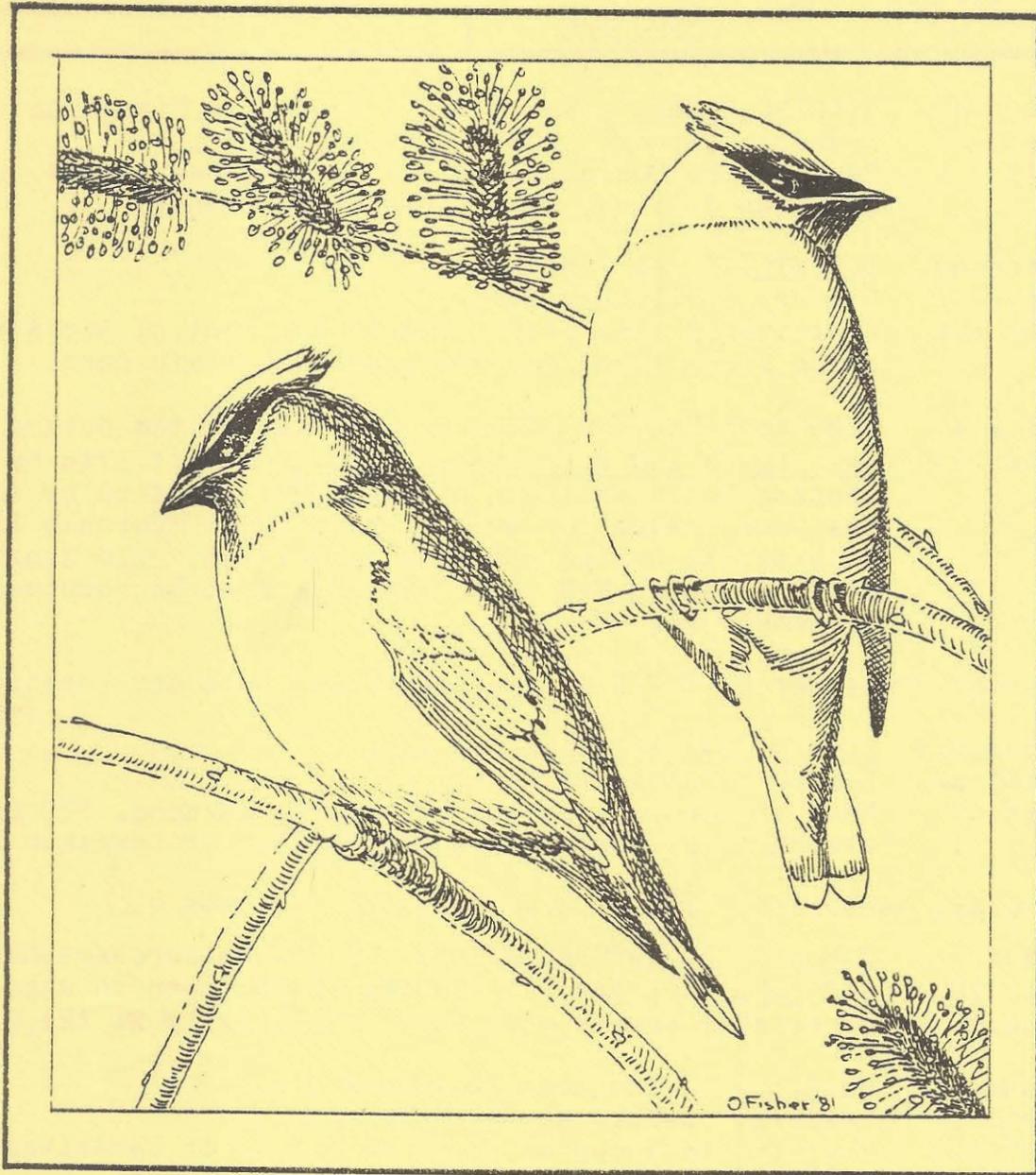




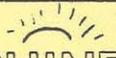
TORONTO FIELD NATURALIST

Number 357, September 1983



What! Willow pollen again?

See page 30

| | | |
|---|---|--|
|  | Upcoming OUTINGS | TFN  |
| RAIN 6.6. | or  SHINE | Everybody Welcome! |

Thursday EVENING RAMBLE - Kew Beach - Butterfly Migration
 Sept. 1 Leaders: Mildred Easto and Mary Parnell
 6:45 p.m. Meet on the Boardwalk at the foot of Lee Avenue. (South of Queen St. East, east of Woodbine Avenue).

Saturday TORONTO ISLAND - botany
 Sept. 3 Leader: Emily Hamilton
 9:00 a.m. Meet inside the ferry docks at the foot of Bay Street. Bring lunch to carry, and your membership card.

Sept. 4 Time to reserve a place on the bus for the outing to
 to 9th Hawk Cliff and Springwater Forest on Sept. 17th by
 phoning Emily Hamilton at 484.0487. Confirm by sending your cheque for \$20.00, payable to "Toronto Field Naturalists Outing" to Miss E. Hamilton, 3110 Yonge St. #407, Toronto, M4N 2K6. Cheques must be received by September 14.

Tuesday September 6 T.F.N General meeting. Note new location, page 41.

Wednesday EDWARDS GARDENS - nature walk
 10:00 am Leader: Catharine Heynes
 Sept. 7 Meet in the parking lot of Edwards Gardens, 777 Lawrence Ave. East, at Leslie. (Bus Leslie #51, or Lawrence East 54).

Saturday Sept. 10th. Junior Club Meeting. (See page 41.)

Saturday JIM BAILLIE NATURE RESERVE - birds, botany, sketching.
 Sept. 10 CAR POOL. Please let us know if you plan to attend, especially people with cars. Call Emily at 484.0487
 10: a.m.

Sunday BRAMPTON - Etobicoke Watershed E.S.A.
 Sept. 11 Leaders: Debbie and Paul Fortier
 1:30 p.m. Meet in the shopping plaza at corner of Sandalwood and Richvale, east of Kennedy Ave. in Brampton. Members who live in Brampton area are urged to attend.

Wednesday TORONTO ISLAND - nature walk
 Sept. 14 Leader: to be announced
 10:00 a.m. Meet inside the ferry docks at the foot of Bay Street. Bring lunch to carry and your membership card.

UPCOMING OUTINGS - continued

- Saturday HAWK CLIFF & SPRINGWATER FOREST & CONSERVATION AREA
 Sept.17 BUS OUTING to Lake Erie shore and woods near Aylmer.
 7:30 a.m Leader: Bruce Parker
 You must have reserved a place on the bus between Sept.4 and 9th; see these dates for details. Bus will leave at 7:30 a.m from York Mills subway station (northeast corner of Yonge and York Mills) and will arrive back about 6 p.m. Bring lunch and a snack as we shall not be stopping at restaurants.
- Sunday ROUGE VALLEY - birds
 Sept.18 Leader: Howard Battae
 1:00 p.m Meet at the bus stop at the entrance to the zoo, to walk down in the valley. (Bus. Scarborough #86 A).
- Wednesday HIGH PARK - nature walk
 Sept. 21 Leader: Emily Hamilton
 10:00 am Meet in the parking lot on West Road which is on your right as you enter from Bloor Street at High Park Avenue.
- BLACK CREEK PROJECT outing. See page 40.
 Saturday September 24th. 10:00 a.m
- Sunday WILKET CREEK PARK - nature walk
 Sept.25 Leader: to be announced
 10:30 am Meet in the parking lot off Leslie Street, just north of Eglinton Ave.East. (Eglinton East bus #34 to Leslie St.) Cross with the lights.
 Walk will end at the cabin. Lunch optional.
- Wednesday GARTHDALE RAVINE - nature walk
 Sept.28 Leader: Sandy Cappell
 10:00 am Meet at the northeast corner of Finch & Dufferin. (bus # 36 Finch West).
- Saturday October 1st. Junior Club meeting.
- Sunday BURKE RAVINE - birds
 Oct.2 Leader: Howard Battae
 1:00 pm Meet on Bayview Ave, east side, just north of the C.N.I.B overpass. (Davisville bus #28 to the overpass).
- Monday October 3rd TFN General meeting. New location. See page 41.

| |
|--|
| MAPS OF TORONTO RAVINES AND OTHER GREEN AREAS IN ONTARIO |
|--|

| |
|---|
| <p>Highly-detailed, four-colour maps, small enough to carry, showing terrain, roads, paths, and even buildings, are now available for seven parks and ravines in Metro Toronto and 35 other green areas in Ontario. These maps, costing \$1.00 to \$2.00, have been produced for the sport of orienteering by Orienteering Ontario, 1220 Sheppard Ave., East, Willowdale. M2K 2X1. Telephone 493-4160. More maps are planned.</p> |
|---|

President's Report

Our newest publication, Amphibians and Reptiles in Metropolitan Toronto, by Bob Johnson, is sparking interest in local wetlands. The behaviour of frogs is interesting when it is closely observed. For example, while watering the garden, I watched fascinated as a leopard frog, perking up at the sound of running water,

leapt into a flooded hollow; she backed down into the hollow and excavated it into her exact size and shape by wriggling vigorously. So that's what all those holes are in my vegetable garden!

The conditions attached to the OMB decision for development southeast of Finch and Islington by the Humber River are bearing fruit. A hopeful sign is the hoarding being placed along the valley side of the construction envelope instead of the usual flimsy snow-fence often buried by fill or moved at will.

Another OMB decision has now given the go-ahead to the first development in the Rouge River lands. At the hearing we pointed out the importance of retaining and reinforcing the continuous green corridor of Morningside Creek, which acts as a wildlife corridor and as a water-storage area. We also pointed out the need for careful construction methods near waterways.

We are continuing our participation in the Highway 89 discussions in the hope of finding the best way to cross the marsh, and of finding ways to reduce the impact of highways on the environment.

Helen Juhola was prepared to speak on our behalf at the OMB hearing on the Hinder Estate, but the hearing came to an abrupt end when the chairman decided that the intent of the Metro Official Plan to retain the West Don in a natural state was clear.

I spoke recently at a meeting of Scarborough's Planning Board to help to strengthen the environmental policies for their Official Plan. Some new aspects of environmental protection were incorporated; at the end of June the package was approved by Council.

Jean Macdonald and Helen Juhola gave presentations to the Birchcliff Heights Garden Club on "Attracting Birds to your Garden", to the Weston Branch Library and to members of Timothy Eaton United Church on "Toronto the Green". Jean and Helen met with a cordial reception on each occasion, confirmed in notes of thanks from Marie Gordon, B. J. O'Neill, and Ian Patterson.

Bob Hansen led two nature walks on behalf of TFN for a senior citizens' council at Earl Bales Park in June.

The discussion on bird kills at the radio towers on the Island continues. Approval to build more towers has been given; however, ways to reduce the impact on birds of structures along migration routes are being examined. Planners, inspectors and builders need to know how to control lights at times when weather conditions make it difficult for birds to follow the shoreline.

Second-class mailing privileges are still being withheld for our newsletter, so you will notice that it now costs 64¢ postage. Keep watching the stamp so you will know if we are successful.

We have decided to discontinue the Audubon Wildlife Films. (See Jack Gingrich's report, page 20.)

Over the past two years a committee of the Board has been updating the by-laws to bring them in line with present practice and to make some needed changes. These have been approved by the Board of Directors and we hope you will read the copy on pages 9-18, as well as carefully perusing the financial statements on pages 6-8, all of which will be presented for your approval at the Annual General Meeting in September.

Mary Smith

Members will be sorry to hear of the deaths of two former members of the Toronto Field Naturalists

L. EVERETT JAQUITH

Dr. L. E. Jaquith passed away in late May, 1983, just a few weeks before his 88th birthday. He was a medical doctor and an osteopath whose avocation was natural history. Many members of the TFN will remember Everett as a gentle, courteous man with a sense of humour which soon put people at ease. He was interested in all aspects of the out-of-doors and his knowledge and patience inspired many a budding naturalist. His quiet manner, his behind-the-scenes planning and his concern for people in their studies of the environment, made any outing with him a pleasurable and worthwhile experience. We extend sympathy to his wife, Barbara, of Terra Cotta.

Helen Inch, London

JAMES A. SIMON

Jim Simon, who died suddenly on Thursday, May 26, 1983, will be remembered as a man who loved the out-of-doors and who had an almost encyclopaedic knowledge of plants. He was largely self-taught and reacted with enthusiasm to opportunities to discuss and research his favourite subject with anyone interested. He was always willing and eager to share knowledge and was a familiar sight to naturalists as he explored Southern Ontario, often like a pied piper with a little band of followers. We extend deepest sympathy to his wife Clarice, son Jim and daughter Janice.

J.M.

SECOND MARSH DEFENCE ASSOCIATION

The above-named group (SMDA) needs your help to defend the Second Marsh in Oshawa against industrial development. Money is needed to prepare a case for a hearing before the Ontario Municipal Board. You may join the SMDA, and donations in excess of membership fees are tax-deductible. For more information, write to Esther Allin, Secretary, SMDA, P.O. Box 762, Oshawa, Ontario. L1H 7M9. (See also pages 22 and 26.)

AUDITOR'S REPORT

TO: MEMBERS OF THE TORONTO FIELD NATURALISTS

I have examined the balance sheet of the Toronto Field Naturalists as at June 30, 1983 and the income statement for the year then ended. My examination included a general review of the accounting procedures and such tests of the accounting records and other supporting evidence as I considered necessary in the circumstances.

Membership fees, donations and other revenues are as shown in the books. These receipts have been tested by me to bank deposits. However, because of their nature, these revenues are not susceptible to complete audit verification.

In my opinion, subject to the limitation of the scope of my audit as explained above, these financial statements present fairly the financial position of the corporation as at June 30, 1983 and the results of its operations for the year then ended, in accordance with generally accepted accounting principles applied on a basis consistent with that of the preceding year.

TORONTO, CANADA
July 15, 1983


ALISTAIR J. KENNEDY
Chartered Accountant

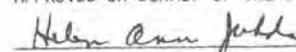
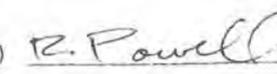
TORONTO FIELD NATURALISTS
(incorporated without share capital under the laws
of the Province of Ontario)

BALANCE SHEET
as as June 30, 1983

ASSETS

| | 1983 | 1982 |
|--|-------------------------------|------------------|
| Current Assets | | |
| Cash - for general club purposes | \$ 20,948 | \$ 18,558 |
| Accounts Receivable | - | - |
| Prepaid Expenses | - | 200 |
| Accrued Interest | 695 | 450 |
| Short Term Investments | 2,640 | 2,500 |
| Inventory - at cost (Note 2) | 2,048 | 2,334 |
| | <u>25,331</u> | <u>24,042</u> |
| Other Assets (Note 1) | | |
| Restricted for J. Baillie Reserve - Cash | 21,161 | 10,166 |
| - Short Term Investments | 24,781 | 21,000 |
| - Accrued Interest | 380 | 3,837 |
| | <u>46,322</u> | <u>35,003</u> |
| Property and Equipment | | |
| Land | 42,770 | 42,770 |
| Building | \$3,050 | |
| Less Accumulated Depreciation | 1,300 | 1,950 |
| | <u>44,520</u> | <u>44,720</u> |
| | <u>\$117,173</u> | <u>\$103,765</u> |
| | <u>LIABILITIES AND EQUITY</u> | |
| Current Liabilities | | |
| Accounts Payable | \$ 3,261 | \$ 3,218 |
| Membership Fees received in advance | 6,490 | 6,617 |
| Unexpired Subscriptions | 1,461 | 1,346 |
| | <u>11,212</u> | <u>11,181</u> |
| | <u>EQUITY</u> | |
| Reserve for future expenditures re J. Baillie Reserve (Note 1) | 46,322 | 35,003 |
| Retained Earnings | | |
| Balance at beginning of year | 57,581 | 54,117 |
| Income for year | 2,058 | 3,464 |
| | <u>59,639</u> | <u>57,581</u> |
| | <u>105,961</u> | <u>92,584</u> |
| | <u>\$117,173</u> | <u>\$103,765</u> |
| Working Capital: | | |
| Dollars | \$ 15,119 | \$ 12,861 |
| Ratio | 2.35:1 | 2.15:1 |

APPROVED ON BEHALF OF THE BOARD

 (Director)  (Director)

The attached notes are an integral part of these financial statements.

TORONTO FIELD NATURALISTS
COMPARATIVE INCOME STATEMENT
for the year ended June 30, 1983

| | <u>1983</u> | <u>1982</u> | <u>1981</u> |
|--------------------------------------|-----------------|-----------------|-----------------|
| REVENUE | | | |
| Membership Fees | \$17,892 | \$13,080 | \$11,900 |
| Income earning programmes:- | | | |
| Audubon Wild Life Films | 1,790 | 525 | 1,059 |
| Publications | 504 | 415 | 15 |
| Outings | <u>583</u> | <u>534</u> | <u>908</u> |
| | <u>\$20,769</u> | <u>\$14,554</u> | <u>\$13,882</u> |
| EXPENSES | | | |
| Subsidized programmes:- | | | |
| Ontario Field Biologist Publications | \$ 959 | \$ 611 | \$ 1,084 |
| Junior Club | 78 | 250 | -- |
| Meetings expenses | 1,898 | 1,985 | 1,293 |
| Newsletters, printing and mailing | 12,597 | 11,244 | 8,374 |
| Other printing expenses | 438 | 924 | 129 |
| Other mailing expenses | 1,085 | 1,031 | 392 |
| Honoraria | 2,050 | 1,300 | 820 |
| Advertising and publicity | 795 | 292 | 403 |
| Donations and affiliation fees | 25 | 75 | 510 |
| Liability insurance | 475 | 535 | 535 |
| Office supplies | 351 | 156 | 281 |
| Telephone | <u>328</u> | <u>317</u> | <u>279</u> |
| | <u>\$21,079</u> | <u>\$18,720</u> | <u>\$14,100</u> |
| Operating Income (loss) | \$ (310) | \$(4,166) | \$ (218) |
| Interest Income | <u>1,938</u> | <u>1,610</u> | <u>1,119</u> |
| Cash Flow (loss) | 1,628 | \$(2,556) | \$ 901 |
| Depreciation | <u>200</u> | <u>200</u> | <u>200</u> |
| Net Income (loss) before donations | \$ 1,428 | \$(2,756) | \$ 701 |
| Donations | <u>630</u> | <u>6,220</u> | <u>308</u> |
| Net Income (loss) | <u>\$ 2,058</u> | <u>\$ 3,464</u> | <u>\$ 1,009</u> |

The attached notes are an integral part of these financial statements.

TORONTO FIELD NATURALISTS

NOTES TO FINANCIAL STATEMENTS
as at June 30, 1983

NOTE 1 - ACCOUNTING POLICIES

PROPERTY VALUATION

The Land and Shelter at the Baillie Nature Reserve are recorded at cost. The cost of the Shelter is being amortized on a straight line basis over its estimated useful life of 15 years.

JAMES BAILLIE NATURE RESERVE

Donations received for the James Baillie Nature Reserve are segregated on the financial statements, and are to be used solely for Reserve purposes. The interest earned on these funds is sufficient to cover the normal operating costs of the Reserve.

NOTE 2 - INVENTORY

A Ontario Grant of \$2,870 was received in 1978/79 to partially finance the cost of production and publication of a Toronto Bird Finding Guide Book. The total cost amounted to \$6,347. Sales of the book have reduced the Toronto Field Naturalists' share to \$72 at June 30, 1983 and this amount is included in Inventory.

TORONTO FIELD NATURALISTS
DEPARTMENTAL INCOME STATEMENT
for the year ended June 30, 1983

| | Total | Regular Club Activities | Outings | Publications | Ontario Field Biologist | Audubon Films |
|---|-----------------|----------------------------|---------------|--------------|----------------------------|----------------|
| REVENUE | \$30,268 | \$17,892 | \$2,941 | \$851 | \$3,003 | \$5,581 |
| COSTS | | | | | | |
| Meetings expenses | 2,808 | 1,898 | | | | 910 |
| Newsletters - printing | 6,807 | 6,807 | | | | |
| - mailing | 5,790 | 5,790 | | | | |
| Other printing expense | 4,641 | 438 | | 347 | 3,100 | 756 |
| Other mailing expense | 1,947 | 1,085 | | | 862 | |
| Honoraria | 2,050 | 2,050 | | | | |
| Advertising & publicity | 795 | 795 | | | | |
| Donations & affiliation fees | 25 | 25 | | | | |
| Liability insurance | 475 | 475 | | | | |
| Office supplies | 351 | 351 | | | | |
| Telephone | 328 | 328 | | | | |
| Outings expense | 2,358 | | 2,358 | | | |
| Audubon Films expense | 2,125 | | | | | 2,125 |
| Junior Club contribution | 78 | 78 | | | | |
| | <u>30,578</u> | <u>20,120</u> | <u>2,358</u> | <u>347</u> | <u>3,962</u> | <u>3,791</u> |
| Operating Margin (loss) | (310) | (2,228) | 583 | 504 | (959) | 1,790 |
| Interest Income | <u>1,938</u> | <u>1,938</u> | - | - | - | - |
| Cash Flow (loss) | 1,628 | (290) | 583 | 504 | (959) | 1,790 |
| Depreciation on Shelter at Reserve | <u>200</u> | <u>200</u> | - | - | - | - |
| Net Income (loss) - Regular Operations | 1,428 | (490) | 583 | 504 | (959) | 1,790 |
| Donations received | <u>630</u> | <u>630</u> | - | - | - | - |
| Net Income (loss) | <u>\$ 2,058</u> | <u>\$ 140</u> | <u>\$ 583</u> | <u>\$504</u> | <u>\$ (959)</u> | <u>\$1,790</u> |

The attached notes are an integral part of these financial statements.

Board of Directors 1983 - 1984

Past President: Helen Juhola (924-5806) 112-51 Alexander St., Toronto M4Y 1E3

President: Mary Smith (231-5302) 49 Thorncrest Rd., Islington M9A 1S6

Vice President: Jean Macdonald (425-6596) 88 Parklea Dr., Toronto M4G 2J8

Directors:

Billie Bridgman (749-7860) #801 - 2825 Islington Ave., Weston M9L 2K1

Alexander Cappell (663-7738) #109 - 35 Cedarcroft Blvd., Willowdale M2R 2M4

Beth Jefferson (251-2998) #404 - 41 Lakeshore Dr., New Toronto M8V 1Z3

Aarne Juhola (924-5806) #112 - 51 Alexander St., Toronto M4Y 1E3

Muriel Miville (463-8066) 607 - 33 Eastmount Ave., Toronto M4K 1V3

Bruce Parker (449-0994) TH66 - 109 Valley Woods Rd., Don Mills M3A 2R8

Robin Powell (928-9493) #402 - 169 St. George St., Toronto M5R 2M4

Roger Powley (535-4740) 25 Indian Rd. Cres., Toronto M6P 2E9

Winifred Smith (923-9015) #509 - 145 St. George St., Toronto M5R 2M1

NEW

B Y - L A W N O. 1

A by-law relating generally to the transactions of the affairs of
TORONTO FIELD NATURALISTS (hereinafter called the "Club")
BE IT ENACTED as a by-law of TORONTO FIELD NATURALISTS as follows:-

H E A D O F F I C E

1. The Head Office of the Club shall be in the Municipality of Metropolitan Toronto, in the Province of Ontario, and at such place therein as the directors may from time to time determine.

S E A L

2. The seal, an impression whereof is stamped in the margin hereof, shall be the corporate seal of the Club.

M E M B E R S H I P

3. Membership in the Club is open to any person who is in sympathy with the objects of the Club. A person becomes a member in good standing by paying the prescribed fees. Each member in good standing shall be entitled to one vote on each question arising at any general or special meeting of the members.



*Aesculus
Hippocastanum*
[Horsechestnut]

Dida
1980

OLD

B Y - L A W N O. 1

A by-law relating generally to the transaction of the affairs of

TORONTO FIELD NATURALISTS

BE IT ENACTED as a by-law of TORONTO FIELD NATURALISTS as follows:

H E A D O F F I C E

1. The Head Office of the Corporation shall be in the Municipality of Metropolitan Toronto, in the Province of Ontario, and at such place therein as the directors may from time to time determine.

S E A L

2. The seal, an impression whereof is stamped in the margin hereof, shall be the corporate seal of the Corporation.

M E M B E R S H I P

18. The membership shall consist of the applications for the incorporation of the Corporation and such other individuals over the age of 16 years as are admitted as members by the board of directors. Each member in good standing shall be entitled to one vote on each question arising at any special or general meeting of the members. Each member shall promptly be informed by the Secretary of his admission as a member.

(a) The board of directors may from time to time award honorary membership, at its discretion, to persons who have rendered distinguished service to the Corporation to the advancement of natural history, or to the cause of wild-life preservation. They shall not be required to pay fees, dues or assessments.

(b) The board of directors may admit life members, who shall be persons who shall have paid to the Corporation a life membership fee as prescribed from time to time by the board of directors. Life members shall be entitled to vote, but shall not be required to pay any further fees, dues or assessments.

(c) The board of directors may permit family membership consisting of close relatives of eligible age residing at the same address, each of whom shall be entitled to vote.

(d) The board of directors may permit corresponding membership, which shall be available only to persons residing more than 20 miles from the Royal Ontario Museum. Corresponding members shall not be entitled to vote or to hold office.

(e) The board of directors may permit student membership, available only to full-time students of eligible age.

NEW

F E E S

4. Fees shall be set by the Board of Directors and shall become effective when approved by the membership at an annual or other general meeting.

B O A R D O F D I R E C T O R S

5. (a) The affairs of the Club shall be managed by a board of twelve (12) directors, each of whom at the time of his nomination and throughout his term of office, shall be a member of the Club. The board of directors shall include the President and the Vice-President, both of whom shall be elected annually by the members of the Club, and the immediate past President, together with nine other directors who shall be divided into three classes of three members each as follows:-

(i) one class shall be elected to hold office for a term of three (3) years from the date of their election or until the third annual meeting after such date, whichever shall first occur;

(ii) a second class shall be elected for a term of two (2) years from the date of their election or until the second annual meeting after such date, whichever shall first occur;

(iii) a third class shall be elected for a term of one year from the date of their election or until the first annual meeting after such date, whichever shall first occur.

At each annual election, the proper number of directors to replace the directors of the class retiring in such year shall be elected.

(b) With the exception of the immediate past President, all members of the board of directors shall be eligible for re-election, if otherwise qualified. If an election is required, it shall be by ballot mailed to all members. Ballots may be mailed to the auditor or deposited at the annual general meeting prior to the commencement of the meeting. The ballots will be tabulated by the auditor who shall announce the results. The members of the Club may, by resolution passed by at least two-thirds (2/3) of the votes cast at a general meeting of which notice specifying the intention to pass such resolution has been given, remove any director before the expiration of his term of office, and may, by a majority of the votes cast at that meeting, elect any person in his stead for the remainder of his term.

OLD

D U E S

19. There shall be no dues or fees payable by members except such, if any, as shall from time to time be fixed by vote of the board of directors, which vote shall become effective only when confirmed by a vote of the members at an annual or other general meeting. The Secretary shall notify the members of the dues or fees at any time payable by them and, if any are not paid within three months of the date of such notice the members in default shall thereupon automatically cease to be members of the Corporation.

B O A R D O F D I R E C T O R S

3. (a) The affairs of the Corporation shall be managed by a board of 12 directors, each of whom at the time of his election or within 10 days thereafter and throughout his term of office shall be a member of the Corporation. The board of directors shall include the President and the Vice-President, both of whom shall be elected annually by the members of the Corporation, and the immediate past President, together with nine other directors who shall be divided into three classes of three members each: one class shall be elected to hold office for a term of three years from the date of their election or until the third annual meeting after such date, whichever shall first occur; a second class who shall be elected for a term of two years from the date of their election or until the second annual meeting after such date, whichever shall first occur; and a third class who shall be elected for a term of one year from the date of their election or until the first annual meeting after such date, whichever shall first occur. At each annual election, the proper number of directors to replace the directors of the class retiring in such year shall be elected for the term of three years or until the third annual meeting after their election, whichever shall first occur.

(b) With the exception of the immediate past President, all members of the board of directors shall be eligible for re-election, if otherwise qualified. The election may be by a show of hands, unless a ballot be demanded by any member. The members of the Corporation may, by resolution passed by at least two-thirds of the votes cast a general meeting of which notice specifying the intention to pass such resolution has been given, remove any director before the expiration of his term of office, and may, by a majority of the votes cast at that meeting, elect any person in his stead for the remainder of his term.

NEW

(c) A director of the Club who fails to attend three (3) Board Meetings in one year without just cause shall, at the discretion of the Board, be deemed to have resigned.

(d) No person shall qualify to serve as a director of the Club unless his fees are paid in full and any director who has not paid his fees by June 30 shall be deemed to have resigned.

(e) In the event the Board deems it necessary to relieve a director of his duties, the Board shall notify such director in writing at his last known address that he has been deemed to have resigned. Such dismissal shall take effect without further notice ten (10) days after the mailing of such notice at which time there shall be deemed to be a vacancy in the Board of Directors.

(f) The Board shall, at its November meeting, appoint a nominating committee consisting of three persons, including the immediate past-president as chairman and two members of former boards of directors. The nominating committee, in the February newsletter, shall invite members to submit names of persons for its consideration. The nominating committee shall make such nominations for the offices of President, Vice-President and directors as are necessary. The report of the nominating committee shall be presented to the Board at the March meeting and the list of nominees shall be published in the May issue of the newsletter.

(g) Any three members may submit, in writing, to the Secretary-Treasurer by July 15th the name of a candidate accompanied by the written consent of the nominee. Such nominations shall be published in the September issue of the newsletter and the names of such nominees shall be added to the list of candidates submitted by the nominating committee.

(h) Any nominee may withdraw his candidacy, in writing, any time prior to election.

VACANCIES, BOARD OF DIRECTORS

6. Vacancies on the board of directors, however caused, may, so long as a quorum of directors remain in office, be filled by the directors from among the qualified members of the Club, if they shall see fit to do so, otherwise such vacancy shall be filled at the next meeting of the members at which directors are elected. If there is not a quorum of directors, the remaining directors shall forthwith call a meeting of the members and fill the vacancy at such meeting of members. If the number of directors is increased between the terms, a vacancy or vacancies (to the number of the authorized increase) shall thereby be deemed to have occurred, which may be filled in the manner above provided. The duration of such appointments shall be the remaining period of time for which the original incumbent was elected.

OLD

(c) There shall be a nominating committee consisting of the three immediate past presidents, the chairman of which shall be the most recent incumbent. The nominating committee shall make such nominations for the offices of President, Vice-President and membership of the board of directors as they shall consider necessary and appropriate. The report of the nominating committee shall be submitted to the Secretary and their list of candidates shall be published in the April issue of the Newsletter. Nominations of members of the Corporation may be proposed in writing to the Secretary by any three members of the Corporation accompanied by the written consent of the nominee. Such nominations shall be published in the May issue of the Newsletter and the names of such nominees shall be added to the list of candidates submitted by the nominating committee and shall be presented to the annual meeting.

VACANCIES, BOARD OF DIRECTORS

4. Vacancies on the board of directors, however caused, may so long as a quorum of directors remain in office, be filled by the directors from among the qualified members of the Corporation, if they shall see fit to do so, otherwise such vacancy shall be filled at the next annual meeting of the members at which directors are elected, but if there is not a quorum of directors, the remaining directors shall forthwith call a meeting of the members to fill the vacancy. If the number of directors is increased between the terms, a vacancy or vacancies, to the number of the authorized increase, shall thereby be deemed to have occurred, which may be filled in the manner above provided. All resignations and appointments shall be announced in the next issue of the Newsletter, and shall be submitted to the membership for their ratification at the next monthly general meeting. The duration of such appointments shall be the remaining period of time for which the original incumbent was elected.

NEW

QUORUM AND MEETINGS, BOARD OF DIRECTORS

7. Seven members of the board of directors present in person shall form a quorum for the transaction of business. Except as otherwise required by law, the board of directors may hold its meetings at such place or places as it may from time to time determine. No formal notice of any such meeting shall be necessary if all the directors are present, or if those absent have signified their consent to the meeting being held in their absence. Directors' meetings may be formally called by the President or Vice-President. Notice of such meetings shall be communicated, verbally or in writing, to each director not less than one day before the meeting is to take place. The statutory declaration of the President or Vice-President that notice has been given pursuant to this by-law shall be sufficient and conclusive evidence of the giving of such notice. The board may appoint a day or days in any month or months for regular meetings at an hour to be named and for such regular meetings, no notice need be sent. A directors' meeting may also be held, without notice, immediately following the annual meeting of the Club. The directors may consider or transact any business, either special or general, at any meeting of the board.

ERRORS IN NOTICE, BOARD OF DIRECTORS

8. No error or omission in giving such notice for a meeting of directors shall invalidate such meeting or invalidate or make void any proceedings taken or had at such meeting and any director may at any time waive notice of any such meeting and may ratify and approve any or all proceedings taken or had thereat.

VOTING, BOARD OF DIRECTORS

9. Questions arising at any meeting of directors shall be decided by a majority of votes. In case of an equality of votes, the Chairman, in addition to his original vote, shall have a second or casting vote. All votes at any such meeting shall be taken by ballot if so demanded by any director present but if no demand be made, the vote shall be taken in the usual way by assent or dissent. A declaration by the Chairman that a resolution has been carried and an entry to that effect in the minutes shall be admissible in evidence as prima facie proof of the fact without proof of the number or proportion of the votes recorded in favour of or against such resolution. In the absence of the President his duties may be performed by the Vice-President or such other director as the board may from time to time appoint for the purpose.

OLD

QUORUM AND MEETINGS, BOARD OF DIRECTORS

5. Five members of the board of directors present in person shall form a quorum for the transaction of business. Except as otherwise required by law, the board of directors may hold its meetings at such place or places as it may from time to time determine. No formal notice of any such meeting shall be necessary if all the directors are present, or if those absent have signified their consent to the meeting being held in their absence. Directors' meetings may be formally called by the President or Vice-President or by the Secretary on direction of the President or Vice-President, or by the Secretary on direction in writing of two directors. Notice of such meetings shall be delivered, telephoned or telegraphed to each director not less than one day before the meeting is to take place or shall be mailed to each director not less than two days before the meeting is to take place. The statutory declaration of the Secretary or President that notice has been given pursuant to this by-law shall be sufficient and conclusive evidence of the giving of such notice. The board may appoint a day or days in any month or months for regular meetings at an hour to be named and of such regular meeting no notice need be sent. A directors' meeting may also be held, without notice, immediately following the annual meeting of the Corporation. The directors may consider or transact any business either special or general at any meeting of the board.

ERRORS IN NOTICE, BOARD OF DIRECTORS

6. No error or omission in giving such notice for a meeting of directors shall invalidate such meeting or invalidate or make void any proceedings taken or had at such meeting and any director may at any time waive notice of any such meeting and may ratify and approve of all or any proceedings taken or had thereat.

VOTING, BOARD OF DIRECTORS

7. Questions arising at any meeting of directors shall be decided by a majority of votes. In case of an equality of votes, the Chairman, in addition to his original vote, shall have a second or casting vote. All votes at any such meeting shall be taken by ballot if so demanded by any director present, but if no demand be made, the vote shall be taken in the usual way by assent or dissent. A declaration by the Chairman that a resolution has been carried and an entry to that effect in the minutes shall be admissible in evidence as prima facie proof of the fact without proof of the number or proportion of the votes recorded in favour of or against such resolution. In the absence of the President his duties may be performed by the Vice-President or such other director as the Board may from time to time appoint for the purpose.

NEW

P O W E R S

10. The directors of the Club may administer the affairs of the Club in all things and make or cause to be made for the Club, in its name, any kind of contract which the Club may lawfully enter into, and, save as hereinafter provided, generally may exercise all such other powers and do all such other acts and things as the Club is, by its charter or otherwise, authorized to exercise and do. Without in any way derogating from the foregoing, the directors are expressly empowered, from time to time, to purchase, lease or otherwise acquire, alienate, sell, exchange or otherwise dispose of shares, stocks, rights, warrants, options and other securities, lands, buildings and other property, movable and immovable, real or personal, or any right or interest therein owned by the Club, for such consideration and upon such terms and conditions as they may deem advisable.

REMUNERATION OF DIRECTORS

11. The directors shall receive no remuneration for acting as such. The board may authorize remuneration to such persons as they may appoint in such amount and for such purpose as the board may, by resolution, determine.

OFFICERS OF THE CLUB

12. In addition to the President and Vice-President, there shall be a Secretary-Treasurer appointed by the Board. One person may hold more than one office except the offices of President and Vice-President. The President and Vice-President shall be elected annually by the members of the Club.

There shall be a Recording Secretary and an Editor of the newsletter, a Leader of the Junior Club, and such other officers as the Board of Directors may determine by resolution from time to time. Other than the President and Vice-President, none of the officers need be member of the Board but all must be members of the Club. The appointment of all such officers shall be approved by the Board.

DUTIES OF PRESIDENT AND VICE-PRESIDENT

13. The President shall preside at all meetings of the members of the Club and of the board of directors. The President shall also be charged with the general management and supervision of the affairs and operations of the Club and presentation of an annual report to the membership. During the absence or inability of the President, his duties and powers may be exercised by the Vice-President. If the Vice-President, (or such other director as the board may from time to time appoint for the purpose) exercises any such duty or power, the absence or inability of the President shall be presumed with reference thereto.

OLD

P O W E R S

8. The directors of the Corporation may administer the affairs of the Corporation in all things and make or cause to be made for the Corporation, in its name, any kind of contract which the Corporation may lawfully enter into, and, save as hereinafter provided, generally, may exercise all such other powers and do all such other acts and things as the Corporation is by its charter or otherwise authorized to exercise and do. Without in any way derogating from the foregoing, the directors are expressly empowered, from time to time, to purchase, lease or otherwise acquire, alienate, sell, exchange or otherwise dispose of shares, stocks, rights, warrants, options and other securities, lands, buildings and other property, movable and immovable, real or personal, or any right or interest therein owned by the Corporation, for such consideration and upon such terms and conditions as they may deem advisable.

REMUNERATION OF DIRECTORS

9. The directors shall receive no remuneration for acting as such.

OFFICERS OF CORPORATION

10. In addition to the President and Vice-President, there shall be a Secretary, a Treasurer, an Editor of the Newsletter, a Director of the Junior Club and such other officers as the board of directors may determine by by-law from time to time. One person may hold more than one office except the offices of President and Vice-President. The President and Vice-President shall be elected annually by the members of the Corporation. The other officers of the Corporation need not be members of the board, and, in the absence of written agreement to the contrary, the employment of all such officers shall be settled from time to time by the board.

DUTIES OF PRESIDENT AND VICE-PRESIDENT

11. The President shall, when present, preside at all meetings of the members of the Corporation and of the board of directors. The President shall also be charged with the general management and supervision of the affairs and operations of the Corporation. During the absence or inability of the President, his duties and powers may be exercised by the Vice-President, and if the Vice-President, or such other director as the board may from time to time appoint for the purpose, exercises any such duty or power, the absence or inability of the President shall be presumed with reference thereto.

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NEW

DUTIES OF THE SECRETARY-TREASURER

14. The Secretary-Treasurer shall be the custodian of the seal of the Club and of all books, papers, records, contracts and other documents belonging to the Club which he shall deliver up only when authorized by a resolution of the board of directors to do so and to such person or persons as may be named in the resolution. In addition, the Secretary-Treasurer shall be responsible for keeping full and accurate accounts of all receipts and disbursements of the Club in proper books of account and depositing all moneys or other valuable effects in the name and to the credit of the Club in such bank or banks as may from time to time be approved by the board of directors. He shall disburse the funds of the Club under the direction of the board of directors taking proper vouchers therefor and shall render to the board of directors at the regular meetings thereof or whenever required of him an accounting of all his transactions as Secretary-Treasurer and of the financial position of the Club. He shall make such filings to the government agencies as are required to maintain the Club's corporate status and its status as a charitable non-profit organization.

DUTIES OF THE RECORDING SECRETARY

15. The Recording Secretary shall be an ex-officio clerk of the Board of Directors. He shall attend all meetings of the Board of Directors and record all facts and minutes of all proceedings in the books kept for that purpose. He shall give all notices to be required to be given to members and to directors.

DUTIES OF EDITOR

16. The Editor of the Toronto Field Naturalist (hereinafter called "the newsletter") shall, with the aid of the newsletter committee, compile and arrange for the publishing of the material for a newsletter as approved by the Board of Directors, which newsletter shall include a program of activities of the Club and shall also be the official means of informing the membership of the business of the Club. Other items that might be of interest to the membership may be included at the discretion of the Editor.

MEMBERSHIP AND DUTIES OF CHAIRMAN OF THE JUNIOR CLUB

17. The Chairman shall be responsible for the activities of the Junior Club, which shall generally include presentation of films and talks, study groups under guidance of group leaders, and publication each May of a magazine which shall serve as a record of the past year's activities. Membership in the Junior Club shall be open to any person between the ages of 8 and 16, inclusive, on payment of any annual fees to be approved by the board of directors. Meetings shall be held monthly from September to May inclusive, generally on the morning of the first Saturday of each month. A director of the Toronto Field Naturalists shall be appointed to act as liaison with the Junior Club and report to the Board at its regular meetings.

OLD

DUTIES OF SECRETARY

12. The Secretary shall be ex officio clerk of the board of directors. He shall attend all meetings of the board of directors and record all facts and minutes of all proceedings in the books kept for that purpose. He shall give all notices required to be given to members and to directors. He shall conduct correspondence, publish the Newsletter and the President's annual report, and maintain a list of members and issue membership cards. He shall be the custodian of the seal of the Corporation and of all books, papers, records, correspondence, contracts and other documents belonging to the Corporation which he shall deliver up only when authorized by a resolution of the board of directors to do so and to such person or persons as may be named in the resolution, and he shall perform such other duties as may from time to time be determined by the board of directors.

DUTIES OF TREASURER

13. The Treasurer, or person performing the usual duties of a Treasurer, shall keep full and accurate accounts of all receipts and disbursements of the Corporation in proper books of account and shall deposit all moneys or other valuable effects in the name and to the credit of the Corporation in such bank or banks as may from time to time be designated by the board of directors. He shall disburse the funds of the Corporation under the direction of the board of directors, taking proper vouchers therefor and shall render to the board of directors at the regular meetings thereof or whenever required of him, an account of all his transactions as Treasurer, and of the financial position of the Corporation. He shall also perform such other duties as may from time to time be determined by the board of directors.

DUTIES OF EDITOR OF NEWSLETTER

14. The Editor of the Newsletter shall compile the material for a monthly Newsletter from October to May inclusive, which Newsletter shall include a program of activities for the month and shall also be the official means of informing the membership of the business of the Corporation. Other items that might be of interest to the membership may be included at the discretion of the Editor.

DUTIES OF DIRECTOR OF THE JUNIOR CLUB

15. The director of the Junior Club shall be responsible for the activities of the Junior Club, which shall generally include presentation of films and talks, study groups under guidance of group leaders, and publication each May of a magazine which shall serve as a record of the past year's activities. Membership in the Junior Club shall be open to any person between the ages of 8 and 16, inclusive, on payment of an annual fee to be fixed by the board of directors. Meetings shall be held monthly from October to May, inclusive, generally on the morning of the first Saturday of each month. Annual election of officers, consisting of a President, a Vice-President, a Secretary and a Treasurer, from the membership of the Junior Club shall normally take place at its May meeting.

NEW

EXECUTION OF DOCUMENTS

18. Deeds, transfer, licences, contracts and engagements on behalf of the Club shall be signed by either the President or Vice-President and by the Secretary-Treasurer, and the Secretary-Treasurer shall affix the seal of the Club to such instruments as require the same. Contracts in the ordinary course of the Club's operations may be entered into on behalf of the Club by the President, Secretary-Treasurer or by any person authorized by the board. The President and Secretary-Treasurer, on approval of the board of directors may transfer any and all shares, bonds or other securities from time to time standing in the name of the Club in its individual or any other capacity or as trustee or otherwise and may accept in the name and on behalf of the Club transfers of shares, bonds, or other securities from time to time transferred to the Club, and may affix the corporate seal on any such transfers or acceptances of transfers, and may make, execute and deliver under the corporate seal any and all instruments in writing necessary or proper for such purposes, including the appointment of an attorney or attorneys to make or accept transfer of shares, bonds or other securities on the books of any company or corporation. Notwithstanding any provisions to the contrary contained in the by-laws of the Club, the board of directors may at any time by resolution direct the manner in which, and the person or persons by whom, any particular instrument, contract or obligations of the Club may or shall be executed.

BOOKS AND RECORDS

19. The Archives of Ontario shall be the official repository of the books, records and all other documents of the Club.

ANNUAL AND OTHER MEETINGS OF MEMBERS

20. The annual or any other general meetings of the members shall be held as the board of directors may determine. At every annual meeting, in addition to any other business that may be transacted, the report of the auditor shall be presented and the President, Vice-President and directors shall be elected. The auditor shall be appointed for the ensuing year at a remuneration to be fixed by the board of directors. No business may be considered and transacted at the meeting unless notice has been presented previously to the full membership in the newsletter. The board of directors or the President or Vice-President shall have the power to call at any time a general meeting of the members of the Club. No public notice or advertisement of members' meetings, annual or general, shall be required but notice of the time and place of every such meeting shall be given to each member by publishing it in the newsletter which shall be mailed at least ten days before the time fixed for the holding of such meeting.

OLD

EXECUTION OF DOCUMENTS

16. Deeds, transfer, licences, contracts, and engagements on behalf of the Corporation shall be signed by either the President or Vice-President and by the Secretary or Treasurer, and the Secretary shall affix the seal of the Corporation to such instruments as require the same. Contracts in the ordinary course of the Corporation's operations may be entered into on behalf of the Corporation by the President, Treasurer or by any person authorized by the board. The President, Vice-President, the directors, Secretary or Treasurer, or any one of them, or any person or persons from time to time designated by the board of directors may transfer any and all shares, bonds or other securities from time to time standing in the name of the Corporation in its individual or any other capacity or as trustee or otherwise and may accept in the name and on behalf of the Corporation transfers of shares, bonds, or other securities from time to time transferred to the Corporation, and may affix the corporate seal to any such transfers or acceptances of transfers, and may make, execute and deliver under the corporate seal any and all instruments in writing necessary or proper for such purposes, including the appointment of an attorney or attorneys to make or accept transfers of shares, bonds or other securities on the books of any company or corporation. Notwithstanding any provisions to the contrary contained in the by-laws of the Corporation, the board of directors may at any time by resolution direct the manner in which, and the person or persons by whom, any particular instrument, contract or obligations of the Corporation may or shall be executed.

BOOKS AND RECORDS

17. The directors shall see that all necessary books and records of the Corporation required by the by-laws of the Corporation or by any applicable statute or law are regularly and properly kept.

ANNUAL AND OTHER MEETINGS OF MEMBERS

20. The annual or any other general meetings of the members shall be held as the board of directors may determine. At every annual meeting, in addition to any other business that may be transacted, the report of the directors, the financial statement and the report of the auditors shall be presented and the President, Vice-President and directors shall be elected and auditors appointed for the ensuing year at a remuneration to be fixed by the board of directors. The members may consider and transact any business either special or general without any notice thereof at any meeting of the members. The board of directors or the President or Vice-President shall have power to call at any time a general meeting of the members of the Corporation. No public notice or advertisement of members' meetings, annual or general, shall be required, but notice of the time and place of every such meeting shall be given to each member either by sending the notice by prepaid mail or telegraph or by publishing it in the Newsletter, at least ten days before the time fixed for the holding of such meeting.

NEW

ERROR OR OMISSION IN NOTICE

21. No error or omission in giving notice of any annual or general meeting or any adjourned meeting, whether annual or general, to the members of the Club shall invalidate such meeting or make void any proceedings taken thereat and any member may at any time waive notice of any such meeting and may ratify, approve and confirm any or all proceedings taken or had thereat. For the purpose of sending notice to any member, director or officer for any meeting or otherwise, the address of any member, director or officer shall be his last address recorded on the membership list of the Club.

ADJOURNMENTS

22. Any meetings of the Club or of the directors may be adjourned to any time and from time to time and such business may be transacted at such adjourned meeting as might have been transacted at the original meeting from which such adjournment took place. Such adjournment may be made notwithstanding that no quorum is present.

QUORUM OF MEMBERS

23. A quorum for the transaction of business at any meeting of members shall consist of not less than fifty (50) members present in person.

VOTING OF MEMBERS

24. Subject to the provisions, if any, contained in the Letters Patent of the Corporation, each member of the Club shall at all meetings of members be entitled to one vote. No member shall be entitled to vote unless he has paid all fees, if any, then payable by him. At all meetings of members every question shall be decided by a majority of the votes of the members present unless otherwise required by the by-laws of the Club, or by any law. Every question shall be decided in the first instance by a show of hands, unless a poll be demanded by any member. Upon a show of hands, every member having voting rights shall have one vote and, unless a poll be demanded, a declaration by the Chairman that a resolution has been carried or not carried and an entry to that effect in the minutes of the Club shall be admissible in evidence as prima facie proof of the fact without proof of the number or proportion of the votes accorded in favour of or against such resolution. The demand for a poll may be withdrawn but if a poll be demanded and not withdrawn, the question shall be decided by a majority of votes given by the members present, and such poll shall be taken in such manner as the Chairman shall direct and the result of such poll shall be deemed to be the decision of the Club in general meeting upon the matter in question. In case of an equality of votes at any general meeting, whether upon a show of hands or at a poll, the Chairman shall be entitled to a second or casting vote.

OLD

ERROR OR OMISSION IN NOTICE

21. No error or omission in giving notice of any annual or general meeting or any adjourned meeting, whether annual or general, of the members of the Corporation shall invalidate such meeting or make void any proceedings taken thereat and any member may at any time waive notice of any such meeting and may ratify, approve and confirm all or any proceedings taken or had thereat. For the purpose of sending notice to any member, director or officer for any meeting or otherwise, the address of any member, director or officer shall be his last address recorded on the books of the Corporation.

ADJOURNMENTS

22. Any meetings of the Corporation or of the directors may be adjourned to any time and from time to time and such business may be transacted at such adjourned meeting as might have been transacted at the original meeting from which such adjournment took place. No notice shall be required of any such adjournment. Such adjournment may be made notwithstanding that no quorum is present.

QUORUM OF MEMBERS

23. A quorum for the transaction of business at any meeting of members shall consist of not less than fifty members present in person.

VOTING OF MEMBERS

24. Subject to the provisions, if any, contained in the Letters Patent of the Corporation, each member of the Corporation shall at all meetings of members be entitled to one vote. No member shall be entitled to vote at meetings of the Corporation unless he has paid all dues or fees, if any, then payable by him. At all meetings of members every question shall be decided by a majority of the votes of the members present unless otherwise required by the by-laws of the Corporation, or by law. Every question shall be decided in the first instance by a show of hands, unless a poll be demanded by any member. Upon a show of hands, every member having voting rights shall have one vote, and unless a poll be demanded a declaration by the Chairman that a resolution has been carried or not carried and an entry to that effect in the minutes of the Corporation shall be admissible in evidence as prima facie proof of the fact without proof of the number or proportion of the votes accorded in favour of or against such resolution. The demand for a poll may be withdrawn, but if a poll be demanded and not withdrawn the question shall be decided by a majority of votes given by the members present, and such poll shall be taken in such manner as the Chairman shall direct and the result of such poll shall be deemed the decision of the Corporation in general meeting upon the matter in question. In case of an equality of votes at any general meeting, whether upon a show of hands or at a poll, the Chairman shall be entitled to a second or casting vote.

NEW

FINANCIAL YEAR

25. The fiscal year of the Club shall terminate on the 30th day of June in each year.

CHEQUES, ETC.

26. All cheques, bills of exchange or other orders for the payment of money, notes or other evidences of indebtedness issued in the name of the Club, shall be signed by such officer or officers, agent or agents of the Club and in such manner as shall from time to time be determined by resolution of the board of directors. Any one of such officers or agents so appointed may arrange, settle, balance and certify all books and accounts between the Club and the Club's bankers and may receive all paid cheques and vouchers and sign all the bank's forms or settlement of balances and release or verification slips.

DEPOSIT OF SECURITIES FOR SAFEKEEPING

27. The securities of the Club shall be deposited for safekeeping with one or more bankers, trust companies or other financial institutions to be approved by the board of directors. Any and all securities so deposited may be withdrawn, from time to time, only upon the written order of the Club signed by such officer or officers, agent or agents of the Club, and in such manner, as shall from time to time be determined by resolution of the board of directors and such authority may be general or confined to specific instances. The institutions which may be so selected as custodians by the board of directors shall be fully protected in acting in accordance with the directions of the board of directors and shall in no event be liable for the due application of the securities so withdrawn from deposit or the proceeds thereof.

NOTICE

28. Whenever under the provisions of the by-laws of the Club notice is required to be given, such notice may be given either personally or by publishing it in the newsletter or by depositing same in a post office or a public letter-box, in a prepaid, sealed wrapper addressed to the director, officer or member at his address as the same appears on the membership list of the Club. A notice or other document so sent by post shall be deemed to be sent at the time when the same was deposited in a post office or public letter-box as aforesaid. For the purpose of sending any notice the address of any member, director or officer shall be his last address as recorded on the membership list of the Club.

OLD

FINANCIAL YEAR

25. Unless otherwise ordered by the board of directors, the fiscal year of the Corporation shall terminate on the 30th day of April in each year.

CHEQUES, ETC.

26. All cheques, bills of exchange or other orders for the payment of money, notes or other evidences of indebtedness issued in the name of the Corporation, shall be signed by such officer or officers, agent or agents of the Corporation and in such manner as shall from time to time be determined by resolution of the board of directors and any one of such officers or agents may alone endorse notes and drafts for collection on account of the Corporation through its bankers, and endorse notes and cheques for deposit with the Corporation's bankers for the credit of the Corporation, or the same may be endorsed "for collection" or "for deposit" with the bankers of the Corporation by using the Corporation's rubber stamp for the purpose. Any one of such officers or agents so appointed may arrange, settle, balance and certify all books and accounts between the Corporation and the Corporation's bankers and may receive all paid cheques and vouchers and sign all the bank's forms or settlement of balances and release or verification slips.

DEPOSIT OF SECURITIES FOR SAFEKEEPING

27. The securities of the Corporation shall be deposited for safekeeping with one or more bankers, trust companies or other financial institutions to be selected by the board of directors. Any and all securities so deposited may be withdrawn, from time to time, only upon the written order of the Corporation signed by such officer or officers, agent or agents of the Corporation, and in such manner, as shall from time to time be determined by resolution of the board of directors and such authority may be general or confined to specific instances. The institutions which may be so selected as custodians of the board of directors shall be fully protected in acting in accordance with the directions of the board of directors and shall in no event be liable for the due application of the securities so withdrawn from deposit or the proceeds thereof.

NOTICE

28. Whenever under the provision of the by-laws of the Corporation notice is required to be given, such notice may be given either personally or telegraphed or by publishing it in the Newsletter or by depositing same in a post office or a public letter-box, in a prepaid, sealed wrapper addressed to the director, officer or member at his or their address as the same appears on the books of the Corporation. A notice or other document so sent by post shall be held to be sent at the time when the same was deposited in a post office or public letter-box as aforesaid, or if telegraphed shall be held to be sent when the same was handed to the telegraph company or its messenger. For the purpose of sending any notice the address of any member, director or officer shall be his last address as recorded on the books of the Corporation.

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NEW

BORROWING

29. No money shall be borrowed on behalf of the credit of the club, nor any securities pledged, nor any real or personal property mortgaged or pledged unless the proposal has been presented by mail ballot to all members and has been approved by two-thirds of the respondents.

INTERPRETATION

30. In these by-laws and in all other by-laws of the Club hereafter passed unless the context otherwise requires, words importing the singular number or the masculine gender shall include the plural number or the feminine gender, as the case may be, and vice versa, and references to persons shall include firms and corporations.

OLD

BORROWING

29. The directors may from time to time
- (a) borrow money on the credit of the Corporation; or
 - (b) issue, sell or pledge securities of the Corporation; or
 - (c) charge, mortgage, hypothecate or pledge all or any of the real or personal property of the Corporation, including book debts, rights, powers, franchises and undertakings, to secure any securities or any money borrowed, or other debt, or any other obligation or liability of the Corporation.

From time to time the directors may authorize any director, officer or employee of the Corporation or any other person to make arrangements with reference to the moneys borrowed or to be borrowed as aforesaid and as to the terms and conditions of the loan thereof, and as to the securities to be given therefor, with power to vary or modify such arrangements, terms and conditions and to give such additional securities for any moneys borrowed or remaining due by the Corporation as the directors may authorize, and generally to manage, transact and settle the borrowing of money by the Corporation.

INTERPRETATION

30. In these by-laws and in all other by-laws of the Corporation hereafter passed unless the context otherwise requires, words importing the singular number or the masculine gender shall include the plural number or the femine gender, as the case may be, and vice versa, and references to persons shall include firms and corporations.



TORONTO FIELD NATURALISTS

THE OBJECTS FOR WHICH THE CORPORATION IS TO BE INCORPORATED ARE -

- (a) To acquire and disseminate knowledge of natural history.
- (b) To protect and to preserve wild-life.
- (c) To stimulate public interest in and understanding of nature and in its protection and preservation.
- (d) To develop and sponsor special-interest groups in the various fields of natural history.

- (e) To provide facilities and leadership to children in the various fields of natural science, through a junior affiliated organization known as the "TORONTO JUNIOR FIELD NATURALISTS' CLUB", hereinafter referred to as the JUNIOR CLUB.
- (f) For the further attainment of the above objects, to acquire, accept, solicit or receive, by purchase, lease, contract, donation, legacy, gift, grant, bequest or otherwise, any kind of real or personal property, and to enter into and carry out agreements, contracts and undertakings incidental thereto.

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| QUESTIONNAIRE RESULTS MONTHLY GENERAL MEETINGS |
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Many thanks to the 94 people who took the time to fill in the questionnaire in the April issue of our newsletter. Many valuable suggestions and comments were submitted which will be of assistance in planning future general meetings.

We were pleased to learn that most respondents found the general meetings to be satisfactory and even excellent, although 11% felt that lectures could be in greater depth. The comments about the newsletter, outings, etc. have been passed on to the Board of Directors. Again it was heartening to find such generous appreciation for these activities and the suggestions for improvements have been duly noted.

Most of the respondents classified themselves as amateurs in knowledge of natural history who attended meetings as often as they could. The majority also attended Outings, the Bird Group and the Botany Group in that order of popularity.

The main reason for non-attendance was lack of interest in the topic, closely followed by being too busy, another meeting on the TFN night, or being too tired or ill. (It appears that most of the respondents are very active people!) The weather, television, location of meetings and feeling unsafe alone at night ranked very low on the list of possible reasons for staying home.

The following is the order of preference for topics that have been enjoyed:

1. birds
2. botany
3. mammals
4. ecology
5. travelogues
6. environmental issues
7. specific habitats
8. photography
9. reptiles and amphibians
10. weather

Geology was a frequent suggestion under "other".

The choice for method of presentation was for a variety. A speaker with slides was definitely preferred to movies. Reports from members would be generally acceptable only at the small-group level. The choice for orientation of meetings was for a balanced mixture of the various possibilities; second choice was an Ontario theme; third, world-wide; fourth, mostly Toronto-oriented.

It was also interesting to see which radio stations and newspapers have responded to the publicity that has been sent out, thus enabling us to eliminate unnecessary mailings and expense.

Many of your concerns about the Tuesday night meetings and the location of meetings have already been attended to (see page 41). And your preferences for interesting topics, type of speakers, method of presentation will be taken into consideration when planning for future general meetings.

Beth Jefferson

SHUT-IN BIRDERS' projects

TFN member Harold Taylor would like to hear from members or their friends who attract birds to their homes despite being shut-ins. Perhaps they have bird houses in their gardens, operate window-sill feeders, or have friends who stock feeders for them.

Harold wishes to report on the birding activities of shut-ins in a future newsletter so that others in a similar position might be encouraged to take up this enjoyable hobby.

Please call Harold at: 225-2649 or write to him at: 264 Horsham Avenue,
Willowdale, Ont.
M2R 1G4



AUDUBON WILDLIFE FILMS

For 37 consecutive years, starting in 1946, the Audubon Wildlife Films (formerly the Audubon Screen Tours) have been presented in Toronto. They were originally sponsored here by the Toronto Field Naturalists and the Royal Canadian Institute jointly, but since 1946 they have been sponsored by the TFN only. These fine film-lectures are organized by the National Audubon Society in the USA and they feature 16 mm colour nature films by top-notch nature photographers, usually narrated by the photographer himself.

Many people in the Toronto area have been introduced to nature, and have obtained a much better appreciation of our environment and its natural inhabitants through these educational and entertaining films. With the recent decision of the board of directors of the TFN to stop sponsoring the Audubon Films, an important and interesting segment of the TFN history comes to an end.

The sponsoring of a series of Audubon Films, usually five per season, entails a financial risk; the cost of the auditorium and equipment, and the payment to the National Audubon Society, are the same regardless of the number of people attending. If too few tickets are sold, the club loses money. On the other hand, the operation can be profitable and, in spite of ups and downs over the years, the TFN has made substantial profits from these films. This was particularly true when the films were held in Eaton Auditorium, which had a seating capacity of about 1400. At their peak, each Audubon film was shown on three consecutive nights, but later it was down to two nights and in the early 1960's it went down to one night only. When the Eaton Auditorium was no longer available, the Audubon Films moved to the much smaller, 500-seat, OISE auditorium.

Profits from the Audubon Films have been used to pay for additional showings in various Toronto schools, for general club purposes, and to help pay for the Jim Baillie Nature Reserve north of Uxbridge.

The club delegates the responsibility for running the Audubon Films to a committee (frequently a committee of one). The chairman of this committee was, for many years, traditionally the immediate past president. This practice ended in 1972 and since then the chairman has been anyone who volunteered for the job.

During the peak years, a part-time secretary handled the tremendous task of mailing out brochures to all people on the combined mailing list of the TFN, the Federation of Ontario Naturalists, the Canadian Audubon Society (now the Canadian Nature Federation), the Royal Canadian Institute, the Ontario Forestry Association, and the Sierra Club. In return for using these mailing lists, the TFN invited these organizations to send a representative to one of the five films to act as chairman and introducer. This enabled them to publicize their organizations, and hand out brochures.

Since 1970, the club has offered overnight accommodation in private homes for the Audubon lecturers. Almost all of the speakers prefer this to staying in hotels. This is partly because they like to meet local naturalists and partly because their meals and accommodation are not paid by the National Audubon Society. This practice has been mutually rewarding to both the hosts and the guests.

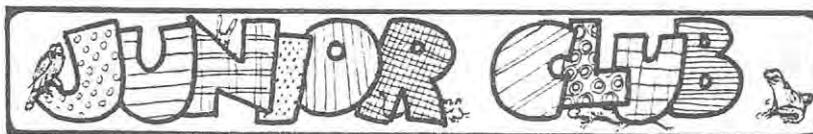
The day of an Audubon Film can be nerve-wracking for the chairman of the Audubon Film Committee. The speaker may be driving as far as 500 miles on winter roads to get from his previous engagement the night before, to Toronto. There is a great feeling of relief when the lecturer arrives safely on time.

Even after the speaker has arrived in the city, there may still be difficulties. One night the lecturer was driving from a motel at the mouth of the Humber, using instructions obtained by phone. He drove up Yonge Street as suggested, and soon came to an Eaton Department store. The Chairman was pacing the floor in great anguish in Eaton Auditorium at Yonge and College while the speaker was searching the upper floors at Yonge and Queen, trying to find an auditorium! He finally realized his mistake, and arrived five minutes before curtain time.

The great power failure in the fall of 1965 occurred on the night of an Audubon Film. Traffic was hectic because of dead traffic lights, and power was on only intermittently throughout the evening over most of the city. But, for those who managed to get to the auditorium, the show went on with no power interruptions.

These films have portrayed wild nature on all of the continents. There have been many films on Africa, some on Australia and New Zealand, a few filmed in South America and Europe. The majority have been filmed right here in North America, many of them in Canada. The National Audubon Society has been extremely successful in obtaining lecturers who are not only good photographers but who are also excellent speakers and fine naturalists. Some people in Toronto have attended these films regularly for 25 years or more; others have attended a few films now and then. But all of us who have seen these films will retain pleasant memories of spectacular scenery and magnificent nature photography brought to us through the magic of the movie camera and projector.

Jack Gingrich



Help Wanted!

FOR AUDIO-VISUAL SHOW

We are preparing a slide-and-audio tape show about the Junior Club. This is a one-year project to be ready for September 1984. We need "memorabilia" such as old slides, historical photos, old newspaper clippings, old copies of Flight, articles you may have written for Junior Club publications, tape recordings if anyone has them. We will copy and return the material if you want it back. The Junior Club, by the way, now has more than fifty years of history behind it.

We are asking mainly for people to submit material, but those who wish are also welcome to participate in preparing the show and to present it to audiences. If you have material to donate or would like to participate, call Jane Gardner at 922-5443 (home). If she's not in, a recording machine will take your message.

For information on the Junior Club, call Sandy Cappell, 663-7738.

IN THE NEWS

HYDRO TRANSMISSION LINES TO CROSS ESCARPMENT

Hydro have identified a number of alternative corridors for the power lines that are to run from the Bruce generating station to Barrie. CONE, represented by Counsel, Ms. Grace Patterson, and Lyn MacMillan appeared at a meeting called by Hydro in Woodstock on June 8. We asked for two things:

a) That the 30 day notice of the final public hearings be extended to 90 days to allow the public sufficient time to examine Hydro's final decision of a preferred route (to be chosen from the alternatives).

b) To receive full data of Hydro's Environmental Assessment report, not merely a summary as they have indicated.

The officers of Consolidated Hearings Board will consider our requests and be making a ruling soon. CONE will be carefully examining Hydro's preferred route and will be kept informed by them of the times and place of the final hearings. Obviously CONE is against any crossing of the Niagara Escarpment by transmission towers as large as the 500 kw ones proposed by Hydro but unfortunately the Board has already decided it must cross the Escarpment. Our aim is to insure that it does so where it can create the least possible damage.

(From CONE, Coalition on the Niagara Escarpment, June 1983)

QUIET AIRCRAFT HARD ON BIRDS

Faster, quieter aircraft are good for people, but not for birds, a study made at New York's Kennedy Airport has concluded. Birds usually face into the wind so they cannot see a plane coming on a runway. They use the noise of an approaching jet to warn them to get out of the way. However, background noise levels at Kennedy are from 51-98 decibels, nearly as loud as modern airliners. A bird can hear a Boeing 707 about 20 seconds before it passes. It has only 10 seconds of warning of a Boeing 747 and will have even less time to escape the quieter 757 and 767. (From GLOBE & MAIL, April 15, 1983)

OSHAWA SECOND MARSH

The most valuable marsh on the central Lake Ontario shoreline could be saved from development only to be filled by pollution, Federal Environment Minister John Roberts warned. Oshawa Second Marsh, a one-square-kilometre patch of trees, reeds, mud and wildlife just east of the city's port, is already threatened by port expansion plans. Federal environment officials are trying to modify any development to protect this ecologically valuable area, but point out that the marsh is also filling with sediment. The Second Marsh is said to be "one of the largest and best quality shoreline marshes on Lake Ontario."

(From GLOBE & MAIL, June 24, 1983)

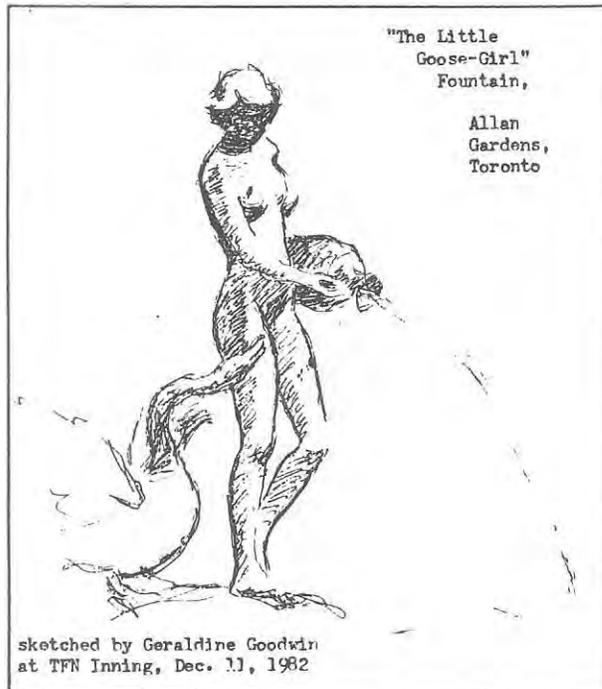
(See also pages 5 & 26)

IN THE NEWS continues on next page...

TFN NATURE SKETCHING GROUP REPORT

(Winter 1982-83)

In Allan Gardens greenhouses on December 10, we had a variety of subjects from which to choose; we were drawn to the chrysanthemums, ornamental red peppers, poinsettias, and the fountain with its goose-girl and backdrop of foliage plants. Good results were obtained through working in ink, pencil, and coloured pencil. There was some very successful work in watercolour too, and in "contour drawing" (in which one keeps the eye on the subject, not on the pencil).



The Royal Ontario Museum was our meeting-place on January 8. The two glass cases of mammals, shells and butterflies were favourite subjects for drawings, courser pens being used for the weathered wood of a totem pole. The group gathered in the cafeteria, and after lunch discussed the sketches of the morning. Comparing techniques is always good. In the afternoon some of us sketched dinosaurs in their "landscapes".

Those of us who met at the Art Gallery of Ontario on February 12 to view the exhibits also enjoyed

the film on the famous Russian-born Toronto artist, Paraskeva Clark, "Portrait of the Artist as an Old Lady", and later viewed some of the originals of her impressive work in the Margaret Eaton Gallery. In the Canadiana gallery we admired the strength of Emily Carr's interpretations of the west-coast woodlands; there were some of the impressionistic Group of Seven works in this gallery as well, which we were able to compare later in the afternoon with the earlier work of Maurice Cullen. Thus we were able to see the transition from the French Impressionist style to the more intense version required to interpret the Canadian landscape. We ended up sketching Chinese families in a Baldwin Street restaurant.

On March 12, in the Royal Bank Plaza lobby, we sketched tropical plants (some tall trees) against a background of low stone walls. Even in the heart of the city, in the coldest months, there are living things to draw and paint. No need to hibernate.

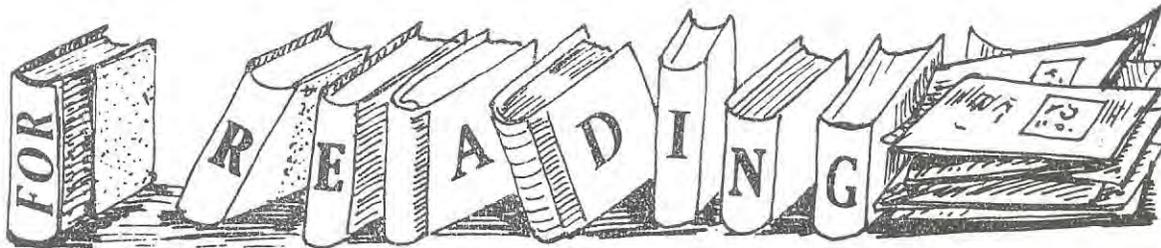
Mary Cumming

IN THE NEWS - continued...

RESOURCES UNIT PLANNED AT UofT

The University of Toronto will build a Natural Resources Centre to combine studies in botany, forestry, geology, geography and environmental studies. The \$44-million centre, to be built on a site along Spadina Crescent in Toronto, will include undergraduate and research laboratories. The Ontario Government is providing \$30-million with the rest of the money coming from corporate and private donors.

(From GLOBE & MAIL, June 17, 1983)



Breeding Birds of Ontario, Nidology and Distribution, Volume 1: Non-Passerines by George K. Peck and Ross D. James. Published by the Royal Ontario Museum, 1983. 321 pages, including 142 maps, 32 photographic illustrations, 37 ink drawings, indices and bibliography. \$25.00.

After 27 years, the wealth of new information produced through the Ontario Nest Records Scheme is being put into the hands of bird enthusiasts throughout the Province in this excellent form. Obviously much exacting work has gone into this volume. Though in the title "NESTING and Distribution" might have been less intimidating, be reassured that the book contains no obscure terminology but is as readable as it is informative. The nesting data is clearly interpreted for 138 species, with facing distribution map for each.

Habitat, nest structure and materials, clutch sizes and dates are given for most species. Apparently information on incubation periods is still needed for a number of species. The story stops short of describing eggs and young.

Actual observation of the birds themselves while nesting is only sparsely reported. However, what is said on the subject of the nests often manages to create a lively picture of the birds which built them; e.g. Bald eagles are known to incorporate in their nests whole nests of house sparrows and starlings; black-billed cuckoos may lay their eggs in the nests of yellow-billed, and vice versa; intrepid sparrows and grackles sometimes build their nests in active red-tailed hawk or osprey nests.

An outstanding contribution toward the popular pursuit of getting to know our Ontario birds.

Diana Banville

Just Bats by H. Erock Fenton. University of Toronto Press, Toronto, 1983. 165 pages, 6" x 9" format. \$9.95 softbound; \$25.00 hardbound.

This is a fascinating book about bats, the only flying mammals, and, as the title suggests, it is also amusing and entertaining in style and content. The many drawings and photos are, unfortunately, in dreary black-and-white. You will learn about bat flight, diet, child-raising, hibernation, parasites, diseases which they can (but are unlikely to) transmit to humans, a little bit about vampires, and how to keep bats out of your house.

The chapter on echolocation is surprisingly like a description of radar in modern electronic warfare - there even exists a moth which can jam bat sonar! As for vision, bats use their eyes, and it has been noted that they have difficulty in finding their way when blindfolded by researchers. The concluding chapter is on conservation, as bats are now endangered by such hazards as pesticides and habitat destruction.

The author has studied bats in the field throughout the world and gives many anecdotes on their behaviour from his own experience.

A. Cappell

Amphibians and Reptiles in Metropolitan Toronto: 1982 Inventory and Guide
by Bob Johnson. Published by TPN 1983. 54 pages, light to carry. \$2.50

There once was a man in Toronto with a special fondness for toads. He arranged for the city to keep its mechanical sweepers off the roads in the High Park area during the toad spring migrations. The small toadlets, which took hours to cross the roads and clamber over the curbs, escaped to the safety of nearby gardens instead of ending up in a sweeper.

This is just one of the many delightful accounts of Toronto's amphibians and reptiles in a guide published by Toronto Field Naturalists. The author is Bob Johnson, curator of Amphibians and Reptiles at the Metro Toronto Zoo. His 54-page inventory and guide is the first survey of amphibian and reptile species in the Toronto area since 1913. This latest report is based on 255 sightings during seven months in 1982. 25 species were found. For each one Bob Johnson gives its current status, size, physical characteristics that will help the observer to identify it, as well as some interesting comments. The guide also locates the 1982 sightings on maps of Metro Toronto.

Of 11 species common in 1913, only 4 are now in this category: Garter Snake, Midland Painted Turtle, American Toad, and Green Frog. Quite clearly, serious habitat deterioration has been experienced by many of Toronto's amphibians and reptiles - especially those which can survive only in specialized conditions. The Snapping Turtle, for example, while common in 1913, is now found only in a few wet areas in Metro. The preservation of suitable habitats for these animals should be a top conservation priority.

Harold Taylor

Highland Tours by James Hogg. Available from J.A. McIntyre, Box 371, Guelph.

This book describes the travels of James Hogg from 1802 to 1804 through the Scottish Highlands. "I think his description of the place in the Trossachs near Loch Katrine, Scotland, where every species 'of winged creation that frequent the woods and mountains of Caledonia' assembled, is priceless." (Excerpt on file in TPN Library, 690-1963.)

recommended by Jean McGill

WORLD WILDLIFE FUND

From TPN member Doug Suarez comes information about the WWF Canada Wildlife Reference Library. A large number of books and reports which are unique to WWF have been catalogued and are available to the public. The library also has a remarkable collection of wildlife photographs, both colour slides and black and white. The library has become a haunt for students, journalists, free-lance writers, producers and others who wish current and accurate information on wildlife issues with a special emphasis on Canadian species.

For information, contact:

World Wildlife Fund

60 St. Clair Ave. E., Suite 201, Toronto, Ontario. M4T 1N5

Telephone: 923-8173

The Miscellany...

Clippings, pamphlets, magazines, reports received for TFN Library.
If you wish to borrow any of them, call 690-1963...

A Guide to the Literature on the Herbaceous Vascular Flora of Ontario
by James L. Hodgins, 1978, 73 pp, including map list, herbaria list and
checklist of plants. Published by Botany Press, Toronto.

Ginseng, Uses and Forms of the Root of Life by Sylvia Levine, published by
The Whole Earth Health Company, Montreal, 1975, 32 pp including a short
bibliography.

Mushroom Collecting for Beginners by J. Walton Groves, published by Queen's
Printer, Ottawa, for Department of Agriculture, 1968. 30 pp with photo-
graphic illustrations. (Publication 861, originally published 1958). Safe
to collect for eating only those so designated in the book, provided careful
attention is given to description and precautions. "Only one rule is
emphasized - eat only species that you know to be edible and avoid all others".

Protecting the Native Flora in Reserves: Justification, Documentation and
Limitations, by P. M. Catling, excerpt from: Protection of Natural Areas
in Ontario, Apr., 1980, Working Paper #3, York U./U. of T. 14 pp plus map.

The Environment, Trouble in The Stratosphere, excerpt from The Atlantic,
125th Anniversary Issue (Vol. 250 No. 5 Nov./82), 5 pp. "Dangerous sunlight
and altered climates may result from pollution of the upper atmosphere."
Describes our atmosphere as "...a shining sliver, a fingernail paring of
light", as seen in a photograph relative to the earth and space.

The Threat to Ontario's Forest Heritage by P. F. Maycock, excerpt from
The Globe and Mail, Toronto, Apr. 6/81, 2 pp. Development, logging and
recreation activities, along with lack of communication are seen as the
cause of dwindling forests and shrubs in Ontario, particularly the southwest.

Second Marsh, excerpt from Ontario Out of Doors May, 1980. Article by
Wayne Adair in column "Conservation Insight", 6 pages. About the struggle
to retain Second Marsh, Oshawa, as a natural area as opposed to harbour
facilities.

SO2 Pollution May be Good for Plants, by Thomas H. Maugh II, 1-page article
from Science, Vol. 205, July 27/79. About sulphur from coal-burning plants.

Conservation and Natural Beauty by Philip H. Abelson, 1-page article from
Science, Vol. 150, Number 3703, Dec./65. Deals with the effects of "amenities"
and "controls" on parks and other beauty-spots, with some suggestions.

Preserving Vegetation in Parks and Wilderness, 7-page illustrated article
from Science 150, Dec./65. Article by Edward C. Stone about lack of clear
objectives in U. S. national park management.

ALL OF THE ABOVE HAVE BEEN KINDLY SUBMITTED BY JIM HODGINS.

WORDS

WORDS

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WORDS

The following words are used to denote the STATUS of WILDLIFE

Bird, mammal, reptile and amphibian species may be assigned to one of the following population status categories:

SECURE - any species whose population levels are compatible with existing habitat and are currently secure in the region under discussion because essential habitats are not severely threatened by environmental degradation.

RARE - any species that, because of its biological characteristics or because it occurs at the fringe of its range or for some other reason, exists in low numbers or in very restricted areas in the region under discussion, but is not a threatened species.

THREATENED - any species that is likely to become endangered in the region under discussion if the factors affecting its vulnerability do not become reversed.

ENDANGERED - any species whose existence is threatened with immediate extinction through all or a significant portion of its range owing to the actions of man.

EXTIRPATED - any species no longer existing in the wild in the area under discussion, but existing elsewhere.

PERIPHERAL - any species that is at the extreme edge of its geographic range and is not well established in the area under discussion.

ACCIDENTAL - any species which has been recorded in the area under discussion but is far from its normal range and is not expected to be present in the area on a regular basis. This status is normally only expected of highly mobile species such as birds and bats.

UNDETERMINED - any species about which present information is insufficient to accurately determine its status in the area under discussion.

- . This list has been adapted from an article by G.I. Holroyd in "Blue Jay" .
- . March 1983, the quarterly magazine published by the Saskatchewan Natural .
- . History Society .

Pas pick les fleurs
Ou dig les up

Ethicoo by Sim Metric

PATHFINDERS IN PANAMA

During our week in Panama - without the aid of a conducted tour - though often hot and flustered, semi-lost, embarrassed by our lack of Spanish, bewildered by the labyrinth of old-city Panama, we emerged with a real sense of accomplishment and adventure.

On the morning of February 12, from our 11th floor downtown hotel balcony, we spotted our first Panamanian bird - a crimson-backed tanager - high in the treetops. At about seven we headed north for the Summit Gardens (a national park). In a setting of tropical trees, we saw the yellow backed oriole, and those large vociferous blackbirds - the chestnut-headed and crested oropendolas - with their heavy cream-coloured bills and brilliant yellow tail-feathers. On to the Madden Forest where we spotted red-crowned and black-cheeked woodpeckers along the main road, and on spur trails a tropical mockingbird, a red-throated ant-tanager, many clay-coloured robins, and two hummingbirds - the violet-bellied and the black-throated mango. Fluttering on the roadside were butterflies of a beautiful deep sky-blue measuring about seven inches across. We returned to Panama City with 21 lifetime species. At the city waterfront we saw a dozen magnificent frigatebirds, a couple of hundred laughing gulls, at least as many brown pelicans, and a couple of Sandwich terns. The old city is overrun with black vultures which will scarcely move to let your car pass and (where there are trees) it is clamorous with great-tailed grackles.

The next morning began our westward trek. We intended to take in Cerro Campana (Bell Mountain) but were seduced at Chame by a big sign reading (in our translation) "This way to Paradise". With this incentive we set off on a seemingly endless rocky road through a wasteland, in purgatorial heat! Eventually we came to a series of inland salt-water bays where we saw great and snowy egrets, Louisiana and little blue herons, and olivaceous cormorants. Finally reaching the coast, with its quarter-mile beach, we found no hotel but wangled a room at a rather seedy private club. With 300 sanderlings and 60 willets we paddled gratefully in the blue and tepid Pacific. In the badlands environs of our club we found mangrove swallow, Panama flycatcher, blue-grey tanager, smooth-billed ani, a dozen orange-chinned parakeets, and a fork-tailed emerald (hummingbird) in a magenta bougainvillea.

Next morning we bade a semi-fond farewell to Punta Chame. As we approached the Interamerica Highway we had a splendid view of a swallow-tailed kite circling fifty feet above. We made good time on the highway and were soon in the Veraguas foothills. Here the country has for many miles been laid waste by slash-and-burn clearing which has destroyed the luxuriant tropical forest and created a semi-desert landscape - some areas were still smouldering as we passed. In this part of the country, to open the door of one's air-conditioned Toyota is to encounter the heat of a blast-furnace. In the distance are the strange purple Panamanian mountains like jagged broken teeth on the horizon. But even in this unpromising landscape we could see from the highway, in flight, a crested caracara, 6 white-tailed kites, 4 fork-tailed flycatchers, and 2 grey-breasted martins. Everpresent black and turkey vultures could be seen, at intervals, swarming over the flatlands at the foot of the hills. Rising into the hill country in Veraguas, the highway becomes increasingly tortuous; we came upon the scene of an accident where a car had plunged over a precipice at a dangerous curve.

We were glad to reach the greener and cooler plateau country of Chiriqui province and the pleasant village of Volcan, and gladder still to get a room at the charming old Dos Rios hotel. A southern house wren was singing lustily

outside our window as we checked in, and many other birds were to be found later in the floriferous grounds around the little frame hotel. Before sunset we took a walk along the roadway to the west in the cool mountain air, and added to our list yellow-bellied siskin, social flycatcher, blue-and-white swallow, and the handsome (meadow-lark-voiced) chestnut-collared sparrow, a very abundant species in these parts.

On our next morning's pre-breakfast garden stroll we discovered the yellow-faced grassquit, scarlet-rumped tanager (with dissimilar female) and a small tanager - the blue-headed euphonia. Five miles northeast of Volcan, at about 10 AM we reached the end of drivable road on the Boquete Trail (elevation 6000 ft.) and caught up with a party of birders and their Indian guide, Jose Fernandez, in quest of the quetzal. The resplendent quetzal typically inhabits humid mountain forests and is attracted to the edges of clearings; indeed it was at the edge of a mountain cowpasture that we had a superb view of a pair, gorgeous in blue-green and red, the male with his 30-inch tail. (We literally had to push cows off the trail in order to reach our prize.) On the way back we found slate-throated redstart, scintillant hummingbird, sulphur-winged parakeet, black-faced solitaire and emerald tanager. Back at Volcan in the late afternoon we found several new birds in the hotel grounds and environs, including Vaux's swift, golden-olive woodpecker, the warbler-sized silver-throated tanager, and two more hummingbirds - rufous-tailed and green violet-ear. That night we heard a pauraque (a seldom-seen relative of the nighthawk) calling from the garden.

The following morning we took another pre-breakfast turn in the garden and neighbouring fields and came up with eleven new birds including the tropical gnatcatcher and the grosbeak-like buff-throated saltator. Most gratifyingly, we had an excellent view of a pair of blue-crowned motmots. These striking racquet-tailed birds, richly arrayed in blue, green and tawny, allowed us to approach to within 20 feet of the tree in which they sat meditatively amidst flickering leaves, 30 feet above. We took a long quiet look and left them to their contemplation. It was about 60 miles to Boquete where we arrived about noon in the heat of the day (90°F). It was very quiet on the plateau loop, except for the moment when we drove over the edge at an inadequately marked road-mending site and were pushed back on to the road by four mildly amused workmen. Nevertheless we did see four new species: a flame-coloured tanager, 4 red-legged honeycreepers, 20 white-collared swifts, and a lesser elaenia (a small drab flycatcher showing a slight shaggy crest).

On our return journey to Panama City (February 17) despite the fierce midday heat (over 100°F) in the badlands and scrub-growth of the plains and foothills, we did well with birds of prey - a hook-billed kite, red-throated and crested caracaras, and two splendid yellow-headed caracaras, the second of which we stopped to observe as he stood in the middle of the road working on a road-killed lizard.

The next day, starting out at 5:50 AM, we found the Pipeline Road, with some difficulty, at about 8 AM. At the roadside we sighted two toucans: An excellent close-up of a large chestnut-mandibled, and a fleeting glimpse of the (smaller) collared aracari. On the spur trails we found two kinds of woodcreeper, a double-toothed kite, and yet another hummingbird - the white-vented plumeleteer. Along the mudflats of the nearby Chagres River were 60 wattled jacanas, 2 purple gallinules, a least grebe, and a grey-necked woodrail. This last is typically a shy denizen of wooden wetlands, yet this one stood and calmly preened on the mudflats while we watched through the telescope.

On our last morning (February 19) we rose at 4:30 AM, packed our bags, and left the hotel in pitch darkness headed for the Tocumen Marsh, 20 miles from Panama City and near the airport. We had some difficulty finding the marsh road due to inadequate directions and a desperate lack of road-signs, so we did not reach it until about 7 AM. What we saw when we arrived was a great expanse of shaggy wet meadow, broken here and there by a small pond. We were glad to see a group of American birders on the road. When we asked "Where is the Tocumen Marsh?" they replied, "You're in it." So we began driving very slowly along the sandy track. When we came to a larger pool we stopped and were rewarded with an excellent view of a white-throated crane, a 6-inch rail with bright rufous head and breast; a dozen jacanas were tip-toeing around him, and skimming overhead was an almost pure-white flycatcher called a black-crowned tityra. Half a dozen orchard orioles cavorted in the pondside bushes. At a smaller pond we came upon a group of 8 soras. The drivable road ending, we walked along a well-marked path for about a mile. Here the low trees and shrubs teemed with birds and, among many others, were a great black hawk, blue ground doves, white-winged becards, two flashy green parrots (red-lore amazons), and two scarcely less flashy yellow-tailed orioles. One marvellous tree, thick with bright-orange blossoms (alas, we did not learn our tree-names!) was alive with hummingbirds; out of a half-dozen species we identified rufous-tailed and fork-tailed emerald. But by now the tropical sun was beating down with unrelenting force, and at 10 AM we left for the airport where our plane was due to take off at noon.

And so, babes in the woods though we were, we had identified 152 species (100 new for our life-list). And we really had had an eyeful. We had identified 15 species of flycatcher, 9 hummingbirds, 9 hawks, and 7 tanagers. And we had seen 4 familiar warbler species in a tropical jungle. Next time round we will know how to find places, go to the airport hotel (La Siesta), avoid Panama City, and go to Colon on the Caribbean slope - for we never did find a trogon - violaceous or otherwise - which troubles our palmy Panamanian dreams.

Naomi and John LeVay

Recommended Field Guide:

A Guide to the Birds of Panama
by Robert S. Ridgely, 1976 (rev.1981)
Princeton U. Press, Princeton, NJ

This Month's Cover

"Cedar Waxwings on Willow", by Owen Fisher

Every year for twelve years when the willows are in full pollen the cedar waxwings visit the Fishers' backyard in numbers. Whether or not you can find willow-pollen as a food-source for this species in the manuals, we are told by Owen that they regularly stuff themselves on it! This gives Owen a golden opportunity to move in with his camera to photograph the preoccupied flock. Working from his photographs, he produces such fine drawings as the one on this month's cover. This time he has used a style with great economy, with refreshing results. By the way, this design is still available on eighty-pound bond, suitable for framing, at \$2.00. Hand-tinted copies are \$5.00. Obtain at monthly meetings or call Betty Paul, 224-0793. A reduced version appears on the new Toronto Region Bird Chart, published by TFN.

Ed. Committee

BIRD KILLS IN TORONTO

During 1982, the proposed construction of a new radio tower on Toronto Island drew the attention of TFN members to the problem of bird kill. It seemed appropriate that more information should be available, but little has been published about bird kills in Toronto.

The downtown area, with the Toronto-Dominion Centre, Commerce Court, other high buildings, and of course the CN Tower, are all in the way of migrating birds at many times during the year. The increasing number of high buildings augments the hazard every year in Metropolitan Toronto. Buildings that are illuminated are an even greater hazard as the light, particularly steady white lights, tend to attract the birds and they flutter in the beam until they drop from exhaustion or crash into the glass of the light.

Bird kills can occur almost any month of the year except December, with the peak in the spring. Migration accelerates by mid-April and continues in large numbers until about the second week in June. The volume of birds starts to increase in mid-July and reaches a peak about the third week in August. Migration continues until mid-October and is fairly light in November. The biggest kills in Toronto are the last week in April, the first week in June, the second week in August and the second week in October.

Birds migrate 24 hours a day. Blue jays and hummingbirds move by day as do other small birds that feed during the daylight hours. Waterfowl can feed either day or night so they migrate any time.

Birds migrate at lower levels when there is inclement weather. They are also known to use the shoreline of the lake or other geographic features as guides when visibility is poor. Birds start out quite high, but as time goes on, gradually drop down and just before dawn there is a huge kill. Even if all the lights are out, the birds hit the high buildings and the cumulative effect is enormous. The CFTO TV tower north of Highway 401 has high kills.

To assess the night's bird kill, it is necessary to be out before dawn to pick up the remains. The corpses can only be picked up by people with a federal permit under the Migratory Birds Act. Gulls, predators, dogs, cats and people pick up the dead and dying birds whether it is legal or not.

The toll of birds in Toronto is not known as it is difficult to make a complete study when there are so many high buildings over such a large area. Many birds are killed against windows. This secondary kill could be eliminated if something is placed on the outside of the glass. The "secondary" kills may be higher.

My thanks to Mr. Barry Kent MacKay for a discussion of this problem. A few years ago he published some of his work in the little-known "Defenders of Wildlife Magazine" from Washington, D.C. This magazine is not available in any of the Toronto libraries.

Winifred Smith

A VISIT TO LOVE CANAL

I found out about a tour to Love Canal and the other Niagara Falls chemical dumps on a dull Friday that seemed to be the start of a dull weekend. No dates, no interesting outings, all my friends busy. I was looking through the newspaper when I spotted an ad for the tour, sponsored by Pollution Probe.

We left Sunday, a fine June day. The sun was out; everything was growing.

The Niagara River provides 85% of Lake Ontario's water. It has at least 200 sources of contamination. We were only going to see five. These were the Seacoast, the S-area, the Love Canal, the 102nd Street, and Hyde Park.

Colin Isaacs, head of Pollution Probe, explained that his group had got involved with the Niagara River about three years ago when a chemical company called SCA wanted to build a pipeline to the Niagara River at Lewiston. The pipeline was built, but Pollution Probe's efforts succeeded in setting up a citizen's review board to monitor the pipeline outflow and other things.

The bus went past the Seacoast site, the only one of the five still in operation. It looked like any other landfill site: mud, berms, weeds, and mounds. New York State had to authorize its use until a satisfactory alternative for wastes could be found.

We made a stop at Hooker Chemical's main industrial area and the S-area dump which lies within. Apparently on some days the odour is nauseating. But it was Sunday, and as it had just rained the odour was faint and competed unsuccessfully with the fragrance of lilacs and honeysuckle. The industrial area looks no different from parts of York Borough: slightly grimy factory buildings of various sizes and shapes. Some were interesting architecturally. S-area dump was itself very inconspicuous, hidden by the water filtration plant for Niagara Falls and a fluoride treatment plant. It was covered with grass. The problem lies with what can't be seen. Chemicals have been proven to leak out of the site, both directly as a thick tar into the fractured bedrock below the site, and also through groundwater. Some springs near the Falls themselves were tested and found to contain a combination of toxins that could be identified as being from S-area dump. Most of the chemicals had been poured directly into this dump, without even the doubtful protection of drums. The chemicals are mostly various chlorinated industrial solvents along with pesticide residues. S-area is right beside the Niagara Falls drinking water filtration plant. The toxic brew is able to diffuse through the ground and through the walls of the intake pipe. New York State is thinking it may have to provide an emergency source of drinking water.

We stopped at a mall for lunch and mixed - and I chatted - with Jehovah's Witnesses who were having a convention there.

Love Canal: a household word in the past few years, and yet not the most serious of the dumps as far as widespread contamination goes. It is an idyllic, lush region, not the desert that many imagine. All the houses that were built on top of the dump had been torn down. In the outer rings some were torn down, some were boarded up and vacant, and some were occupied still by those who chose to remain. Where the houses were gone, the trees and grass remained, and we saw a pheasant. Here again, the problem was underground; the residents'

basements had filled with fumes and there were incidents of birth defects and cancer. A school was built right on top of the dump. It still stands but will be torn down this summer. State officials have put a clay cap on top of the dump and a concrete wall along the end which drains toward the Niagara River.

One of the most asinine places to put a dump is right on a river bank. That's exactly where the 102nd Street dump is. In times of high water, people can see barrels of chemicals float out of the dump into the Niagara River.

Our last stop was the Hyde Park site, which is the largest single location of 2,3,7,8 tetrachlorodibenzoparadiioxin (TCDD or "dioxin") in the world. It is the most poisonous man-made substance known and is an inevitable but unwanted by-product of herbicide manufacturing. (Neither can the herbicide 2,4,5 trichlorophenoxyacetic acid be purified of it entirely.) One ton of the stuff at least is in the Hyde Park site; one pound at most has escaped, but this is still a serious contamination problem. It has been found in the tissue sample of a Kingston area resident and is suspected of being behind the gull deformations and breeding problems in the 1970's. It can do this in the part-per-trillion range. A creek called Bloody Run drains the dump area and often is reported to have unusual colours in it. We did not see the creek. The vegetation on top of the dump seems reasonably healthy, though I did see one poplar almost as red in its leaves as a Crimson King Norway Maple. Phragmites grass, poison ivy (ironically), teasel, sumacs and wild geranium were thriving. We heard song sparrows.

As we left we had another brush with religion. Some pilgrims to the Fatima shrine had been left behind by another bus and we picked them up.

I came away with some concern for our drinking water but also it made me think about Toronto's own guilt: the Keating Channel silt, the Junction Triangle, and the Don and Humber Rivers. People now have their eyes on the Niagara River but Black Creek may be as much of a problem for Toronto itself. One tributary arises in the Ingram Drive incinerator landfill site. Whenever I have seen it, it has been a ghostly gray colour. Another tributary flows through North Park. Once I saw it white and milky with cement dust suspended in it. On another outing I saw rusty barrels with chlorinated solvents in them on a parking lot right next to the creek. And another factory had drains (not flowing at the time) emptying directly into the creek. This factory had a foul smell. These are matters that will need investigation and I mentioned them to Colin Isaacs. Could any member that sees a pollution problem in an Ontario stream call 424-3000 (Ministry of the Environment)? One has to be persistent with them, and it helps if (1) more than one person calls about the problem, (2) precise information is given (the company responsible) and (3) the problem is habitual.

Gavin Miller (923-1909)

We have received a copy of a letter sent by Gary Eisenhammer to Mr. Mierzynski of the Ministry of the Environment regarding water pollution in his neighbourhood in North York. Gary also sent copies of the letter to the F.O.N., the City of North York and to his M.P.P. This is the kind of citizen involvement that is needed to generate action by people with authority, and we congratulate Gary on his sense of civic responsibility.

TORONTO REGION MAMMAL RECORDS

SCARBORO BLUFFS (Feb./83)

Red Fox - Feb. 5, at 5 PM. Metro park on top of Scarborough Bluffs (E. of Midland Avenue, at the end of Scarborough Crescent).

The fox was trotting unhurriedly along the human footpath which parallels the bluff edge, and passed within 20-25 ft. of me without paying me any attention, then disappeared into nearby trees and bushes where I couldn't see its progress any more. Maybe the fox wasn't excited, but I sure was - I've never seen a fox at such close range and during the day when I could get a good prolonged look at it.

Maryjka Mychajlowycz

NEW TORONTO (Apr./83)

Muskrat - Apr. 2, 8 AM. Another mammal sighting for your file! A large, fat, rusty-brown furry mammal with a hairless tail almost as long as its body was ambling along the shingle beach beside Lake Ontario. When it realized that it was being observed, it "quickly" headed back into a hole between the huge armour stones placed along the shore. When I pointed to it, my owner* was able to identify it as a muskrat, but was surprised to see one along the shore of one of the Great Lakes, rather than beside a river.

Becky



HUMBER MARSH (Apr./83) To Bea-ver or not to Bea-ver...

Beaver - Apr. 2. The number of trees that have been cut down by the beaver(s) in Humber Marsh Number Four is increasing. At least fifteen were noted on April 2, 1983. These are large 10-20" diameter willows and poplars. However, they are not even being used. They are too small to build a dam across the Humber River. Several are ringed to a narrow V but have not fallen. What will happen to the character of this marsh if many more trees are killed? If developers were being this destructive, we'd be up in arms, taking them to court, insisting on an Environmental Impact Assessment right away. So - what do we do with the beavers? What a naturalist's dilemma! The Marshes are beautiful and extraordinary the way they are. And to think a wild mammal like a beaver has taken up residence there, so close to the heart of the city. I found it incredible until I started to tabulate the increasing destruction. How should TFN deal with this situation? Any ideas?

Beth Jefferson

METRO ZOO (May/83)

Eastern Chipmunk - May 4, 10, 14. Each time I went to the Zoo in May, I couldn't help noticing at least three to five chipmunks. On May 14 there were three together on the roadway gleaning under the feet of zoo-patrons (to the delight of the latter of course). One was seen scavenging in a garbage-bin.

Diana Banville

*Beth Jefferson

OAK RIDGES (May/83)

Woodland Jumping Mouse - May 21/83 - TFN Outing. With its muted brown back sharply contrasting with its golden-rufous sides and long tail extended, it "froze" in the forest litter hoping not to be seen. We studied it for some time at close range before it sprang into a little opening under tree-roots, then turned to face us, peering out of the hole. Soft sheen to the fur.

Diana Barville

G. ROSS LORD PARK (Feb., Mar./83)

Small Mammal evidence - Feb. 4. In dead grass covered by snow, tunnel with two openings visible on opposite sides of human path and, leading from opening to opening, tiny animal tracks.

Eastern Chipmunk - Mar. 17 one; Mar. 20 three together.

Red Squirrel - Feb. 14 one; Feb. 15 two zoom up tree in spiral path, one right behind the other, both chattering loudly.
Mar. 2 - two individuals; Mar. 15 two individuals.

Grey Squirrel - Mar. 17. They're always around, but on this date a squirrel, not looking where it was going (it was looking at me, I think) ran headfirst into a tree and bounced off, apparently unharmed.

Muskrat - Mar. 1, one; Mar. 2, two individuals; Mar. 4 one; Mar. 5 two in same lagoon where I first saw two on Oct. 31 and on Nov. 10.
Mar. 8, two in same lagoon; Mar. 18 one.

Groundhog - Mar. 18. Two came out of hole together. First groundhog sighting of 1983. One observed March 30.

Raccoon - Mar. 12. Fresh raccoon tracks. First fresh tracks since Oct. 25. (Last raccoon sighting Oct. 1.)

Red Fox - Mar. 5. one individual observed.

Sandy Cappell

HIGH PARK (May/83)

Brown Rat - May 18. TFN Outing. A rodent was seen swimming in the large (or Norway Rat) duck pond. It sprang to shore and bounded off. It was not very large (appeared about the minimum size for this species, 12" tail included). Quite brown.

Eastern Chipmunk - May 18. TFN Outing. Only one individual noted on this outing. Anyone counting chipmunks in High Park?
Diana Barville

DOWNTOWN (July/83)

Bat sp - July 20 - Two flying over gardens of St. Michael's College at dusk, 9 PM. Another (immortal?) "cruising Church and Isabella" about 10 PM one July night.

Aarne and Helen Juhola

[Note: Apr. Issue 355, Jan. 18 downtown raccoon sighting also A& H. Juhola]

REPORT YOUR SIGHTINGS TO ANY MEMBER OF THE EDITORIAL COMMITTEE.

BURKE BROOK, REMEMBERED (1955-1965)

To come up with my last sightings of the Striped Skunk, I have to think back to the late fifties and early sixties in the Burke Brook area where I used to live (Lawrence and Avenue Road). I used to look out of my window when awakened at night by the loud cries and grunts of the mammals which used the unpaved mutual driveway as a runway to the ravine. In the moonlight I saw skunks passing through, on one occasion a mother with diminutive offspring following her in single file. What could be more charming? Of course, there was the Raccoon too - I can't get over the size of one which, standing on its hind feet, drank from the pedestalled bird-bath, with its forepaws on the bowl. A raccoon-family used to climb a tall mountain-ash and gain access to the attic next door. My mother told me how she watched a raccoon one day removing the lid from our garbage-can. It struck each side of the lid alternately, making it go into a rocking spin till at last it fell off. "It was too cute!" she said. One quiet sleepless night I looked out and was amazed to see, in silhouette, a tiny weasel undulating its way down the drive; it was so small for a weasel, I thought, and what a stubby tail! It was a few years before I bought myself a mammal field-guide* and, of course, the mammal turned out to be the Least Weasel. (It's mentioned in the study** that Beth Jefferson worked on for the Ontario Field Studies Centre.) In winter it is ermine-white like the short-tailed and long-tailed weasels but has no black tip on the end of its tail. Now, about the White-footed Mouse - I believe it would be individuals of this species which got into our house at times until at last I found ways of sealing them out. They were very handsome with beautiful coats of several colour-phases, with underside immaculate white including the feet. Once I was working at dusk at the back of the garage and surprised a mother-mouse which left in great alarm, abandoning her meticulously-made nest of fibres which looked like hemp from someone's rope; it was cup-shaped and very thick-walled, bigger than a baseball - and empty. I recall thinking "what a pity!" (There seems to be less information on the habits of the Deer Mouse than on those of the White-footed. You need a close look to distinguish the two; both have a variety of colour-phases, but the Deer Mouse has a sharply bi-coloured tail - brown above, white below, with tufts of long hairs at the tip.) During the day I used often to see the Grey Squirrel which used the bird-feeder. I remember one black individual with a ruddy tail which astonished me. Now, of course, such colour-combinations are becoming more and more common in Toronto. Oh, yes, and there was the Eastern Cottontail which sometimes basked in the sun on the back-lawn. Though it appeared to doze, the moment I set foot in the garden it would spring up and away.

I stayed in my Cranbrooke bungalow till 1975 but in the meantime, the rustic wooden bridge over the brook had been replaced by a footpath over fill. (The area to the south, where the sledding-hill used to be, had been filled for a municipal parking-lot, the north side bulldozed for something that never happened (because the Cranbrooke home-owners fought re-zoning). Car-owners moved in next door and the mutual drive was paved. It is to these events and the increase in the local dog-population that I attribute the decrease in the wild mammals, the end of my "parade".

Diana Banville

*A Field Guide to the Mammals by Burt and Grossenheider (Peterson Series)

**A Guide to the Woodlot at the Claireville Conservation Area

See also "Searching for Sources - Burke Brook" - by Gavin Miller
TFN (351) 15-16, N 82

ENVIRONMENTAL GROUP REPORT

At the March meeting of the Environmental Group, Mary Smith gave a slide presentation of her adventures and travels in a 10-horsepower Zodiac boat along the Lake Ontario shoreline from Scarborough Bluffs to Burlington Bridge. Mary and her husband covered the area during 1981 and 1982 in six sections.

Although there were many beauty spots, lovely walkways, and attractive water birds along the way, unfortunately many of the scenes Mary had to show were of the sorry state of how people treat the shoreline as a public disposal. Looking at the shoreline from an inside-the-lake vantage point made us more aware of human damage and poor management.

One of the highlights of the trip was an especially beautiful natural shale formation Mary discovered near Burlington. She wrote to the Halton Region Conservation Authority to try to ensure that it would be protected.

The April meeting featured a progress report of Metropolitan Toronto and Region Conservation Authority's Environmentally Significant Areas Study by Janice Doane, Dave Dice and Peter Wigham. The staff members of MTRCA reviewed the development and background of the ESA study from 1978 to the expected final draft at the end of June 1983. After the final draft is approved by the Authority, it will be released to municipalities and other agencies, including the TFN. The identification and preservation of ESAs will continue to be an ongoing process. The MTRCA welcomes new or additional information on ESAs from TFN members. Helen Juhola has data sheets for this.

Management plans of MTRCA were also discussed. The MTRCA has implemented a density bonus incentive program to encourage developers to provide reforestation and planting by allowing more lots to developers who follow MTRCA guidelines. This does, however, mean smaller lots. Woodlot improvement and quality management are also concerns of MTRCA. TFN members suggested that native species and natural habitats be given preference and that planting be done in natural patterns rather than rows which follow surveys. Dave Dice felt there is a need for more research as to which native species grow easily and what is the most economical way of propagation and providing habitats.

Melanie Milanich

(690-5925 - home)

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|--|
| <p>From a northern train, Aurora borealis. All is in motion.</p> |
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(haiku by Diana Banville)

Keeping in touch . . .

Dear Diana:

March 15, 1983

"Everything comes to those who wait" and last monday the Embassy phoned. I have been accepted for 'permanent residence in South Africa'...expect to be away before Easter...of course I will send you some observations from South Africa from time to time...Enclosed the remains of my darling starling buttons...keep a good eye on *Sturnus vulgaris*. There are none in Durban, S.A. and I will have to be content with observing the mynah birds which came over from India and really are very enterprising and much hated there! Already I like them...

Joy (Pocklington)

Ed. Note: We're not saying "good-bye" to Joy because she is going to be very much with us through her articles in the newsletter. Waves of good wishes will be going out to Joy in her new home from all of us who know her and have received from her work so much of that commodity which bears her name.

Dear Diana:

March 17, 1983, 2:30 AM

You do not know me so I hope I'm not imposing on you. I work at the Post Office and when your parcel full of buttons came to my station it was ripped and out came the button "STARLINGS ARE DARLINGS". While repairing the parcel, I decided to write and find out where you got them since there was no return address. I like birds and I like STARLINGS. A lot of people don't. I have an article from The Star about a pet starling, and I've heard they can even learn to talk. I've got a nesting box in the backyard and I feed them peanut hearts, which they love. Could you let me know where I can get one of those buttons?...I hope you got all the buttons you were expecting to receive. Hopefully none fell out before it got to me and was repaired...

Michelle Renwick

Ed. Note: Gratefully we dispatched to Michelle one of the buttons which she had rescued. In her, too, we have a welcome member - brought to us, you might say, through the courtesy of Joy and her starlings. The remainder of the buttons will be available at the next TFN general meeting. You may pick one up while they last - if you dare - remembering Joy's rules: "To be WORN - and not under a coat on a dark night".

Congratulations for the splendid newsletter, with its attractive cover designs and much interesting material which adds to one's knowledge.

Marion Nicholson

1982 NEWSLETTER INDEX is available free at TFN General Meetings.

COMING EVENTS

COMING EVENTS

Royal Ontario Museum

The Discovery Gallery at the ROM is now open from 12:00 noon to 4:00 p.m. weekdays, and from 1:00 to 5:00 p.m. weekends and holidays. Science specimens from fossils to insects are available for examination, and research tools such as microscopes, magnifying lenses and reference books are provided.

The Heritage Canada Foundation

The Heritage Canada Foundation and the Ontario Heritage Foundation will sponsor a conference on September 22-25 at the Royal York Hotel, Toronto. Participants will examine critical aspects of the city in the final decades of the 20th century, with particular reference to private, commercial and recreational facilities. For further information, contact:

Conference Co-ordinator,
21 Sackville Street, Toronto, Ontario. M5A 3E1
Telephone: 864-9753 or 868-1972

Presqu'ile Provincial Park

On September 3, 4, 5, visitors to Presqu'ile Provincial Park will be able to see the fascinating process of fall migration. Bird banding demonstrations will be given and there will be special slide shows and hikes.

Clive and Joy Goodwin

The Goodwins are planning the following activities in September. For further information, call them at 249-9503.

Sept. 17-18 - Presqu'ile Park Birding weekend. Participants provide their own transportation.

Starting Sept. 26 at 7:30 p.m.) 4 week course,
Starting Sept. 27 at 2:00 or 7:30 p.m.) "Birdwatching in Fall"

Royal Botanical Gardens

RBG has planned a number of activities of interest to TFN members. Further information about these may be obtained from:

Royal Botanical Gardens
Box 399, Hamilton, Ontario. L8N 3H8
Telephone: 527-1158.

A course on the identification, ecology and edibility of mushrooms will be offered September 24, 26, 27. The course will include a collecting field trip to Norfolk County on Saturday, a laboratory session and tour of Leaver Mushrooms Company Monday and Tuesday evenings. Registration required by Sept. 12. \$8.00

Autumn Wildflower Studies - Sept. 7, 14, 21. 9:30 a.m. No charge.

Ferns of Cootes Paradise - Sept. 10. 9:30 a.m. No charge.

Morning Bird Walks, Sept. 11, 25. 7:30 a.m. No charge.

Hayrides along the Nature Trails - Sept. 13, 14. Register by

Sept. 9 by calling Brian Holley, 529-7618. No charge.

Identification of Native Shrubs - Sept. 17, 9:30 a.m. and

Sept. 19, 7:30 p.m. Register by Sept. 16. \$5.00.

People and Plants - Sept. 25. 2:00 p.m. Register by Sept. 22 by

calling Brian Holley, 529-7618. \$1.00.

Plants Indoors - Sept. 15, 22, 29. 8:00 p.m. \$1.00 each session.

Weather Course - Sept. 29, Oct. 6, 13, 20, 27. 7:30 p.m. \$15.00.

BLACK CREEK PROJECT

A community action group, the Black Creek Project, has been formed to protect the northern part of Black Creek, still in a semi-natural state, against "development" pressures. South of Lawrence Avenue, the creek is already a concrete storm sewer. You can write a letter of support to the Black Creek Project, Box 324, Station A, Downsview, Ontario. M3M 3A6. You can also phone TFN member Gavin Miller at 923-1919 (home) who can direct you to the Project co-chairmen Sandy Agnew and John Maher for more information.

Phone Gavin also if you want to join an inspection tour of Black Creek between Steeles Avenue and Highway 7 led by him, Sandy and John on Saturday, September 17. Bring lunch and meet at 10:00 a.m. on the east side of Jane Street in the second private driveway (there is a mailbox) north of Steeles.

An Evening with Owls

The Elsa Wild Animal Appeal of Canada will present "An Evening with Owls" Tuesday, October 4, at 8:00 p.m., at The Auditorium, 252 Bloor St. West. Larry and Kay McKeever of The Owl Research and Rehabilitation Foundation, Vineland, will share some of their adventures and misadventures in their work with owls. \$3.00. Telephone 489-8862 or 781-6492.

Wildlife Art Weekend

The ROM is sponsoring a Wildlife Art Weekend, September 30-October 2. Lectures, demonstrations and field trips will be featured. For further information, contact Creative Arts Studio, ROM, 100 Queen's Park, Toronto, M5S 2C6. Telephone 978-7248.

Sheridan College, Oakville Campus

A two-semester, 24-week evening course entitled Bird Study II will be offered at Sheridan College commencing Wednesday, September 14, 7:30 p.m. Rosemary Gaymer will be the instructor. For further information contact:

Continuing Education Division, Sheridan College,
1430 Trafalgar Road, Oakville. L6H 2L1.

Telephone: 845-9430 (Oakville); 823-9730 (Clarkson); 632-7081 (Burlington)

University of Toronto

The School of Continuing Studies, U. of T., has an extensive program of courses for 1983-84, such as Crystals, Minerals and Rocks; Edible and Poisonous Mushrooms; Introducing Astronomy. For information, contact:

School of Continuing Studies, University of Toronto,
158 St. George Street, Toronto. M5S 2V8.
Telephone 978-2400

SAVE OUR STREAMS PROGRESS REPORT

The Save Our Streams success story continued through the summer months with three streams receiving attention to date. Highland Creek in Scarborough has been relieved of literally tons of junk gathered from 5.5 miles of bed and banks by SOS workers. The fifteen workers, employed under a Federal Immediate Employment Stimulation Grant, have also completed four separate erosion control projects on Duffin Creek near Claremont and a large log-frame deflector on the Credit River at the Forks. Those TFN members interested in participating in a one-day workshop and tour of the summer's work sites to see some fantastic examples of stream improvement are encouraged to call Margo McCulloch at the SOS office (416) 233-6931. The workshop and tour are scheduled for September 17, 1983 and will include a guest speaker Doug Dodge of the Ministry of Natural Resources. Transportation will be available to a limited number of participants.

Margo McCulloch
Project Manager, SOS Inc.

TFN MEETINGS



GENERAL MEETINGS

Board of Education Centre, 6th Floor Auditorium
155 College Street, at McCaul

Tuesday, September 6, 1983, 8:15 p.m. (Coffee at 7:30)

Wildflowers of Ontario

James L. Hodgins, co-author of Flowers of the Wild: Ontario and the Great Lakes Region

This will be a one-hour talk with coloured slides from the author's book, FLOWERS OF THE WILD: ONTARIO AND THE GREAT LAKES REGION. The major types of plant habitats and their plant species will be presented, as well as a look at the available literature on Ontario wildflowers.

There will be a book-signing by the authors after the talk.

Monday, October 3, 1983, 8:15 p.m.

Janice Palmer will be speaking about citizen involvement in environmental problems.

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GROUP MEETINGS

Bird Group (Jim Woodford 444-7939 (home).)
Meetings will resume in October.

Botany Group (Steve Varga 223-4151 (home).)
Thu. Sept. 15 7:30 pm Plant Identification Workshop - Asters, Goldenrods.
(Easy-to-use guides will be available, including
Guide to Goldenrods in Ontario by John Semple \$6.00.)
Location: Room 207B, Botany Building, U. of T.

Environmental Group (Melanie Milanich 690-5925 (home).)
Thu. Sept. 22 7:30 pm Group discussion on summer projects and areas of interest.
Raise your concerns about outstanding issues and bring suggestions for fall and winter meetings. Bring slides of interest to the group.
Location: Huron Street Public School, 541 Huron Street
(1 block west of St. George Subway Station).

Junior Club (See also page 21)
Sat. Sept. 10 10:00 am Mushrooms - John Morgan-Jones, Associate Professor,
Botany Dept., U. of T.
Location: Planetarium Auditorium, immediately south of
Royal Ontario Museum.



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EDITORIAL COMMITTEE

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Members are encouraged to submit notices, reports, articles up to 1500 words in length, and illustrations at least six weeks before the month in which the event is to take place or the material is required to appear.

MEMBERSHIP FEES: Family (2 adults, same address) - \$20.00
 Single - \$15.00
 Senior Family (2 adults, 65+) - \$15.00
 Senior Single - \$10.00
 Student - \$10.00

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