

**Organization of
Biological Field Stations**

**Newsletter
No. 45
Winter 1987**

OBFS



Number 45

Winter 1987

Newsletter Editor

Joseph F. Merritt

Powdermill Nature Reserve

Carnegie Museum

Star Route South, Rector, PA 15677

Newsletter

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HAPPY
HOLIDAYS

I.

MINUTES - 1987 ANNUAL MEETING FOR BUSINESS

SEPTEMBER 19, 20 1987

BODEGA MARINE LAB AND COASTAL RESERVE (BML)

1. In attendance: Please see Appendix I for a list of those attending and their affiliation.
2. President Layne called the meeting to order at 8:25 p.m., September 19, 1987. There was an abundant out pouring from those assembled, of gratitude and appreciation for the gracious hospitality extended by the Bodega Marine Lab, represented by Peter Connors, Paul Siri, and associates. Especially highlighted were the wonderful food, the field trips to beautiful habitats at the B.M.L. and nearby, the introduction to first rate facilities both scientific and residential, and the intellectual stimulation afforded to our group of visitors. President Layne, on behalf of all in attendance, also thanked Dick Bovbjerg for the eloquent keynote address, with which he entertained and informed everyone concerning the history of our "guild".

President Layne also thanked Dick Hartman for his many contribution to OBFS and wished him well in his retirement. We all hope and assume that the latter does not signify any diminution of his enthusiasm for OBFS in the future.

President Layne extended a warm welcome to new and returning station directors and other members of the group.

3. The minutes of the previous meeting (Sept. 26, 1986 at Cedar Point Biological Station) were approved as distributed in a prior Newsletter.
4. Report of the secretary/treasurer (Dick Coles):
 - a. Membership: our ranks have swollen to 128 members (77 station members; 51 individual members. Since the last meeting we have gained ten new members, there have been seven resignations and ten changes in directorship at member stations. These are detailed in Appendix II.
 - b. Treasurer's Report: Please see Appendix III for details. In the past year the balance in our checking account has risen from \$9290.30 to \$12,748.07, an increment of \$3457.77. We also possess a \$5000 C.D., so our current net worth is \$17,748.07
 - c. In discussion, the matter of renewal of our \$5000 CD (expires October 2, 1987) was deferred to a committee of officers. (Note: Subsequent to the business meeting this committee met and decided to replace the old CD with a new CD in the amount of \$7500, with a one year life span. This was accomplished on October 2, 1987. The new CD is #6837 @ 6.5% interest, at the Jefferson Bank,

Eureka, Missouri. To those who may notice, the bank we use in Eureka has undergone a name change.

d. After additional discussion it was moved, seconded and passed to raise the ceiling on reimbursement to Washington University for secretarial time from \$650 to \$700. Actual cost in the current year was \$659.40

5. Report of the Editor (Joe Merritt): Joe now prints 150 copies of the semi-annual Newsletter. The Fall/Winter issue of the Newsletter summarizes the annual meeting, presents news from NSF, distributes the membership list (in a format suitable for copying onto Xerox peel-off labels), and when possible, includes field stations descriptions. The latter are voluntary contributions from generous members; they are much needed and most appreciated. Dan Dawson, Corky McReynolds, and Jeff Burkhart offered to provide descriptions for use in the upcoming issue(s). A competition among submitted designs for an OBFS logo for the Newsletter and elsewhere is underway. The winner will be selected by the publicity committee. Joe solicited suggestions for further improvement of the Newsletter.
6. Report of the AIBS Representative (Jerry Rozen): Jerry reported on his recent attendance at AIBS meetings in Washington including a gathering which focused on the lobbying of representatives and federal officials by AIBS and the support and advice it offers to member organizations wishing to do lobbying for their cause. The new president of AIBS is H. Edward Kennedy. AIBS is considering exercising the option it has to purchase the building in which its offices are housed. However, in meetings related to finances it emerged that severe problems have arisen in the fiscal area under the supervision of its recent business manager. A new business manager now on the scene is working to clear up the confusion which currently beclouds the situation regarding the building purchase and other projects. A full rendition of Jerry's report appears as Appendix IV.
7. Report of the Poster Editor (Susan Allen): Mark Noble has resigned as a consequence of his having accepted a position in Australia as director of a field station of the School for Field Studies, and recruited Susan Allen to fill the resulting void. Susan will soon send out a letter to station members soliciting listings and information. It was decided to continue the present charge of \$60. The poster will appear in mid-winter. To publicize the availability of the poster, an attempt is made to place announcements in professional newsletters, etc. Anyone having the address of an editor of such a publication should send it to Dick Coles who will request the placement of a notice.
8. OBFS slide show: The secretary is presently curating the distribution of the slide show to members who request it. Those wishing to borrow this promotional tool should contact Dick Coles. As determined by the level of interest, additional copies of the slide set will be made.

9. Report of the Historian (Bob Fisher): Bob would like to assemble photographs and other memorabilia associated with our origin and early meetings. To this end he earnestly requests that anyone having such information please share it with him. He will make copies of photographs and return the originals unharmed. Dick Hartman and Dave Parmelee offered to examine archival materials in their possession, and submit appropriate items. Meanwhile Bob is preparing a brief history of OBFS for an upcoming Newsletter.
10. Standing committee on Administration & Facilities (Jim Pratt, in absentia): Jim has left Hancock Biological Station and moved to Penn State University. His report which summarizes responses to a questionnaire which appeared in a prior Newsletter, will appear in a future Newsletter. This compilation will relate to housing and associated issues.

Contact with TIAA/CREF has been made to explore whether OBFS or its members might qualify for participation in their fringe/retirement benefits programs. A final response has not been received, but there has been a request that we verify our tax-exempt status with copies of documentation from the IRS. No one on the scene recalled where such documentation might repose. (The secretary/treasurer does not find same among the materials in his possession, though we do have a number and have asked the IRS to provide us copies of documents related to the number). Bob Fisher and Dick Hartman agreed to examine archival material in their possession. Dick Bovjberg, one of the founding members, recalled that incorporation had occurred, in the state of Minnesota. Clarification of our situation may require a few months time.

11. Standing Committee on Education (Mark Paddock): The report of results from a recent survey has appeared in the Newsletter No. 43, December, 1986.
12. Standing Committee on Program (Ken Armitage): This year's program at the annual meeting is nearly completed; the chairperson for next year's meeting is Jerry Rozen, with the following committee members: Peter Connors, Paul Siri and Jeff Froke (host of the meeting). Suggested topics for discussion are most welcome. One, on data management at field stations has been received and will be passed on to the committee.
13. Standing Committee on Research (Art McKee): The committee asks - What should we be doing for OBFS? Possible activities suggested by the committee include: promote a discussion of data base management and interstation communication; compile descriptions of environmental monitoring programs extant at various stations - how data is collected and made available; stimulate an annual update at the annual meeting about new programs which might influence members; provide an evaluation of software in the area of Geographic Information Systems (G.I.S.) (an activity supported by NSF in several awards mentioned earlier by Jim Edwards of that

agency), in order to bring members up to speed; explore funding sources (Art provided attenders with copies of an Ecological Society Bulletin on Federal Sources of Funding and, from the Dean of Research at Oregon State University, a book on Research Opportunities and Fellowship).

During discussion, the notion of having a G.I.S. demonstration at next year's meeting was favorably considered and is suggested to the Program Committee. Jeff Kennedy offered that his office is willing to compile and present a small video on this topic for next year's meeting. Jeff also requested/suggested that copies of each station's master plan be made available at the meeting or in some other format. It was observed that this project is not under the purview of the research committee and perhaps belongs to the administration committee.

George Lauff inquired whether there might be areas of mutual concern and interest which OBFS members share with some of the large National Laboratories. He suggested that mere correspondence would be inadequate for exploring such overlapping interest and that some kind of meeting might be worthwhile. A potential topic for discussion would be environmental monitoring programs.

14. Ad hoc committee on revision of the OBFS Constitution and By-Laws (Dick Hartman): A draft of a proposed revision was distributed (9/19) as a basis for future discussion (on 9/20). The purpose of the effort is to achieve a closer relationship between the actual operations of OBFS and the terms of the governing documents.
15. Future Meeting Sites: Upcoming annual meetings are scheduled as follows -

1988 - Maine coastal facility of the National Audubon Society. In the absence of Jeff Froke, the host, Peter Connors reported the following arrangements. Dates - Sept. 8-11. The site is on Hog Island, a part of the Todd Wildlife Sanctuary. Travelers should plan on flying to Portland, thence via local commuter to Damariscotta where they will board a boat to Hog Island. During the meeting there will be boat trips to other islands where projects are underway. Several slides were shown to further acquaint those present with the nature of the hosting facility.

1989- Rocky Mountain Biological Laboratory/Pikes Peak Research Station. Again the meeting will be moved forward to the second weekend in September, (so the water pipes will not be so likely to freeze), and will extend over Wednesday to Sunday. Conditions will be rustic. Travel via Colorado Springs. The group will travel in a loop to permit visitation at the two facilities.

1990 - Lake Itasca, Minnesota

1991 - Invitation needed....

* * * * *

At this juncture (9:40 p.m.) a recess was declared.

* * * * *

President Layne reconvened the meeting at 8:00 a.m. Sunday

16. Ad hoc committee on the brochure (Laura Carter): The committee has solicited input from members. None came forth during discussion. The brochure, which would be distributed to member stations, to our clientele, to those who receive the summer course announcement poster, to societies (including Tri-Beta, Phi-Sigma, the undergraduate chapters of appropriate professional societies such as the Wildlife Society), to associations of science and biology teachers, and by direct mail to those who respond to announcements placed in magazines such as Audubon and Sierra Club News. Insofar as possible, additional distribution would be as an insert in another publication and postage would be contributed by the publication.

There was much conversation about how to proceed. The committee described its concept as including the message that field studies are fun and important, and so are field stations. There will be a map showing the locations of OBFS members and, by coding, giving names, addresses, and habitats represented. If a suitable logo is selected (see below), it will be included.

After discussion about costs and how these should be met, it was decided that the project should be taken on by OBFS as an organizational activity. There would be no charge to the listed stations, etc. If stations want copies in numbers beyond those which will be sent out to all members, they will be required to pay for such extra copies. A motion was passed to provide funds up to a cap of \$7500. for the design, production and printing of a brochure. Depending on the printing strategy selected, this should provide for at least 25,000 copies, perhaps more.

The committee was expanded by the addition of Jeff Kennedy and Paul Siri who volunteered to assist, and was instructed to move ahead with the project up to the cap indicated with significant expenditures being approved by the executive committee. In addition, the mission of the committee was broadened to become a group for public relations and marketing on behalf of OBFS and the purposes of its members.

17. Ad-hoc committee on Revision of the Constitution and By-laws (Dick Hartman): The proposed revisions as seen in the draft distributed previously were reviewed and discussed. The revised version will be presented to the entire membership in the fall '87 Newsletter and an election to adopt the revised version will be a part of the Ballot. Significant verbage apparently relating to the requirements for a tax exemption are present in the current document. Dick Hartman awaits an opinion from the legal

counsel of his institution, University of Pittsburg, and will include or delete those sections depending on that recommendation. He will also add whatever terminology that may be necessary to insulate the officers and agents of OBFS from legal action in redress of negligent acts made in good faith and without malice. The new arrangements, especially those regarding our incorporation as a tax exempt organization, may require a periodic audit of the OBFS books. This may cost us something, unless the donation of auditing services might be secured.

It was observed that the present practice includes the semi-automatic ascendancy of the vice-president to the presidency. With two year terms for each office the pair of offices represent a four year commitment on the part of the victim of the electoral process. Hartman pointed out that the new wording proposal allows for less than this, 'though a 4 year cycle would still be possible.'

There was brief consideration of establishing an Honorary or Emeritus membership category, but no such step was taken at this time.

18. Ad Hoc Committee on a Directory (George Lauff and Joe Merritt): George Lauff summarized the long history of the directory effort. It was announced that, owing to the pressure of other commitments, Lauff has asked to step aside from the chairmanship of this group. Joe Merritt has agreed to step forward and presented a sample of a directory format which resembles that of a campground guide. This would include a location map to field stations, a matrix using codes to summarize the resources to be found at the listed stations, and a more extended (1 1/2 page) synopsis describing the research activity and more site specific features of each listed station. There might also be a listing of stations according to the biomes available for study.

The purpose would be to promote use of field stations by helping researchers, including graduate students, to select a study site. In addition, the document would facilitate planning for classes which may wish to visit several stations or varied ecotypes.

While the initial objective is to include, for the present, only OBFS members, it was suggested that stations not belonging to OBFS might be invited to participate by submitting descriptive materials as will the OBFS station members.

19. Regarding the logo matter (Joe Merritt): As editor, Joe projected two draft logos for the consideration of the group. Others were contributed from the floor. The consensus was for the Newsletter to present these to the membership for voting their preference as part of the ballot.
20. Ad hoc committee on Nominations (Lauff, Shaw and Sherbrooke): Chairman Lauff reported that the committee presents Jerome G. Rozen, Jr. as the nominee for the office of Vice-president, the

only vacant office at this time. There were no additional nominations from the floor. The name of this nominee will appear on the ballot along with an empty line on which write-in votes may be submitted.

21. In response to an invitation from the Association of Systematic Collections, it was voted that we not join that organization at this time. The 1988 meeting of AIBS will focus on Biological Diversity, our participation has been invited. While it is to be hoped that members of OBFS will attend the gathering, our practice of meeting at a member facility has been very successful and no change is merited.
22. It was recommended to the editor that copies of our Newsletter be sent as a courtesy to other organizations such as AIBS, AAAS and Tri-Beta.
23. The possibility of providing a travel grant to permit attendance at our annual meeting by a director of a field station not in North America was raised for our consideration. There was not sufficient time for exploration of this prospect which may deserve further consideration in the future.
24. Several times during the several days of our gathering, it was observed or suggested that the cause of field stations and financial support for them be appropriate federal agencies and programs could be fostered by a little lobbying on behalf of our cause. Such efforts could be facilitated through our membership in AIBS. Tax exempt status may limit (but not prohibit entirely) what can be done. Again, time limitations prevented adequate discussion of this option.
25. President Layne drew the meeting to a close with expression of his appreciation for the opportunity to serve as our leader for the past two years, and passed the gavel on to Ken Armitage of the University of Kansas. The meeting adjourned shortly after 10:00 a.m.

Respectfully submitted,



Richard W. Coles, Secretary/treasurer

THOSE ATTENDING 1987 OBFS MEETING FOR BUSINESS

Host Station: Bodega Marine Lab
 Peter G. Connors
 John Maron

Dennis Allen for J. Vernberg
 Belle W. Baruch Institute
 South CarolinaC

Susan Allen
 Rocky Mountain Biological Lab
 Colorado

Kenneth B. Armitage
 Experi & Applied Ecology Program
 Kansas

Nevin Aspinwall
 Reis Biological Station
 Missouri

Richard V. Bovbjerg
 Iowa Lakeside Laboratory
 Iowa

Jeffery T. Burkhart
 Phillips Univ Field Campus
 Oklahoma

Daniel R. Dawson
 Sierra Nevada Aquatic Res
 California

Robert L. Fisher
 Raystown Field Station
 Pennsylvania

James R. Griffin
 Hastings Reservation
 California

Alan Grundman
 Jasper Ridge Biological Pres
 California

Richard T. Hartman
 Pymatuning Lab of Ecology
 Pennsylvania

Robert W. Hastings
 Turtle Cove Biol Res Station
 Louisiana

Stephen P. Havera
 Ill Natural History Survey
 Illinois

Lucile A. Housley
 Malheur Field Station
 Oregon

Tony Joern
 Cedar Point Biological Station
 Nebraska

Jeffery Kennedy
 UC Natural Reserve System
 California

Harold Klieforth
 Desert Research Institute
 Nevada

George H. Lauff
 Kellogg Biological Station
 Michigan

Lyndal Laughrin
 Santa Cruz Island Reserve
 California

David C. Mahan
 Au Sable Institute Environ
 Michigan

Arthur McKee
 Andrews Experimental Forest
 Oregon

Corky McReynolds
 Treehaven Field Station
 Wisconsin

Joseph F. Merritt
 Powdermill Nature Reserve
 Pennsylvania

Jerome G. Rozen, Jr.
 American Museum of Nat History
 New York

Richard Sage (for Wm. Porter)
 Adirondack Ecological Center
 New York

Gerald Scherba
Desert Studies Center
California

Ross F. Shaw
Thomas B. Crowley Laboratory
Washington

Wade C. Sherbrooke
Southwestern Research Station
Arizona

James A. Teeri
Univ Michigan Biological Sta
Michigan

Richard L. Wyman
E.N. Huyck Preserve, Inc.
New York

Individual Members

Jane Aloi for R. Gordon
University of Notre Dame
Indiana

Laura S. Carter
E.N. Huyck Preserve
(Bd of Directors)

Steve Davenport
Long Marine Laboratory
California

Margaret H. Fusari
UCSC Natural Reserves
California

Dennis Johns
(no affiliation)
Colorado

Mark W. Paddock
Univ Michigan Biological Sta
Michigan

David Parmelee & Jean
Itasca & Cedar Creek
Minnesota

John Smiley
Big Creek Reserve
California

Linda Vescio
Cedar Point Biological Station
Nebraska

James L. Wolfe
Archbold Biological Station
Florida

Ellen Woodard (for R. Barrett)
Sagehen Creek Field Station
California

Visitors

Jim Edwards
National Science Foundation
Washington, D.C.

Mark Silberstein
Elkhorn Research Reserve
California

CURRENT STATUS OF OBFS MEMBERSHIP

128 members - 77 station members; 51 individual members
10 new members, 7 New Directors at Member Stations
7 resigned

NEW MEMBERS

Dr. Charles Brand - Newfound Harbor Marine Institute
Dr. Alan Ek - Cloquet Forestry Center
Dr. Margaret H. Fusari - UCSC Nature Reserve Coordinator
Mr. James C. Gillingham - Beaver Island Biological Field Sta
Dr. Larry Liddle - Marine Science Center, Long Island
Dr. David C. Mahan - Au Sable Institute of Environmental Stu
Dr. John C. Ogden - West Indies Laboratory
Dr. William Porter - Adirondack Ecological Center
Dr. Dwight L. Spencer - Ross Natural History Reservation
Dr. Donald E. Stone - Executive Director O.T.S.

NEW DIRECTORS AT MEMBER STATIONS

Steve Davenport, Manager - Long Marine Lab
William DeMott - Crooked Lake Biological Station
Dr. Stephen Jenkins - Whittel Forest & Wildlife Area
Carl Merrill - R.S. Friedman Field Station
Dr. James A. Terri - Univ of Michigan Biological Station
John Smiley - Landels-Hill Big Creek Reserve
Dr. David C. Trydahl - White Mountain Research Station
Representative Unspecified - Lake Itasca Forestry & Biol Sta

RESIGNED

Dr. Robert Angell - High Altitude Laboratories
Dr. George T. Baxter - Knight Science Camp
Dr. D. F. Brown - Bishop's University
Dr. Robert S. Jones - Univ Texas Marine Science Inst
Dr. James E. Martin - Black Hills Natural Sciences
V. T. Parker, Sierra Nevada Field Campus
Paul Siri - Bodega Marine Lab

OBFS FINANCIAL REPORT

Balance Checking Account , September, 1986		\$9290.30
Income		
Dues	\$4261.20	
Interest on NOW	621.67	
Interest on CD	425.00	
		5307.87
		14,598.17
Expense		
Office and Miscellaneous		
Secretarial	650.00*	
Postage	144.35	
Phone (toll calls)	26.11	
		820.46
AIBS Dues		100.00
Newsletter		832.54
Slide Show - Cedar Point		97.10
		1850.10
Balance Checking Account September 24, 1987		12,748.07
Asset.....CD #5925 - \$5000.00...expires October 2, 1987		
Current Net Worth.....		\$17,748.07

*Actual cost \$659.40 78.5 hrs. @ 8.40

* * * * *

REPORT TO THE ORGANIZATION OF BIOLOGICAL FIELD STATIONS, 1987

by Jerome G. Rozen, Jr., O.E.F.S.

Representative to the AIBS

Dr. Rozen attended the AIBS Council meeting held in November, 1986 in Washington, D.C., with the representatives from other adherent societies. As in previous years, the activities of AIBS were reviewed with the Council, and Council members visited the Congressional Office Building. The group was divided into small subgroups, each of which was then able to discuss matters of particular interest with legislative representatives. Through this activity, members of the subgroup gained a sense of the political process in action.

At the council meeting, H. Edward Kennedy became AIBS President for the current year (1987). He is president of BioSciences Information Service in Philadelphia. During the year, AIBS co-sponsored a Congressional Fellow with the American Society of Zoologists; this person was a tropical biologist from UCLA, Dr. Lee J. Hannah. AIBS takes particular pride in the fact that BioScience received two national awards this year; this publication, because of its new format as well as its articles, is attracting increasing attention among biologists. Also, during the past year, AIBS initiated an effort to raise funds through a capital campaign which has resulted in establishing the American Foundation for Biological Sciences. This is part of AIBS' long-range plan to develop the National Center for the Life Sciences building in downtown Washington.

Dr. Rozen was appointed to the Finance Committee of AIBS and consequently attended the committee meeting in Washington in early August, 1987. The sense of this meeting was that AIBS is experiencing financial problems that are exacerbated because its recent business manager had suddenly failed to fulfill his responsibilities. Records of expenditures and fund balances had been unreliable, and business judgments made on them incorrect. Although this confusion lasted for only several months until the problem was identified, resulting problems will continue because of the low treasury reserve of AIBS and because the organization must at this time decide whether to exercise its option to purchase the building that it recently occupied in downtown Washington. A new business manager for AIBS is now on duty, and the financial affairs of the society are being carefully scrutinized and readjusted. Steps are being taken to avoid future disasters of this sort and the Finance Committee has recommended a number of business changes to the Board.

III REVISED CONSTITUTION AND BYLAWS OF OBFS

An ad hoc Constitution and Bylaws Committee was appointed in 1986 to review the current Constitution and Bylaws of OBFS and to make recommendations for revision of that document. It was the intent of the Committee to bring the Constitution and Bylaws into agreement with the present administrative and operational procedures of the Organization and to clarify points which were vague or unclear in the present document. The committee reported its recommendations at the Annual Meeting on September 20, 1987. There were discussions of the report from the floor and several modifications in the proposed document were accepted. Revisions to the Constitution and Bylaws must be approved by a 2/3 majority of the membership voting by mail ballot. Copies of the current Constitution and Bylaws and of the proposed revised document are enclosed. Institutional Members are asked to review these and to vote on the attached ballot.

Richard T. Hartman, Chairman
Richard W. Coles
George Lauff
David F. Parmelee
Jerome G. Rosen, Jr.

NOTE: The following proposed revision of the Consitution and Bylaws is based on the report of the ad hoc Constitution and Bylaws Committee submitted at the Annual Meeting of OBFS held at the Bodega Bay Marine Laboratory. It includes modifications recommended by members at that meeting.

CONSTITUTION AND BYLAWS

ORGANIZATION OF BIOLOGICAL FIELD STATIONS

CONSTITUTION

ARTICLE 1. The name of this organization shall be the Organization of Biological Field Stations. (OBFS).

A Biological Field Station is defined as a facility engaged in field research and/or instructional programs of biological or related phenomena.

ARTICLE 2. The purpose of this Organization shall be: the advancement of biological science through 1) the development of research and teaching programs at field stations, 2) the implementation of cooperation among these Stations, and 3) the dissemination of information about these Stations.

ARTICLE 3. There shall be two classes of membership: (a) Institutional and (b) Individual. Institutional membership shall be open to biological field stations which will designate a single representative, normally the station Director, who will cast the vote of the station and be eligible to hold office in OBFS. Individual membership shall be open to persons, regardless of institutional affiliation, who subscribe to the purposes of the Organization. Individual members will have all the privileges of membership, except that they will neither vote nor be eligible to hold office in the Organization unless they are Members-at-Large on the Executive Board.

ARTICLE 4. The management of this Organization shall be vested in an Executive Board consisting of the Officers of the Organization (President, Vice-President, Secretary-Treasurer, and Editor) and two Members-at-Large who may be Institutional Members or Individual Members. The members of the Executive Board shall be elected according to the Bylaws of this Organization.

ARTICLE 5. The Organization shall have no capital stock. No member shall be entitled to receive as dividends, profits, or otherwise, any property or money derived from the operation of said Organization, but all property earnings and income of the Organization, after the payment of necessary charges and expenses of operations, shall be used exclusively to carry out the scientific and educational purposes of the Organization as expressed in Article 2 of the Constitution.

BYLAWS

1. Election of the Officers and other members of the Executive Board shall be by a simple majority of a mail vote on ballots submitted to the voting membership at least one month prior to the expiration of terms of the Officers and Members-at Large .
2. The President and Vice-President shall serve a term of one year and shall assume office in January. Individuals elected to these two offices will serve no more than two successive terms. The Secretary-Treasurer shall be elected for a term of two years and will assume office in January of even numbered years. The Editor shall be elected for a term of two years and will assume office in January of odd numbered years. The Secretary-Treasurer and Editor may be re-elected for any number of terms. The two Members-at-Large shall be elected for two-year terms, one to assume office in January of even numbered years, the other in January of odd numbered years. If, for any reason, the President shall be unable to carry out the duties of that office, he/she shall be succeeded by the Vice-President for the remainder of the terms. If for any reason the Vice-President is not able to assume the duties of President, a special election shall be held to select a President. Vacancies in the other offices may be filled until the next election by appointment of a member in good standing by the Board of Directors to serve the remainder of the term Executive Board. The duties of the officers shall be those usually devolving upon such offices except as may be otherwise provided by the Executive Board.
3. The Executive Board shall appoint a nominating committee of three members at least two months in advance of the election date and notify the members of the Organization of the membership of this committee. The committee shall accept nominations from any three members for presentation on the ballot.
4. The President, in conjunction with the Executive Board, may appoint other committees to carry out the purposes of the Organization as such become desirable or necessary.
5. An Annual Meeting of the Organization shall be held at a place and time to be determined at a preceeding Annual Meeting. The Executive Board may call additional meetings as may be desirable or necessary.
6. Annual Dues for Institutional Members and Individual Members shall be established by the voting membership at the Annual Meeting. The Secretary-Treasurer shall accept dues to be placed in an account for disbursement to carry out the purposes of the Organization subject to annual audit by the Executive Board or its appointed representatives. The fiscal year shall be the calendar year. Members shall be dropped after one year non-payment of dues, but may be reinstated by the Executive Board following payment of the current annual dues.

7. The Constitution and Bylaws may be revised by a 2/3 majority of the membership voting by mail ballot.

8. Notwithstanding any provision of the Constitution or Bylaws which might be susceptible to a contrary construction:

- a) The Organization shall be organized exclusively for scientific and educational purposes;
- b) The Organization shall be operated exclusively for scientific and educational purposes;
- c) No part of the net earnings of the Organization shall or may under any circumstances inure to the benefit of any private shareholder or individual;
- d) No substantial part of the activities of the Organization shall consist of carrying on propaganda or otherwise attempting to influence legislation;
- e) The Organization shall not be organized or operated for profit;
- f) The Organization shall not participate in, or intervene in (including the publishing or distributing of statements), any political campaign on behalf of any candidate for public office;
- g) The Organization shall not:
 - 1. Lend any part of its income or corpus, without the receipt of adequate security and reasonable rate of interest to:
 - 2. Pay any compensation, in excess of a reasonable allowance for salaries or other compensation for personal services actually rendered to:
 - 3. Make any part of its services available on a preferential basis to:
 - 4. Make any purchases of securities or other property, for more than adequate consideration in money or money's worth from:
 - 5. Sell any securities or other property for less than adequate consideration in money or money's worth to:
or
 - 6. Engage in any other transactions which result in substantial diversions of its income or corpus to: any Officer, member of the Executive Board or substantial contributor to the Organization.

The prohibitions contained in the Section (g) do not mean to imply that the Organization may make such loans, payments sales or purchases to anyone else, unless such authority be given or implied by other provisions of the Constitution or Bylaws.

9. Upon dissolution of the Organization of Biological Field Stations, the Executive Board shall distribute the assets and accrued income to those organizations as determined by the Board, but which organization or organizations shall meet the limitations prescribed in Sections (a) to (g) inclusive of Article 8 immediately preceding.

CONSTITUTION

ORGANIZATION OF BIOLOGICAL FIELD STATIONS

ARTICLE 1. The name of this organization shall be the "Organization of Biological Field Stations." (OBFS).

A Biological Field Station is defined as an organization engaged in field research or instructional programs of biological or related phenomena.

ARTICLE 2. The purposes of the organization shall be: The advancement of biological science through 1) the development of research and teaching programs at field stations in North America, 2) the implementation of cooperation between these Stations, and 3) the dissemination of information about these Stations.

ARTICLE 3. The management of this Organization shall be vested in a Board of Directors of four officers, to be designated as the: President, Vice-President, Secretary/Treasurer, and Editor. These persons shall be elected according to the Bylaws of this Organization.

ARTICLE 4. Membership: there shall be two classes of membership: (a) Institutional membership shall be open to biological field stations which will designate a single representative, normally the station director, who will cast the vote of the station and would be able to hold office in OBFS. (b) Personal membership shall be open to all individuals who subscribe to the purposes of the organization. Personal members will have all the privileges of membership, except they will neither vote nor be able to hold office in the organization.

ARTICLE 5. The Organization shall have no capital stock. No member shall be entitled to receive as dividends, profits, or otherwise, any property or money derived from the operation of said Organization, but all property earnings and income of the Organization, after the payment of necessary charges and expenses of operations, shall be used exclusively to carry out the scientific and educational purposes of the Organization as expressed in Article 2 of the Constitution.

BYLAWS

1. Election of the Board of Directors shall be by a simple majority of a mail vote on ballots submitted to the membership one month prior to the election date as set by the Board of Directors.

2. The President and Vice-President shall be elected for terms of two years starting with the beginning in January, 1980. Individuals elected to these two offices will not be permitted to serve more than two successive terms. The Secretary-Treasurer shall be elected for a term of two years and will also assume office in January of even numbered years. The Editor shall be elected for a term of two years and will assume office in January of odd numbered years. The Secretary-Treasurer and Editor may be re-elected for any number of terms. If, for any reason, the President shall be unable to carry out the duties of that office, he shall be succeeded by the Vice-President for the remainder of the terms. Vacancies in the other offices may be filled until the next election by appointment of a member in good standing by the Board of Directors to serve the remainder of the term. The duties of the officers shall be those usually devolving upon such offices except as may be otherwise provided by the Board of Directors.

3. The Board of Directors shall appoint a nominating committee of three members at least three months in advance of the election date and notify the membership of the Organization. The committee shall accept nominations from any three members and/or select nominees for presentation on the ballot.

4. The Board of Directors may appoint other committees to carry out the purposes of the Organization as such become desirable or necessary.

5. The Board of Directors shall make an annual report to the membership and call meetings of the membership as they become desirable or necessary.

6. Annual Dues for institutional members are set at \$50.00; annual dues for personal members are set at \$10.00. The Secretary-Treasurer shall accept dues to be placed in a special account for disbursement to carry out the purposes of the Organization subject to annual audit by the Board of Directors. The fiscal year shall be the calendar year. Members shall be dropped after one year non-payment of dues, but may be reinstated by the Board of Directors following payment of the current annual dues.

7. The Constitution and Bylaws may be revised by a 2/3 majority of the membership voting by mail ballot.

8. Notwithstanding any provision of the Constitution or Bylaws which might be susceptible to a contrary construction:

a) The Organization shall be organized exclusively for scientific and educational purposes;

b) The Organization shall be operated exclusively for scientific and educational purposes;

c) No part of the net earnings of the Organization shall or may under any circumstances inure to the benefit of any private shareholder or individual;

d) No substantial part of the activities of the Organization shall consist of carrying on propaganda or otherwise attempting to influence legislation;

e) The Organization shall not be organized or operated for profit;

f) The Organization shall not participate in, or intervene in (including the publishing or distributing of statements), any political campaign on behalf of any candidate for public office;

g) The Organization shall not:

1. Lend any part of its income or corpus, without the receipt of adequate security and reasonable rate of interest to:

2. Pay any compensation, in excess of a reasonable allowance for salaries or other compensation for personal services actually rendered to:

3. Make any part of its services available on a preferential basis to:

4. Make any purchases of securities or any other property, for more than adequate consideration in money or money's worth from:

5. Sell any securities or other property for less than adequate consideration in money or money's worth to: or

6. Engage in any other transactions which result in substantial diversions of its income or corpus to: any officer, member of the Board of Directors or substantial contributor to the Organization.

The prohibitions contained in the Section (g) do not mean to imply that the Organization may make such loans, payments sales or purchases to anyone else, unless such authority be given or implied by other provisions of the Constitution or Bylaws.

9. Upon dissolution of the Organization of Biological Field Stations, the Board of Directors shall distribute the assets and accrued income to those organizations as determined by the Board, but which organization or organizations shall meet the limitations prescribed in Sections (a) to (g) inclusive of Article 8 immediately preceding.

IV

REPORT ON FIELD STATION HOUSING SURVEY

James R. Pratt

In December of 1986 a survey regarding housing and related issues was sent to QBFS members in the QBFS Newsletter. This report briefly summarizes the results of the 17 surveys returned. A summary of responses is attached.

1. Background. All responding field stations conducted educational activities directed primarily at undergraduate and graduate students. About 70% of stations also hosted some sort of community or continuing education. Most field stations have some use year-round and only one station reported exclusive summer use.

Stations housed from 6-165 students, researchers, and faculty. The approximate ratio between faculty and student housing was about 1:10. Most field stations are located at some distance from the home institution (usually a university) (range 13-600 miles). Stations have a mixture of housing although the majority of stations have housing built for the station. About 40% of stations have a mixture of inherited and station-built housing.

2. Housing Units. Self-contained housing (including toilet and cooking facilities) and dormitory-type housing were most common among responding stations. Cabins with toilet/bath facilities and cabins or tents without such facilities were present at about 40% of stations. Most stations have communal toilet and shower facilities.

Stations typically considered present housing inadequate and indicated a need for additional housing. Some problems with the size of individual housing units was indicated. For short-term use (field trips, workshops) housing units with capacities in the 4-8 or greater than 8 range were considered most useful. Longer term use such as occurs during the summer teaching and research season probably requires housing units with lower per unit capacities to provide privacy. For longer term use about two-thirds of stations indicated that units in the 2-4 persons per unit range would be most appropriate.

Stations considered faculty and independent researcher housing to be simple but self-contained. One-bedroom units were considered to be the most appropriate with two-bedroom units and "efficiency" units (common kitchen-living room-bedroom) of similar need.

3. Maintenance. A large majority of stations (>80%) have permanent maintenance personnel. Woodframe units were the most common with metal or mobile home type units present at a large number of stations. Stations also have brick/stone units and log units, and some stations use tents.

Construction of housing units were most often constructed by contractors, but station maintenance crews and volunteer labor were nearly as frequent sources of construction labor. University maintenance crews were least frequent.

4. Creative Solutions. Several field stations reported unusual solutions to their housing problems. The most common solution was to use surplus materials or units. For example, field stations have used government surplus mobile homes, usually obtained as shells in poor condition, which were renovated to provide sleeping quarters. Some of these mobile units have previously served as temporary faculty offices on crowded campuses or discards of the US Forest Service, Environmental Protection Agency, or Department of Defense. Local or regional foundations have provided grants for materials (supplanted by labor from station crews or volunteers) for construction of facilities. In some cases institutional support has been aided by corporate sponsors who have donated either materials or services.

One station successfully used student work crews directed by a certified tradesman to meet its construction needs. Another field station used a soft drink machine to generate income for use in providing materials to student and faculty labor crews. Another station obtained volunteer labor through the local court system by willingly accepting sentences of community service hours or utilizing convict labor crews to assist in housing construction. In some cases, sawn lumber has been obtained from timber harvesting on public lands. Saw mills accepting such timber were encouraged by the government agency to donate materials for housing construction. Additionally, such materials can often be obtained from the mill site at very reduced costs.

5. Summary. Most field stations make use of facilities for educational purposes on a year-round basis. Group sizes are usually small and the distance from the home institution can be large. Self-contained homes and dormitory or bunkhouse facilities are common as are communal toilet and shower facilities. Most field stations consider their present housing inadequate because it either lacks privacy or does not provide them with a sufficient capacity to handle certain groups. Stations make heavy use of their limited labor crews in building woodframe housing or remodeling mobile home units. A mixture of relatively private (2-4 person) units was considered desirable for long-term uses, and a number of creative means ranging from the use of convict labor to procuring materials on government surplus were used to improve existing facilities. The continued development of biological stations as teaching and research sites will be limited by the availability of suitable housing which is flexible enough to house large groups on a short-term basis or individual researchers over longer periods. Creative solutions in addition to funding programs by national organizations and foundations will be needed to solve the housing problems at stations where use patterns are typically sporadic and where facilities often sit idle for long periods of time.

SUMMARY OF RESPONSES TO
HOUSING SURVEY

N=17

Housing for researchers and students is a pressing need at our (and presumably other) field station. I would appreciate your help in identifying the kinds of housing you provide, the kinds you find most useful, and creative ways of financing the construction of servicable housing.

1. Background (Check all that apply)

a. Educational activities at field station

94% Undergraduate 88% Graduate 71% Community/Continuing Ed 0% None

b. Use periods 6% Summer 88% Year-round 6% Other (Specify) Fall/Spring Only

c. How many persons can be housed at your facility?

20-130 Undergrads/Grads 2-100 Independent Researchers 2-15 Faculty

d. How far away is your field station from your parent university (mi) 13-600

e. Is your housing 12% Inherited from previous owner 59% Built for station 29% Both

2. Housing Units

a. Kinds of housing

41% Tents/Cabins (no toilet/bath and or cooking) 41% Cabins (with toilet/bath)
71% 'Homes' (with toilet/bath and cooking) 71% Dorm/Bunkhouse/Barracks

b. Communal toilet/shower facility? 71% yes 18% no n/a 6%
both 6%

3. Do you consider your present housing 29% adequate 71% inadequate

4. If inadequate, why?

12% Low capacity 6% Units too large 12% Units too small 53% Need more

5. For short-term use (e.g. field trips, workshops), which kinds of units would be most useful? 18% 2-4 persons 35% 4-8 persons 35% more than 8 persons n/a 12%

6. For longer-term use (e.g. summer courses) which kinds of units would be most useful? 65% 2-4 persons 18% 4-8 persons 12% more than 8 persons n/a 6%

7. For temporary independent researchers or faculty, which units would be most useful?

35% Efficiency units (common kitchen -living room -bedroom)
41% 1-bedroom 35% 2-bedrooms 12% more than 2-bedrooms n/a 18%

8. Maintenance

a. Do you have a permanent maintenance person? 82% yes 18% no

b. Are your units 6% Tents 76% Woodframe 12% Brick/Stone 18% Log
41% Metal/Mobile home 0% Other (specify) _____

9. How are/were your units built? 35% Volunteer labor 41% Contractor

35% Station maint./Constr. crew 12% University Maint./Constr. crew

10. If you have been successful in creatively solving the problem of obtaining labor, materials, and/or funding for housing, please describe briefly on the back

PLEASE RETURN COMPLETED QUESTIONNAIRE TO:

Dr. James R. Pratt, Director
Hancock Biological Station
Murray State University
Murray, KY 42071

V. Field Station Description

Treehaven, A Star is Born

There is a new star in the North, "Treehaven," the University of Wisconsin-Stevens Point's environmental field station. Gently situated on a thousand-acre tract of northern forest in the rolling glacial hills between Tomahawk and Rhinelander, Wisconsin, Treehaven is aglow with activity throughout the year.

A gift of 960 acres of land from Dorothy and Jacque Vallier, plus additional financial support from the University of Wisconsin Foundation and various donors, gave Treehaven a generous beginning, and UW-SP's College of Natural Resources (CNR) an ideal location for its summer camp program.

A primary focus from mid-May to mid-August is the CNR summer program which is now in its third year at Treehaven and in its 20th year of existence. It is nationally and internationally renowned for its "hands on" approach to the study of natural resources. All graduates of the CNR must complete one of two six-week sessions of intensive training in forestry, wildlife, soil, and water management. All disciplines are integrated with basic ecological concepts, taxonomic study, and field techniques.

Even before the establishment of the College of Natural Resources at UW-SP, the summer camp program allowed students to gain first-hand experience in the natural science disciplines. At its inception in the early 1960's, the program began in the primitive open-air settings of an abandoned Boy Scout camp. From 1971 to 1984, a cooperative work/study arrangement with the U.S. Forest Service allowed students to be housed military-style in the barracks of an old Job Corps training camp at Clam Lake, Wisconsin. As the program and its horizons expanded, there came a need for a larger, self-owned facility, hence Treehaven appeared.

Education is a priority at Treehaven as Director Charles "Corky" McReynolds oversees a diversity of programs, including week-end courses for college credit, courses in continuing education, and classes of general interest to the public. Natural resource conferences, conservation agency and group meetings, educationally oriented seminars and in-services are also hosted. An elderhostel program allows retirees and seniors an opportunity to "get their feet wet" in a favorite natural science subject, while socializing in a relaxed setting. All programs are designed to be financially self-supporting.

A multi-faceted facility, Treehaven is able to accommodate up to 100 students/participants, and can operate as a complete residential conference center. The main lodge contains a modern food service area and dining hall, large group meeting space, lounge, fireplaces, and a relaxing view of the forest. A classroom building is adaptable to large or small groups, and includes office and laboratory space, a stockroom for field equipment and instructional materials, audio-visual storage, and a computer room. Two winterized, carpeted living centers contain rooms for up to four residents each, shower facilities, and additional lounge area. Separate lodging exists for faculty and/or families. All buildings are located at the same elevation and are connected by short walkways. Currently, a major capital expansion project is underway to add an assembly area that would accommodate 150 people, increase our dining hall capacity, increase the size of our kitchen preparation and storage area, complete the maintenance complex, and pave our entrance road. Funds to date total 75% of our \$298,000 goal. Our road paving, assembly and dining hall will be under construction in spring '88.

The diversity of aquatic and terrestrial communities at Treehaven provides students with an ideal outdoor classroom and laboratory, while sports equipment, canoes, and walking trails supply recreational needs.

Treehaven points to the future with a galaxy of plans that include:

1. A permanent research lab and library complex. A donor has already expressed interest in the project which would include space for 3-4 ongoing research studies. Graduate students, college faculty, and/or outside scientists would be able to study the northern deciduous biome.
2. Development as a professional extension center for resource managers.
3. Designation as a professional graduate program center.
4. Potential for week or week-end high school programs related to resource management, ecology, environmental education and related careers.
5. Our final fund-raising goals are to establish an endowment to aid in conducting general programming and equipment maintenance, to encourage on-site research with room and board stipends, to provide scholarships for summer students (3-4 are already available), and to fund additional staff.

At Treehaven only the sky is the limit. We see a bright future as we continue to blend science and nature, adventure and academia.

Written by Bob Dall, Program Assistant, Treehaven

VI ANNOUNCEMENTS AND NOTICES

A. Introduction of exotic species and genes to La Selva Biological Station

The secretary's office has received a request from Dr. Charles E. Schnell, resident director of the Organization for Tropical Studies (a new member of OBFS). OTS is in the process of reviewing their policies governing the introduction of exotic plants at their facilities. Not only is there concern regarding the establishment of exotic species, but also of non-local genotypes, though the latter might be drawn from a species with local representation. Dr. Schnell (O.T.S., Universidad de Costa Rica, Apto 676-2050, San Pedro de Montes de Oca, Costa Rica), would greatly appreciate hearing from anyone with experience or comments to offer on this problem.

Quite possibly this topic might deserve discussion at a future meeting of OBFS, so all members are encouraged to begin cerebrating about this problem and how stations might facilitate research, including that of an agricultural sort, without compromising the integrity of ecosystems under their care.



Organización para Estudios Tropicales

Organization for Tropical Studies, Inc.

- North American Office: P.O. Box 194, Duke Station, Durham, N.C. 27706 U.S.A. Tel. 919-684-9274
- Oficina Centroamericana: Apto. 16, Universidad de Costa Rica, San José, Costa Rica. Tel. 25-2210 y 25-7507
- Estación Biológica La Selva: c/o OTS, Apto. 676, 2050 San Pedro, Costa Rica. Tel. 71-6007
- Jardín Botánico Los Cerritos: Apto. 35, San Vito de Jara, Costa Rica. Tel. 77-3778

May 15, 1987

Dr. Richard W. Coles
Secretary/Treasurer
Organization of Biological Field Stations
Washington University, Tyson Research Center
P.O. Box 258
Bureka, MO 63025

Dear Dr. Coles:

In the course of reviewing the policies governing the introduction of exotic plants to the experimental annexes of the La Selva Biological Station, it has occurred to us that similar dilemmas must have been faced before, and that OTS should be aware of the experience of other centers in regard to the situations which can arise, as well as solutions which have been worked out.

Specifically, two kinds of problems appear as we try to regulate the research to be permitted in the experimental areas: how to prevent the escape of plants not native to the region; and how to guard against introgression of genes from plantings of species which are native, but from seed collected some distance away. Restrictions too strict might severely limit the possibility of developing research on agricultural, forest, or other artificial ecosystems; to lax a policy might lead to an unnecessarily unfortunate impact on either forest reserves or the agricultural landscapes around La Selva.

Given your involvement in OBFS, it seems reasonable to suppose that you may have dealt with these issues, or may be able to direct us to people who have done so. I would appreciate any information you might provide. In case you are interested in commenting on our current thinking, I enclose a draft by La Selva Directors.

Thank you for your help.

Sincerely,
Charles E. Schnell
Charles E. Schnell
Resident Director

AMSTERDAM • AUSTIN • CALIFORNIA • GUELPH • THE HAGUE • LONDON • CONCORD, MASS. • COSTA RICA
DUBLIN • FT. WORTH • GENEVA • HARVARD • HONOLULU • INDIANAPOLIS • IOWA CITY • JAMAICA • KANSAS STATE • KANSAS CITY • LAMAR
MILWAUKEE • MONTANA STATE • MONTREAL • MURFREESBORO • NAGASAKI • NASHVILLE • NEWARK • NEW YORK STATE • OMAHA
RUTGERS • SALT LAKE CITY • ST. LOUIS • ST. PETERSBURG • TAMPA • TEXAS A.M. • UTAH STATE • UTAH
VANCOUVER • WASHINGTON • WASHINGTON STATE

臺灣省林業試驗所

森林生物系

TAIWAN FORESTRY RESEARCH INSTITUTE
DEPARTMENT OF FOREST BIOLOGY
BOTANICAL GARDEN, 53 NAN-HAI ROAD,
TAIPEI, TAIWAN, REPUBLIC OF CHINA

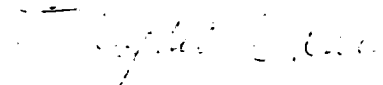
June 26, 1986

Dr. Richard Coles
Secretary-Treasurer
Tyson Research Center
Washington University
Eureka, MO 63025
U. S. A.

Dear Dr. Coles:

In order to strengthen our conservation effort, it may well be worthwhile, I believe, to establish some biological field stations here in Taiwan. I am currently collecting information about the biological field stations. I would appreciate receiving information on research program, educational program, and conservation strategy of some active and/or representative biological field stations which are members of your Organization. Any other suggestions and information relevant to the biological field station will also be greatly appreciated.

Sincerely,


Jung-Tai Chao
Associate Research Fellow

OBFS MEMBERS: please send information concerning your field station
to Jung-Tai Chao

VII NEW MEMBERS TO OBFS -- WELCOME !!

- Dr. George F. Crozier (Station)
Marine Environmental Sciences Consortium
Dauphin Island Sea Lab
P.O. Box 369-370
Dauphin Island, Alabama 36528
- Alan R. Ek (Individual)
Department of Forest Research
University of Minnesota
St. Paul, Minnesota 55108
- Dr. Margaret H. Fusari (Individual)
UCSC Natural Reserve Coordinator
Division of Natural Sciences
Santa Cruz, California 95064
- Dr. Jack Morton (Station)
Director, Marine Operations
Florida Institute of Technology
150 W. University Boulevard
Melbourne, Florida 32901
- Dr. William Porter (Station)
Adirondack Ecological Center
Huntington Wildlife Forest
Newcomb, New York 12852
- Dr. M.K. Seely (Individual)
Desert Ecological Research Unit
Gobabeb
P.O. Box 953
Walvis Bay, S.W.A./ Namibia

Adirondack Ecol Center Dr William Porter S Huntington Wildlife Forest Rt 28N Newcomb, NY 12852	Blandy Experiment Farm Dr Michael A Bowers S Univ of Virginia P.O. Box 175 Boyce, VA 22620	Fort Burgwin Res Cen Dr W James Judge S Southern Methodist University Dallas, TX 75275
Allen, C M Biol Sta Dr Ronald Dimock Jr S Dept Biology Wake Forest Univ Winston-Salem, NC 27109	Bodega Marine Lab and Reserve Dr Peter Connors S Univ of California Bodega Bay, CA 94923	R S Friedman Field Sta Carl Merrill S Biology Department Suffolk Uni-Beacon Hill Boston, MA 02114
Am Museum Natural Hist Dr Jerome Rozen Jr S Central Park West at 79th Street New York, NY 10024	Cedar Point Biol Sta Tony Joern, Director S School Biol Sciences University Nebraska Lincoln, NE 68588-0188	Hancock Biol Station Dr James R Pratt S Murray State Univ Murray, KY 42017
Archbold Biol Sta Dr James N Layne S P O Box 2057 Lake Placid, FL 33852	Churchill Northern Stu Dr Chris Davies S Box 610, Churchill Manitoba Canada ROB OEO	Hastings Nat History Reservation Dr James Griffin S Star Route, Box 80 Carmel Valley CA 93924
Au Sable Institute S Dr David C Mahan Environmental Studies Route 2, Box 232 Mancelona MI 49659	Cranberry Lake Bio Sta Dr Ranier H Brocke S 249 Illick Hall State Univ of New York Syracuse, NY 13210	Highlands Biol Sta Dr Richard C Bruce S P.O. Drawer 580 Highlands, NC 28741
Babcock Nature Pres Dr Peter Marchand S Johnson State College Johnson, VT 05656	Crowley T B Laboratory Dr Ross F Shaw S Seattle Pacific Univ Seattle, WA 98119	Hopkins Marine Stat Judy Thompson S Stanford University Pacific Grove, CA 93950
Bamfield Marine Sta S Director General Delivery Bamfield, B.C. VOR 1B0	Delta Marsh Field Sta Dr Philip K Isaac S University Manitoba Winnipeg, Manitoba Canada R3T 2N2	Huntsman Marine Lab Dr G Robin South S Brandy Cove Road St Andrews New Brunswick EOG 2X0
Beaver Island Biol Sta James C Gillingham S Central Michigan Univ Dept Biology Mt Pleasant, MI 48859	Desert Research Inst Dr Harold Klieforth S P O Box 60220 Reno, NV 89506	E N Huyck Preserve Dr Richard L Wyman S P O Box 188 Rensselaerville NY 12147
Belle Baruch Inst Dr John Vernberg S Marine Biol & Coastal Univ South Carolina Columbia, SC 29208	Desert Studies Center Dr Gerald Scherba S Dept Biology California St Univ Fullerton, CA 92634	Illinois Natural History Survey Dr Stephen P Havera S Box 599 Havana, IL 62644
Bermuda Biol Station for Research, Inc Dr Anthony Knap S Ferry Reach 1-15 Bermuda	Forfar Field Station Dr Walter B Bohl S Int Field Studies 2199 E Main Street Columbus, OH 43209	Iowa Lakeside Lab Dr Richard Bovbjerg S Department Biology University of Iowa Iowa City, IA 52240

Itasca Field Station S 349 Bell Museum Univ of Michigan Minneapolis, MN 55455	Mich Univ Biol Sta Dr James A Teeri S Biological Station Ann Arbor, MI 48109	Oregon State Univ Lavern J Weber S Marine Science Center 2030 S Marine Sci Dr Newport, OR 97365
Jasper Ridge Biological Preserve Mr Alan Grundman S Stanford University Stanford, CA 94305	Monmouth College David C Allison S Dept of Biology Monmouth, IL 61462	Phillips Univ Colorado Dr Jeffery Burkhart S Dept Biology Enid, OK 73702
Kananaskis Centre Dr Dennis Parkinson S Univ of Calgary 2500 Univ Drive NW Calgary Alberta T2N 1N4	Montana, Univ Bio Sta Dr Jack Stanford S East Shore Bigfork, MT 59911	Pike's Peak Res Sta Dr Boyce A Drummond S Colorado Outdoor Education Center Florissant, CO 80816
Kansas University Dr Kenneth Armitage S Exp & Applied Ecology Div Biol Sciences Lawrence, KS 66045	Moss Landing Dr John Martin S Marine Station Moss Landing, CA 95039	Pinelands Research Div Dr Ralph E Good S Rutgers Pineland Field Station, Dept Biology Camden, NJ 08102
Kellogg, W K Bio Sta Dr George Lauff S Michigan State Univ 3700 East Gull Lake Dr Hickory Corner MI 49060	Mountain Research Sta Dr Mark Noble S University of Colorado INSTAAR Nederland, CO 80466	Powdermill Nature Res Dr Joe Merritt S Star Route South Rector, PA 15677
Kibbe Life Science St Dr John Warnock S Dept Biology Western Illinois Univ Macomb, IL 61455	Natural Reserve System Mr Jeffery Kennedy S Univ California 2120 Univ Ave-4th Fl Berkeley, CA 94720	Pymatuning Lab Ecology Dr Richard T Harman S University Pittsburgh Rt 1, Box 7 Linesville, PA 16424
Malheur Field Station Lucile A Housley S P.O. Box 260-E Princeton, OR 97721	O T S Dr Donald E Stone S Exec Director P O Box DM Duke Sta Durham, NC 27706	Queens College Center Dr Philip White S Caumsett State Park Huntington, NY 11743
Manomet Bird Observato Elizabeth P Mallory S Field Bio Training Pro P O Box 936 Manomet, MA 02345	Oklahoma University Biological Station S Dr Loren G Hill 730 Van Vleet Oval Norman, OK 73019	Raystown Field Station Dr Robert L Fisher S Dept of Biology Juniata College Huntingdon, PA 16652
Marine Science Center Dr Larry Liddle S Southampton Campus Long Island University Southampton, NY 11968	Oneonta State Univ Dr Willard N Harman S Biology Department Oneonta, NY 13820	Reis Biological Station Dr Nevin Aspinwall S St Louis Biology 3507 Laclede Avenue St. Louis, MO 63103
Mich Univ Biol Sta Dr David M Gates S Room 2043 Natural Science Bldg Ann Arbor, MI 48109	Oregon Institute Dr Paul Rudy S Marine Biology Univ of Oregon Charleston, OR 94720	Rensselaer Fresh Water Dr Charles Boylen S Institute MRC 201 Rensselaer Polytechnic Troy, NY 12181

Rice Creek Biol Sta
Donald D Cox S
State University Coll
Oswego, NY 13126

Treehaven Field Station
Corky McReynolds S
2540 Pickerel Creek Rd
Tomahawk, WI 54487

Sr Mary Budde S.N.D. I
Thomas More College
Biology Department
Crestview Hill KY 41017

Rocky Mountain Bio Lab
Susan Allen, Dir S
P.O. Box 519
Crested Butte, CO
81224

Tyson Research Center
Dr Richard W Coles S
Washington University
P.O. Box 258
Eureka, MO 63025

Dr Diane M Calabrese I
Bunting Institute
Radcliffe Res & Study
34 Concord Ave
Cambridge, MA 02138

Ross Natural History
Dr Dwight L Spencer S
Emporia State Univ
Emporia, KS 66801

USDA Forest Service
Hubbard Brook Ex Forest
Arthur McKee S
R R #1, Box 97
Campton, NY 03223

Dr David B Clark I
La Selva Biol Station
Univ Costa Rica
Ciudad Universitaria
Costa Rica, C.A.

Sagehen Creek Field Sta
Dr Reginald Barrett S
Uni California Forestry
145 Mulford Hall
Berkeley, CA 94720

West Indies Lab
Dr John C Ogden S
Fairleigh Dickinson U
Teague Bay, St Croix
U S Virgin Island 00820

Conard Environmental
Research Area
Director I
Grinnell Coll-Dept Bio
Grinnel, IA 50112

Santa Cruz Island Res
Dr Lyndal Laughrin S
Univ CA-Santa Barbara
Santa Barbara, CA 93106

White Mountain Res St
Dr David C. Trydahl S
3805 Geology Building
University of Calif
Los Angeles, CA 90024

Steve Davenport I
Long Marine Lab
Univ California
Santo Cruz CA 95064

Shoals Marine Lab
Dr John B Heiser S
G-14 Stimson Hall
Cornell Univ
Ithaca, NY 14853

Whittel Forest & Wild-
life Area Dept Biol
Dr Stephen Jenkins S
University of Nevada
Reno, NV 89557

William R Demott I
Dept Biol Science
Indiana U-Purdue U
2101 Coliseum Blvd E
Fort Wayne, IN 46805

Sierra Nevada Aquatic
Valentine Camp
Daniel R Dawson S
P.O. Box 273
Mammoth Lakes, CA 93546

Wyoming Nat Park Serv
Dr Kenneth L Diem S
Dept Zoology & Physiol
P.O. Box 3166 Univ Sta
Laramie, WY 82071

Dr Alan R Ek I
Cloquet Forestry Ctr
Dept Forest Resources
Univ Minnesota
St Paul, MN 55108

Southwest Texas Sta
Dr B G Whiteside S
Aquatic Station
San Marcos, TX 78666

Individual Members

James L Elder I
School Field Studies
376 Hale St
Beverly, MA 01915

Southwestern Res Sta
Wade C Sherbrooke S
P O Box G
Portal, AZ 85632

Don C Aabel I
Pigeon Lake Field Sta
204 North Hall
U.W. River Falls
River Falls, WI 54022

Dr John W Ferner I
Aquatic Bio Field Sta
Thomas More College
Crestview Hills
KY 41017

Stone F T Lab
J M Reutter S
Ohio State Biol Sci
484 W 12th Ave
Columbus, OH 43210

Dr Charles Brand I
Newfound Harbor Marine
Institute
Rt 3 Box 170
Big Pine Key, FL 33043

Dr Millicent Ficken I
Univ Wisconsin Field
Station
3095 Blue Goose Road
Saukville, WI 53080

Jeffrey B Froke I National Audubon Soc P.O. Box 224-COTO Trabuco Canyon, CA 92678	Dr Charles C King I 980 Biol Science Bldg Ohio St University 484 West 12th Ave Columbus, OH 43210	Mark Paddock I University Michigan Biological Station Ann Arbor, MI 48109-1048
Thomas M Frost I Trout Lake Biol Sta Pt 1, Box 76 Boulder Junction WI 54512	Lois Kruschwitz I Alpine Learning Ctr 2190 Bluebell Boulder, CO 80302	Dr Steven C Roschke I Aquatic Biol Field Sta Thomas More College Crestview Hills KY 41017
Dr. Margaret Fusari I Coordinator UCSC Natural Reserve Div Natural Sciences Santa Cruz, CA 95064	Charles E Kupchella I Ogden Col of Sci Tech Western Kentucky Univ Bowling Green, KY 42101	Dr Robert P Rye Jr I Dept Natural Resources Conservation Educ Ctr R R #1 Box 53 Guthrie Center, IA 50115
Dr Robert E Gordon I Office of Advanced Stu Univ of Notre Dame Notre Dame, IN 46556	Linda E Leddy I Manomet Bird Observatory P.O. Box 936 Manomet, MA 02345	Dr Charles E Schnell I Org Tropical Studies Universidad Costa Rica Ciudad Universataria Costa Rica Centra Amer
Dr James Halfpenny I Inst Arctic & Alpine Research-U of Colorado Box 450 Boulder, CO 80309	Dr Michael C Mackey I McIntyre Medical Sci 3655 Drummond Montreal, P.Q. H3G 1Y6	John Smiley I Univ California Big Creek Reserve Big Sur, CA 93920
P P Harper I Station de Biologie C.P. 6128, Succ "A" Montreal, Que Canada H3C 3J7	Dr Robert E Martin I Tech Aqua Biol Sta Box 5041 Tennessee Tech Univ Cookeville, TN 38501	Dr Richard Speairs Jr I Ouachita Biol Sta Rt 1 Box 221-C Mena, AR 71953
Dr Robert Hastings I Turtle Cove Bio Res P O Box 814 S E Louisiana Univ Hammond, LA 70402	Dr William H Martin I Div Natural Areas Eastern Kentucky Univ Richmond, KY 40475	Dr Mark K Stromberg I National Audubon Soc Appleton-Whittell Res P O Box 44 Elgin, AZ 85611
Edward G Horn I Environmental Prot NY St Dept Env Conser 50 Wolf Road - Rm 530 Albany, NY 12233-0001	Dr Donald McCrimmon I Point Reyes Bird Obser 4900 Shoreline Hwy Stinson Beach CA 94970	Dr John R Tester I Cedar Creek Nat Hist Univ Minnesota 2660 Fawn Lake Dr NE Bethel, MN 55005
Dr Eugene Kaplan I Hostra University Marine Laboratory Dept Biology Hempstead, NY 11550	J J Murray, Jr I Mountain Lake Bio Sta University Virginia Gilmer Hall Rm B-64 Charlottesvil VA 22903	Linda Vescio I School Biol Sciences Univ Nebraska Lincoln, NE 68588-0118
Dr Michael Kennedy I E J Meeman Bio Field Life Science Bldg 321 Memphis State Univ Memphis, TN 38152	Dr Ronald A Nussbaum I E C George Reserve University of Michigan Museum of Zoology Ann Arbor, MI 48109	James L Wolfe I Archbold Bio Station P O Box 2057 Lake Placid, FL 33852

Laura S Carter I
(Bd Directors Huyck)
81 Oakview Terrace
Short Hills, NJ 07078

Dr Robert Dalglish I
Dir Grants & Contracts
S E Massachusetts Univ
North Dartmouth, MA
02747

David M Darda I
Museum Vertebrate Zool
Univ California
2593 Life Sciences Bldg
Berkeley, CA 94720

Patricia Garvey-Darda I
Museum Vertebrate Zool
Univ California
2593 Life Sciences Bldg
Berkeley, CA 94920

Dennis Johns I
P.O. Box 1235
Crested Butte, CO
81224

Dr William E Keller I
(Bd Director Huyck)
Box 187
Rensselaerville NY
12147

Dr & Mrs D Parmelee I
349 Bell Museum
Univ Minnesota
Minneapolis, MN 55455

Dr Jennifer M Shay I
Univ of Manitoba
Winnipeg, Manitoba
Canada R3T 2N2

Michael Yoder-Williams I
Dept Botany
KB15
Univ Washington
Seattle, WA 98195