efforts. Rehabilitating the Lake Ontario community will require a lot of work from all of the groups around the basin, however with the cooperation of agencies like the City of Mississauga and the support of the public it can be achieved.

I remind you that expertise is available to assist the City with mitigation and rehabilitation techniques, and fisheries assessment methodologies should you require it.

Thank you for allowing us this opportunity to comment on this worthwhile paper. If you have any questions regarding the comments please refer them to me. I look forward to seeing you again at our fall workshop on habitat mitigation techniques.

Sincerely,  
L.W. Stanfield

#### -- IMPORTANT NOTICE --

The need to protect fish habitat from development activities was discussed at our first Chapter meeting last spring at Dorset. Dave Bell (MNR) and Ken Dance (UMA) proposed that a workshop be held to better inform those involved with development or protection of aquatic habitat about mitigation techniques. Since the workshop, several Chapter members have discussed this idea on an ad hoc basis. This has resulted in the striking a Habitat Protection Committee, charged with encouraging the dissemination of information about habitat protection. Geza Gaspardy (CVCA) has been appointed chairperson. So far, membership on the committee is comprised of: Dave Bell, Ken Dance, Jack Imhof (MNR), Dave McLeish (MNR), and Les Stanfield (MNR). Other Chapter members are welcome. The committee is planning to conduct a workshop in the spring of 1990 to address groundwater recharge through storm water management techniques.

*If you would like to help out, please contact Geza at (416) 670-1615 (Credit Valley Conservation Authority).*

1st ANNUAL AFS SOUTHERN ONTARIO CHAPTER WORKSHOP  
by Ken Harris, President-Elect

On behalf of the Chapter executive and other organizers of our inaugural professional workshop, I would like to extend our sincerest thanks to all those who participated in the event. On the whole, I feel the Chapter represented itself admirably in both numerical turnout (approximately 60) and the level of participation in the topic. I'm sure we all noticed a few rough edges and loose ends here and there, but then again it was our first try!

This first workshop was successful in many ways, and certainly exceeded the most optimistic expectations of your EXCOM. The Southern Ontario Chapter can be proud in having brought forth genuine discussion and critical examination of one of our regions' most contentious fisheries issues -- the protection and preservation of habitat in rapidly developing southern Ontario. I'm sure that many of the assembled members were somewhat surprised at the inter-agency complexity of the issue, with components falling under the federal government, four or five provincial government organizations, and assisted by numerous public interest groups. Many of our members who do not directly work in this field were quite surprised at the level of consideration and involvement in the issue demonstrated by such non-traditional agencies as the Ontario Ministry of Transportation and Ontario Hydro. Our invited speakers, I feel, did an admirable job in relating their organizations' role, outlook and needs regarding more proactive habitat protection. One obvious conclusion of the session is that although all of these agencies and groups are responsive to the need for fisheries habitat protection, and in many ways are anxious to provide protection, we still seem to be lacking a coordinating influence for truly proactive habitat protection. This should be a goal of the professionals within our Chapter.

Incidentally, I'm sure many attendees noticed that our rather lengthy list of speakers made for a somewhat over-ambitious, marathon session, and some of our speakers were unfortunately rushed in their presentation. Despite the obvious problems this presented, however, this was actually a symptom of progress in our Chapter. When the EXCOM originally contacted potential speakers, we anticipated that, as usually occurs, a certain percentage would participate, while others would not. It should be noted with some satisfaction that all of our contacted organizations considered our Chapter and its Workshop vital enough to warrant their participation even at what was for most people a very busy period. Consequently, we wound up with a few more speakers than originally anticipated, but for a very good reason. This, I feel, bodes well for the future of the Chapter.

Overall, the AFS Southern Ontario Chapter First Annual Workshop proved that our organization can bring together professionals in an independent forum, to discuss major issues of the day as well as long-term direction of our profession. In that this is the primary goal of our Chapter, I feel justified in citing this event as a major step forward in the development of our Chapter as a true professional society.

MINUTES OF THE FIRST ANNUAL MEETING OF THE SOUTHERN CHAPTER - AFS  
by Henk Rietveld

The meeting was called to order by President Les Stanfield at 7:46 PM.

1. Approval of the agenda - approved.
2. Introductions - EXCOM members, and Bob White, President of the Parent Society.
3. Call for Quorum - 40 people present.
4. Business Items :
  - a) It was moved to have the Parent Society collect chapter dues. 13 for; 10 against. Passed.
  - b) Membership report - Dave McLeish
    - 103 paid up members
    - memberships expire in December, in line with Parent Society dues
    - 2-tiered dues structure exists: \$5. for Parent Society members, and \$10. for a 1-year trial membership with no voting, EXCOM, or committee membership privileges.
  - c) Election of Officers for 1989-90
    - term to run from 1 September 1989 to 31 August 1990
    - current (*pro tem*) EXCOM elected by acclamation with Geza Gaspardy added as Treasurer. The officers are:
      - President - Les Stanfield
      - Pres-elect - Ken Harris
      - Secretary - Henk Rietveld
      - Treasurer - Geza Gaspardy
  - d) Committee Appointments:
    - i) Membership - Dave McLeish
    - ii) Fish Culture - Gary Chapman
    - iii) Computer Users - Jim Reckahn
    - iv) Continuing Education - Tom Whillans/Mike Jones
  - e) Bylaws - carried as presented, 1 dissenter.
  - f) Chapter Logo:

Suggestions by the membership will be entertained by the EXCOM and presented to the membership through the Newsletter for final selection/approval.
  - g) Next Meeting:

January/February 1990, tentatively at the Frost Centre, Dorset.

## EXCOM MEETING - 24 JULY 1989

The EXCOM met at President Les's house to discuss correspondence and arrangements for the upcoming technical sessions.

We discussed the implications of a Wallop-Breaux type excise tax on sporting equipment, and decided to put the issue to an open vote of the membership for discussion, or to have it shot down. A formal vote for discussion (yea or nay) will, therefore, be solicited in the next Newsletter. In the meantime, discussions will also be held with the other Canadian chapters.

There are no further developments to report in the matter of selecting a Chapter logo.

Automatic Chapter dues collection with Parent Society dues collection has been approved through a letter from Paul Brouha, Deputy Director of AFS.

Response to the opportunity to provide input to MOE on Stormwater Management proposals has been poor. The EXCOM will pursue this.

The EXCOM decided to subsidize Les' trip to the annual AFS meeting in Alaska so that he can represent the Chapter at the AFS business meeting. The total cost of his trip will amount to about US\$300. and is being largely covered by the Province.

The next Annual Meeting has tentatively scheduled for January 11-12, 1990, at the Leslie M. Frost Natural Resources Centre near Dorset, Ontario. The theme of this year's meeting and workshop is, FISH CULTURE AS A MANAGEMENT TOOL.

### CALL FOR PAPERS

The EXCOM of the Southern Ontario Chapter of the American Fisheries Society is soliciting contributed papers and poster session contributions for its upcoming workshop in January, 1990. If you wish to contribute a paper, please send the title and a short abstract to:

*Ken Harris, c/o White Lake Fish Culture Station, RR 2, Sharbot Lake, Ontario, K0H 2P0*

The cost of the workshop to participants will be in the range \$90-100. (for meals, accommodations, and registration). Proceedings will be prepared and distributed to participants.

### CANADIAN CONCERNS COMMITTEE UPDATE

Hopefully you completed and returned your questionnaires. They have already been collated by the co-chairpeople.

The response rate was about 40% across Canada. Look for published results, and (hopefully) some action from the Parent Society on outstanding issues.

The information contained in the surveys has been analyzed and will be published in the our next Newsletter.

## IS A FISH HABITAT POLICY STATEMENT REQUIRED?

by Tom Whillans

### Background

The theme of the 1st Annual Workshop of the Southern Ontario Chapter of AFS was *Fish Habitat Protection Through Co-operation*. The formal presentations and discussion on the first day of the workshop led to a general recognition of the key role of the Planning Act in guiding development in Ontario. It is the main legislation that anticipates routine land-use pressures on fish habitat. (The Environmental Assessment Act is not directed at routine pressures and the Fisheries Act is both reactionary and awkward for fish habitat questions). Also recognized was the failure of conventional planning practices in protecting fish habitat. The failure is apparently attributable to the perception of municipal planning bodies that the Planning Act is not a mandate to protect fish habitat and the related shortage of planners with fisheries expertise or fishery managers with planning expertise.

One partial remedy that was suggested at the workshop was to append a Fish Habitat Policy Statement to the Planning Act. Such statements have been drafted for aggregates and wetlands. A statement would serve to direct attention of municipal planners to concerns about fish habitat and would necessitate mobilization of resources for addressing such concerns. The second day of the workshop thus involved a discussion of the ideal nature and implementation of a policy statement on fish habitat. Here are some of the thoughts that emerged from that discussion.

### Intent and Context of a Policy Statement

The underlying intent of a policy statement should be to preserve the ecological integrity of fish habitat. This means preserving not only the structure, but more important, the function of fish habitat. The Planning Act is only one of a menu of institutional mechanisms that are necessary to protect habitat. Its role should thus be clearly identified vis-a-vis those of the Department of Fisheries and Oceans' *Policy for the Management of Fish Habitat*, the Ministry of Natural Resources' updated *Strategic Plan for Ontario Fisheries*, the *Canada-Ontario Fisheries Agreement*, and other initiatives.

### Detailed Content of a Policy Statement

The Policy Statement should provide an unambiguous definition of fish habitat. This should be an operational definition that provides guidance on measurement of habitat quality or suitability for fish. Protection of fish habitat most often involves ensuring that adjacent land-uses are compatible. Compatibility cannot be evaluated without measurement of habitat quality. Enforcement of the Planning Act is also dependent upon such measures and merits special attention in a Policy Statement.

One of the current principles being espoused with respect to fish habitat protection is that of no net loss of habitat. This leads naturally to the development of procedures for habitat substitution and rehabilitation. A



Policy Statement should indicate acceptable procedures. Again, measurement of habitat quality is essential.

Poor inter-jurisdictional arrangements can lead to the neglect of a resource. In the case of fish habitat, where jurisdiction is divided among several levels of government, the responsibilities for protection should be specified clearly. Much habitat is owned privately. A Policy Statement should identify incentives for good private stewardship and public involvement in government deliberations about habitat.

Government and private commitment to fish habitat must be preceded by an understanding of habitat and its importance. This suggests that the Ministry of Natural Resources could usefully mount a program for educating both government planners and private persons. A Policy Statement could verify this need.

Finally, a Policy Statement should include guidelines for evaluating success of habitat protection measures. In effect, performance audits should be conducted on implementers of the Policy Statement.

### Questions Remaining

The AFS workshop concluded with a commitment to bring to the Chapter members the question of the need for a Policy Statement on fish habitat and the mechanisms by which its drafting could be stimulated (if it is thought to be needed).

The Ministry of Natural Resources is apparently considering this question internally, but has not yet come to any conclusions. One of the problems is that the Ministry of Municipal Affairs is re-assessing the future of natural resource-focused Policy Statements. It is reluctant to process a proliferation of these. An alternative that has been receiving some attention has been a Policy Statement that would address all natural resources. This would supersede existing statements.

*Should the Southern Ontario Chapter of AFS now begin preparation of a fuller argument for the need for and content of a fish habitat Policy Statement? This could be documented and presented to the relevant Ministries to stimulate further action.*

*Should the Chapter simply express concern about problems with the existing land-use planning processes?*

*Is a natural resources omnibus Policy Statement advisable?*

*Would other activities, perhaps educational, make better use of Chapter talents?*

Please offer your opinions to:

*Tom Whillans, Environmental and Resource Studies, Trent University, Peterborough, Ontario, K9J 7B8, (705) 748-1389 (office) or (705) 748-1261,*

or to any of the Chapter executive.

## REHAB CORNER

by: Al Murray and Jon Bisset

At the first Southern Ontario Chapter workshop, the drive and enthusiasm of those in attendance encouraged the formation of *Rehab Corner*. During the past few years, fisheries rehabilitation (stream and lake) has become an important part of fisheries management.

Changing land use practices, increasing development pressure, and habitat loss over the past century have diminished the quality and productivity of our aquatic systems. An increase in public awareness and involvement on resource management together with the direction of Federal Fisheries policy toward *no net loss - net gain* of habitat has moved fisheries habitat rehab to the forefront of MNR policy, instead of a reaction to public demand.

With an increasing number of cutbacks and decreases in funding, cooperative resource management has been an important part of rehab. The success of the *Community Fisheries Involvement Program* (CFIP) is just one indicator of this.

Having been involved with several projects on a volunteer and professional basis, we felt there was a need for a forum/sounding board to provide professionals/interest groups with an opportunity to exchange ideas. Hopefully, *Rehab Corner* will fill that niche.

With *Rehab Corner* we hope to spotlight projects, both successful and unsuccessful, and to encourage cooperation and the implementation of new rehab techniques. Hopefully, people will be able to answer questions about projects you have in mind, or provide useful hints/suggestions. In addition, we would like to indicate the types of projects now being carried out by different groups/organizations.

Our preferences would be for projects being undertaken in Southern Ontario, or rehab workshops/seminars. However, any interesting innovative projects will be considered. A brief description of the project history, the project goals, methods, and results/follow up would be included.

Hopefully, *Rehab Corner* will provide a free exchange of ideas in an open forum, to keep people updated on the types of projects being carried out. In past, it has been difficult for groups to exchange ideas and information regarding rehab projects. *Rehab Corner* will give AFS members an opportunity to share their ideas with fisheries professionals and engineers regarding project design, implementation, and follow up.

This column should provide an educational mechanism for resource users and managers, to further develop an understanding of the processes involved in the management of and rehabilitation of our aquatic resources.

In conjunction with this column, we are preparing an invitational letter to District Offices, C.A.'s Angler Groups, to present their ideas in *Rehab Corner*. If you have a 'pet' project, we would like to hear from you. If you are planning a project, and would like to hear from people performing similar projects, let us know. This is your sounding board, to keep you up to date and informed. If you have any questions, comments, suggestions, please mail them to:

*Rehab Corner, c/o Al Murray, R.R. #1, Elora, Ontario, NOB 1S0.*

COMPUTER CORNER  
by Jim Reckahn

SOME TIPS ON SOFTWARE AND HARDWARE

One of the Parent Society's sections is the *American Fisheries Society Computer Users Section* (AFSCUS). It's a section well worth joining if only to get access to some useful but cheap computer programs.

As of May 1989, AFSCUS was offering 21 diskettes with 79 files or separate programs available for purchase by IBM users. There are an additional 14 programs for Apple computers. Costs are \$10 for the first IBM style disks and \$9 for each additional disk (\$5 if you supply a DSDD diskette). Apple software is \$10 a program. The following table gives a brief idea of what's available for IBM buffs.

Disk #	No. Files	Topics
1	8	Aquaculture, Bulletin Board Systems
2	5	Lotus statistics, Beverton & Holt, Bibliography of computer programs, stream models
3	2	Aquaculture
5	2	Habitat evaluation programs
6	2	Habitat evaluation programs
7	4	Utilities
8	1	File-Arc version 4.0 Buttonware
9	15	Utilities
10	2	Stock analysis, food and habitat preference
11	2	Communications
12	3	Communications
13	3	Catch-age analysis
16	1	Generalized age-structure population model
17	8	Management training simulation model
18	6	Utilities
19	2	Non-linear least squares, Ricker length-weight
20	3	Electrofishing analysis
21	3	Sebastes Bibliography
22	2	Sebastes Bibliography
23	3	Sebastes Bibliography
24	2	Sebastes Bibliography

n.b. - Disks # 4, 14, & 15 have been withdrawn

At present I can't give an evaluation of the programs. Anyone in the Southern Ontario Chapter who has tried any of them please let me know and I'll pass on your comments. The purpose of this column is to share knowledge and tips on how to get the most out of computers. The choices are nearly unlimited for software, hardware, and experiences. There is lots of local development within Ontario which we'll concentrate on in the next few newsletters. Let me know if you have something you'd like to share with your colleagues. Don't hold back on even the simplest programs, there are lots of people that only use 'canned' programs and have yet to enjoy the torture of trying to get a 'simple' program to calculate a test case correctly.

Send your contributions to:

Jim Reckahn, Fisheries Branch, Research Section, P.O. Box 5000, Maple, Ontario L6A 1S9.

### The Great White North

The Northwestern Ontario chapter is planning a joint meeting with the Minnesota chapter for mid March 1990. Topics under consideration for the workshop include, Cooperative Angler Surveys, Fisheries Assessment on Boundary Waters, Socioeconomic issues, and there will be a session for contributed papers. Anyone interested in more information should contact Al Dextrase at 807-934-2233.

Walter Momot and Connie Hartviksen have prepared a new book on the *Fishes of the Thunder Bay Area of Ontario*. It is a compilation of the latest information on all 82 resident species and includes 170 illustrations. Anyone that would like more information on this book are asked to call Walter at Lakehead University.

### Fish Culture Committee/Forum ?

Many of our Southern Ontario Chapter members are directly or indirectly involved in the field of fish culture. A number are the MNR staff who rear salmonids to help re-establish diminishing wild populations or to simply create a put/grow/take sport fishery (ie. chinook and coho salmon). Other members are the scientists, biologists and technicians who study these stocked fish to determine survival rates, input to a fishery, etc.

After glancing through the members list I noticed the chapter also has many members from a number of Universities, Ministry of the Environment, Ministry of Agriculture and Food, Ontario Hydro, Consultant Firms, and even a few private Fish Farmers. This is a very impressive group! However, there is one problem and that is how do we find out what everyone is doing?

It has been my experience from working in a university environment, with MOE, MNR and now the private sector, that a lack of communication exists between most of the above groups.

We would therefore like to initiate a fish culture committee/forum where individuals or groups can express their opinions on any topic which is related to fish culture. For example, your views on the new MOE guidelines (not a bad start), the new species list (just a dream?), the new wonder diet, or the new fad fish. Or if you have any ideas of how the committee could be more useful do not hesitate to inform us.

Let's give it an honest try with some initial letters from the individuals who requested a fish culture committee. All letters, notes, diagrams can be sent to:

Gary Chapman, c/o Cold Water Fisheries Inc., Box 249, Coldwater, Ontario L0K 1E0 (705) 686-7756, or Al Chamberlain, c/o S.S. Fleming College, Box 8000, Lindsay, Ontario K9V 4E6, (705) 324-9144.

## CONTINUING EDUCATION SUB-COMMITTEE

At the 1st annual meeting of the Southern Ontario Chapter, Tom Whillans and I agreed to co-chair a Continuing Education Sub-committee for our Chapter. Our first task is to find out what the membership sees as our greatest needs for continuing education opportunities that might be facilitated by the Chapter. To accomplish this we obviously need your input. Please take a few moments to complete the following questionnaire, and send your response to me or Tom.

1. Do you think the Southern Ontario Chapter should play a role in providing continuing education opportunities for its membership? \_\_\_\_\_
2. In which of the following areas would you like to have more opportunities for continuing education:

- Fisheries technical courses
  - \_\_\_ sampling methods
  - \_\_\_ survey techniques
  - \_\_\_ age and growth
  - \_\_\_ rehabilitation techniques
  - other \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_
- Fisheries/resource management courses
  - \_\_\_ experimental management
  - \_\_\_ management principles
  - \_\_\_ sustainable development
  - \_\_\_ conflict resolution
  - \_\_\_ environmental ethics
  - other \_\_\_\_\_
- Computer and statistics courses
  - \_\_\_ database/spreadsheet
  - \_\_\_ statistical analysis
  - \_\_\_ experimental design
  - \_\_\_ computer modelling
  - other \_\_\_\_\_
- Professional development courses
  - \_\_\_ communications skills
  - \_\_\_ time management
  - \_\_\_ effective leadership skills
  - \_\_\_ negotiation skills
  - other \_\_\_\_\_

Please feel free to add other course topics that interest you.

...over

3. Do you consider it important that the course have some sort of accreditation (i.e., through a university or college) (yes/no)?
4. The parent society (AFS) has a continuing education committee that offers endorsements for otherwise "non-accredited" courses. Do you feel such endorsement would be useful for courses you might take (yes/no)?
5. Training courses can be offered in a variety of formats. To some extent the appropriate format depends on the nature of the material being taught. In general, however, which of the following course formats do you feel would be appropriate for AFS-sponsored courses (you may check more than one).

- short (1-3 day), intensive sessions
- longer (1-2 week), intensive sessions
- periodic, semester length (e.g. 1-3 hours per week, for several weeks)
- correspondence courses

6. Do you have any other comments related to the chapter's role in providing continuing education opportunities for its membership?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Thanks for your ideas and support.

Michael Jones, OMNR  
Fisheries Research  
P.O. Box 5000  
Maple, Ontario  
L6A 1S9

(416)-832-7135

Tom Whillans  
Environmental and Resource  
Studies  
Trent University  
Peterborough, Ontario  
K9J 7B8

(705)-748-1389  
748-1261 (messages)

SO YOU THINK YOU KNOW EVERYTHING DEPARTMENT

We all know that a few anglers are simply closet entomologists. To satisfy the cravings of these special few, Jack Imhof (MNR) and Jay Passmore (Nine Mile Creek Chapter of the OSSF) compiled the following table years ago (SURPRISE, Jack):

INSECT HATCHES OF WINGHAM DISTRICT

<u>Season</u>	<u>Species</u>	<u>Fish Preference</u> (Bass-B) (Trout-T) (Salmon-S)	<u>Period of Hatch</u>	<u>Fly Recommended</u>
Mid Winter- Early Spring	**Fairy Shrimp ( <u>Eubbranchipus Vernalis</u> )	T	Jan-Mar	#8-#14 Amber Shrimp
Mid Winter- Early Spring	**Blood Worm (Chironomus)	T	Jan-Mar	#12-#16 Blood Worm
Mid-Winter- Early Spring	**Tiny Winter Blacks Stone Fly (Capniidae)	T	Jan-Mar	#16 Tiny Winter Blacks
Early Spring	**Early Black Stones (Taeniopterygidae)	T	Mar-May	#8-#14 Early Black Stones
Early Spring	**Early Brown Stones (Brachyptera)	T	Mar-May	#8-#14 Early Brown Stones
Early Spring	Blue-Winged Olives ( <u>Baetis</u> sp.)	T	Mid Apr- throughout season	#16-#18 Sulphur
	*Hendrickson's ( <u>Ephemerella subvaria</u> )	T	1st. week May-Mid May	#12-#14 Hendrickson nymph & dry
	Sulphur's ( <u>Ephemerella invaria</u> ) ( <u>Ephemerella rotunda</u> )	T	late May- early June	#16-#18 Sulphur
Mid Spring	Gray fox ( <u>Stenonema fuseum</u> )	T	late May- early June	#12-#14 Gray Fox nymph & dune

Mid Spring	*Brown Drake ( <u>Ephemera simulans</u> )	B,T	mid-late May	#8-#10 Brown Wulff Adams, etc. large nymphs
	*Dun Variant ( <u>Isonychia bicolor</u> )	B,T	early-mid June	#10-#12 Dun Variant plus claret nymph
Late Spring	*Cream Variant ( <u>Potomanthus album?</u> )	B,T	early June	#10 Cream Variant plus nymph
	Black Caddis ( <u>Chimera</u> sp.)	T	mid May	#16 Black Caddis dry-Henryville special
	**Medium Brown Stonefly ( <u>Isoperia signata</u> )	B	mid May - July	#6-#10 Brown Stonefly nymph
	**Little Yellow Stonefly ( <u>Alloperia caudata</u> )	T/B	May-Sept	#12-#14 Little Yellow Stoneflies
	Brown Sedge ( <u>Rhyacophila fuscata</u> )	T	late May- early June	#10-#12 Brown Caddis and pupae
	*Olive Caddis ( <u>Hydropsyche</u> sp.)	T	early June-July	#14-#16 Elk-hair Caddis & pupae
	*Golden Stonefly ( <u>Phasganophora capitata</u> )	B,T	early-mid June	#10-#12 Golden Stonefly dry & nymph
	*Large Stonefly ( <u>Parogentina media</u> )	B,T	early-mid June	#8-#10 Large Brown Stonefly dry & nymph
Early Summer	Summer Cahills ( <u>Stenonema</u> sp.) ( <u>Stenacron</u> sp.)	T	mid June- late Aug	#14-#16 Light Cahill
Late Summer- Early Fall	*Giant Mahogany Drake ( <u>Hexagenia atrocaudata</u> )	B,T	mid July- early Aug	#6-#18 Mahogany Spinner #6 - Cream Nymph
	*Olive caddis ( <u>Hydropsyche</u> sp.)	T	early-late Aug	#14-#16 Olive Elk-hair Caddis



	*Dun Variant ( <u>Isonychia bicolor</u> )	B,T	(bimodal hatch) late Aug- mid Sept	#10-#14 Dun Variant Adams plus claret nymph
Late Summer	**Little Green Stonefly ( <u>Alloperia inbecilla</u> )	S	Aug-Sept	#12-#14 Little Green Stoneflies
	Blue-Winged Olives ( <u>Baetis</u> sp.)	T	late Aug- mid Oct	#26-#18 Blue-winged Olives dry
	*Giant Brown Sedge ( <u>Pycnopsyche</u> sp.)	B,T	mid Sept- mid Oct	#8-#10 Elk-hair Caddis

(Major fishing hatches - excluding very small mayflies, midges, etc.)

- \* Most important hatches
- \*\* Primarily Maitland River