

**Organization of
Biological Field Stations**

**Newsletter
No. 47
Winter 1988**



ORGANIZATION OF BIOLOGICAL FIELD STATIONS

Number 47

Winter 1988

Newsletter Editor

Joseph F. Merritt

Powdermill Biological Station

The Carnegie Museum of Natural History

Rector, PA 15677

NEWSLETTER

TABLE OF CONTENTS

- I. Minutes-- 1988 Annual Meeting for Business, Maine Coastal Facility of the National Audubon Society, Hog Island, Damariscotta, Maine
- II. "Ye Olde Official OBFS Ballottee"-- return no later than December 30, 1988
- III. OBFS Financial Report
- IV. Current Status of OBFS Membership
- V. Committee Reports
 - A. Report to OBFS- 1988 AIBS Council Meeting
 - B. Report on Interim Council Meeting of AIBS
 - C. Summer course enrollments (1977-1988) at seven biological field stations
 - D. Report of Administration Committee
- VI. Announcements
 - A. Attendance List--1988 OBFS Annual Meeting
 - B. Goals of the Association of Ecosystem Research Centers
 - C. Bird-banding projects
- VII. Questionnaire
 - A. NSF Program on Equipment and Facilities at Biological Field Stations
- VIII. Field Station Description
 - A. H. J. Andrews Experimental Forest (Brochure enclosed)
- IX. Address List of OBFS Members (as of 11/88)



HAPPY
HOLIDAYS

I. MINUTES

MINUTES - 1988 ANNUAL MEETING FOR BUSINESS

SEPTEMBER 9 - 11, 1988

NATIONAL AUDUBON SOCIETY SCIENCE CAMP HOG ISLAND
DAMARISCOTTA, MAINE

I. Session 1 - Sept. 9 - 8:45 a.m. to 10:20 a.m.

A. In attendance: Appendix I lists those attending and their affiliation.

B. President Armitage opened the meeting and noted that we were operating under the new by-laws. Armitage announced his appointments to this year's nominating committee: Jim Layne, Peter Connors, and Tony Joern. He solicited those present for suggestions of victims for the nomination process: Offices to be filled are president, vice-president, editor, and two members at large (one for a 1 yr term; the second, a 2 yr term).

Armitage then outlined procedures for the remainder of the meeting.

C. The minutes of the previous meeting at Bodega Marine Laboratory and Coastal Reserve were approved as they appeared in the Newsletter #45, Winter, 1987 issue.

D. Secretary's Report (R. W. Coles): The membership now totals 138 - 91 station members; 47 individual members. Since the last meeting there have been: 12 new members; 5 resignations; 9 changes of directorship and 1 reinstatement of a station. For details, see Appendix II. The secretary detailed actual expenses encountered by Washington University for secretarial time, postage, telephone, etc. It was agreed that the OBFS reimburse Washington U. for expenses up to the previous limit, \$700. It was decided to reimburse for additional expenses beyond the limit, in the amount of \$173.65.

Finally it was moved, seconded and passed that in the future OBFS will fully reimburse Washington University for actual expenses for secretarial, office and clerical services, postage, phone calls, etc. without a specified limit. The charges will be reviewed at the annual meeting.

E. The Treasurer's Report (R.W. Coles): (See appendix III) Since our last meeting, the checking account has risen from \$12,748.07 to \$13,538.57, an increment of \$790.50. We also possess a \$7500 Certificate of Deposit, so our current worth is \$21,038.57. The treasurer's report was accepted.

F. Editor's Report (Joe Merritt):

1. Re: Directory. Joe called attention to a draft of a portion of the directory, complete with maps and descriptive materials. He invited all to make suggestions, comments, corrections,

etc. He plans to complete the project in the fall of '88. The finished product will involve about 250 pages and will be published, using standard and inexpensive printing methods. Use of a computer will permit easy and frequent revision.

2. Re: Newsletter. Joe solicited input from those in attendance and all members. The fall issue includes the minutes of the annual business meeting, perhaps a questionnaire, news about NSF funding, a membership list and a ballot. The spring issue includes meeting announcements and descriptions of field stations, and questionnaires put forth by members who wish to gather information. Joe is willing to include in the mailing of the Newsletter brochures from any member station which provides them. Funds in the treasury are adequate to handle postage for this.

G. Historian's report (Bob Fisher): Bob provided photographs of last year's meeting. He intends to continue taking photographs at meetings. Bob also requests the donation or loan of photographs for a scrap book.

H. Summer Course Announcement Poster (Susan Allen): Susan presented a financial record for last year's poster. Presently there is a balance in her sub-account of \$679.68 - She intends to use this to defray expenses in the 1989 poster, while reducing the charge for a listing. She suggested the 1989 price be \$50. (instead of the prior \$60.) and plans to use a color photograph. A form for those desiring a listing in was distributed. An effort will be made to reach station members not present. Susan plans to produce the '89 poster in November so it's in the hands of students in time Christmas vacation, when they can discuss summer projects with parents and other funding sources. The practise of announcing the availability of the Poster in various professional journals, newsletters, etc. will be resumed. Susan agreed to do this as her station is doing something similar with their materials, and she can turn the crank for the OBFS poster, too.

I. Future Meeting Sites (Ken Armitage):

1. In 1989 - OBFS meets at the Rocky Mountain Biological Laboratories (RMBL) near Crested Butte, Colorado. Because of costs and logistics, the notion of meeting at two sites has been dropped.

2. In 1990 - OBFS will convene at the Lake Itasca Field Station of the University of Minnesota.

3. In 1991 - The previous invitation that the OBFS meet at the Organization of Tropical Studies (OTS) facilities in Costa Rica was discussed. Don Stone who extended this invitation was not present, but it was assumed the site is still available and would work for OBFS members. A poll was conducted to explore the feasibility of meeting at OTS; the response was quite favorable. Armitage indicated the executive committee will explore this.

4. Lucile Housley invited OBFS to meet at Malheur (Oregon) in 1992 or even in 1991, if not at OTS. Dick Sage also suggested that we meet at his Adirondack Environmental Center.

5. Susan Allen described the meeting at RMBL, Sept. 7-10, (Thursday through Sunday). Details will appear later, but Susan emphasized that visitors should prepare for rustic/primitive conditions. It may be cold, but heavy winds are not likely. Bring your warmest clothing, your warmest boots, your warmest sleeping bag. These are the boundaries of the climatological situation at 9500' in early Sept. Visitors may come early or linger after the main dates of the meeting but would have to cook for themselves. Families are welcome; and there would be a small charge for their use of the facilities. The Mountain Research Station, Phillips University Colorado Campus and the Pike's Peak Research Station are sites attenders could visit en passant. It could well be quite warm and pleasant.

6. Chairman Armitage said AIBS requested we consider meeting with them as an adherent society; but there was consensus that, although we appreciate the hospitality of this idea, it is a fundamental OBFS member benefit to meet at a field station.

J. The Report of the AIBS Representative (Jerry Rozen): Jerry's report follows, as Appendix IV. He attended a council meeting in Washington D.C., which is to inform the adherent societies about AIBS activities, and its representation of biology in the capitol. New AIBS officers will be Dr. Boyd R. Strain, of Duke University, president; Dr. John Patrick Jordon, of Georgia, president-elect. AIBS finances are much improved over last year. Rozen emphasized that AIBS can offer things to OBFS and that we should take advantage of this. Arthur McKee attended the August AIBS council meeting at the U. Cal. (Davis). His report is in Appendix V. Much of this meeting was devoted to discussion of a bill, the National Biological Diversity Conservation and Environmental Research Act. This contains provisions likely favored by most OBFS members and biologists. Members are encouraged to read the appendix and to express opinions on this bill to their legislators and to Representative Roe, chairman of the House Committee on Science, Space and Technology. We decided that Armitage will comment for OBFS after getting an update.

* * * * *

II. Session 2 - Saturday, Sept. 10, 1988 - afternoon

A. Public Relations Committee (Laura Carter); Laura reported regarding the brochure. A questionnaire (q'aire) was circulated with the recent Newsletter, 45 members responded. Among the conclusions were: most members preferred a brochure to a poster, and OBFS should work to promote funding at Stations for facilities, equipment and field studies. The committee was encouraged to undertake marketing and communication function. Laura suggested clarification of our mission, so it could be more effectively communicated.

What do we wish to say, and to whom? We explored these questions and mechanisms to disseminate our message: should we - advertise? - undertake efforts to place articles in magazines? - do direct mailings? - make promotional efforts such as inviting the public to lectures? etc. After pursuit of these activities, might there be a climate suitable for personal presentations to potential sources of funds?

We recommended production of a brochure to build general "public awareness" - one in which our role in environmental monitoring and in the preservation of genetic diversity might be emphasized as these are highly visible questions before society today. Laura has an offer from a firm, to create a brochure design. It would first be presented to the public relations committee, then to the executive committee. Concerning distribution, Laura recommended we not attempt this ourselves. (A three-time mailing would be needed, and this would be too great an effort); but we could distribute the brochure to stations to accompany materials they mail. OBFS members might also send it to appropriate administrators in their home institutions and use it to accompany funding proposals. Finally, the brochure could be distributed at professional meetings, to legislators, etc. Additional PR efforts would be needed, including some by a congressional liaison person, perhaps the one who's affiliated with AIBS. Jeff Froke and Jeff Kennedy offered to help here.

We thanked Laura's committee for their efforts and recommended they proceed with executive committee consultation as appropriate. The committee agreed and the business meeting recessed.

* * * * *

III. Session 3 - Sunday morning, Sept. 11

A. President Armitage thanked Joe Merritt and Laura Carter for their continuing efforts on the directory and brochure. He noted that their reports came from ad hoc committees, and then welcomed reports of the standing committees.

B. Alan Grundmann presented a report from the committee on administration and facilities. Jeff Kennedy will prepare information packets on subjects which have been thoroughly explored in the California Natural Reserve System. These might benefit other OBFS members. Topics for the packets include: power supplies, sewage systems, grid systems, data loggers, etc. There might be grist for a future meeting in these topics. The matter of collecting permits is another area which may be of general interest. Additional topics might be collected via a poll in the Newsletter. Similarly, the packets might be mentioned in a Newsletter with a return sheet on which the reader can circle packets of interest and mail it in, to receive requested packets.

C. Regarding a legal matter which arose during a previous discussion about risk management, Alan suggested OBFS develop and publish

standards of how we address risky activities, such as automobile travel, scuba, rock climbing, etc. Alan suggested the committee compose a q'aire, circulate it by the Newsletter, analyze responses to devise a list of risky activities and methods used to handling them. Similarly, we might develop standard wording of a 'hold harmless' agreement to protect all field stations. Some stations post safety standards, warnings of danger and emergency procedures on the table next to each telephone.

D. Alan inquired if the committee should collect information on how stations handle the problem of exotic and introduced species. Similarly, the care of animals captured in field work may be subjected to close scrutiny in the future. Armitage reported that NSF is developing guidelines concerning the frequency with which live traps should be checked by investigators.

E. Alan asked about having a job placement service for station employees at a level below that of a professional scientist. Apparently, there are services about which we may become better acquainted and which help in placing people with environmental interests. One is the Environmental Opportunities Newsletter, which serves as a job clearing house. It was concluded that those seeking jobs should use our mailing list, that the Newsletter be used for announcing openings as in the past.

F. Education Committee (reporting for Mark Paddock was Mary Whitcomb). Paddock will send the results of his poll of major field stations concerning enrollments, to the Newsletter editor. Mary suggested a topic for a future meeting be 'non-college' types of education at stations i.e. projects focused on high school teachers, on school children, and on outreach to the public.

G. Research Committee (R.C.) (Art McKee): Art noticed overlap between the mission of the R.C. and the concerns of the administration and facilities committee. The R.C. intends to do a q'aire about environmental monitoring as done at stations. He reviewed research needs at stations and expressed a desire to work with Grundmann on the q'aire that he is preparing. Art reported a high level of interest concerning Geographic Information Systems (GIS) with members wondering what to do next. He also expressed an interest in developing q'aries about collecting rules and guidelines for the treatment of exotic species. The report of the Second Woods Hole Conference on Long-term Ecological Work lists variables which should be recorded at stations to establish an environmental monitoring program. Art offered to make and distribute copies. Low-cost, low-intensity monitoring programs could be established at small stations and would provide worthwhile benefits if pursued with regularity over a number of years. Finally, Art solicited comments and suggestions of other topics and ideas for the committee to consider.

H. Program Committee (Jerry Rozen): Jerry solicited feedback from those present: what has gone well, where improvements might be needed, what topics need discussion, and how fruitful discussions

are facilitated. He commented that it was appropriate for our treasury to be used to bring outside speakers, for example, this year's speaker, Mike Templeton. Perhaps, Paul Erlich could be invited to talk on bio-diversity. Rozen asked if there was enough free time during the meeting. It was suggested that field trips be before and after, thus keeping the core of our 2-day time interval for solid program. Some felt that field trips are a major part of our purpose and should share the core time. Perhaps the business meeting should be in the center days, not extending into Sunday when people need to leave. We might invite a director of a foreign field station to participate, at our expense. It was also suggested we schedule a volley ball game or other physical activities for those who crave exercise.

I. Nominating Committee, (Jim Layne): Jim presented the nominees: President - Ken Armitage; Vice-president - Jerry Rozen; Editor - Joe Merritt; member at large of the executive committee - George Lauff (1 year term), Jeff Kennedy (2 year term). Armitage commented that the constitution provides for additional nominations accompanied by the signatures of three members of OBFS. Balloting occurs in late fall, so persons with such nominees should direct their suggestion together with the nominators signatures to Jim by November 1, in order for their nomination to appear on the ballot.

J. New Business: The president had been encouraged by AIBS that OBFS could nominate its council representative to the AIBS Board of Directors. Board members often come from the council. Rozen is willing to stand for such a nomination. Armitage will submit same.

K. NSF facilities support. Recently Armitage considered writing a letter to Don Kingsbury of NSF, but waited for discussion of the possible content at the annual meeting. One problem is that the 100% match requirement discriminates against the smaller stations and to the benefit of the marine stations, many of which already have budgets for equipment and facilities. Members may recall a congressman from Rhode Island who, in a single quick move, arranged for marine stations to be considered together with the terrestrial stations in the distribution of funds under the special competition at NSF. This and the matching requirement effectively excluded the terrestrial stations from the competition and reduced monies going to inland stations.

It was commented that perhaps NSF could be persuaded that our operational expenses should be considered as being matching. There are fewer marine stations with larger budgets; this pattern makes it easy for them to qualify for the limited dollars available. We are many and smaller. Perhaps the competition should either be divided or the funding level be increased, or both. We agreed to discuss this topic at the next meeting. In the meantime it was decided that Armitage write a general letter expressing concern. It appeared from a hand vote that about 25% of our members were inhibited by the 100% matching requirement from submitting a proposal to

NSF. We decided to gather more information by q'aire to provide specific ammunition for Armitage's letter.

L. It was suggested that we ask Jim Edwards to distribute a report of awards under the special competition as he usually does when he is able to join our meeting. Armitage agreed to make a request.

M. There is a new Association of Ecosystem Research Centers, about which only some of us are informed. This group is soliciting members. Should we join as a group - or do individual stations wish to join? Armitage suggested that individual stations would be the appropriate level at which OBFS might participate. Armitage will write a paragraph for the Newsletter about the association.

N. The matter of incorporation and solicitation of tax exemption was considered in the light of the presentation by attorney Peter Ruger in a non-business part of the meeting. It was moved, seconded and passed that the OBFS incorporate, and that Missouri would be a suitable state in which to do this, unless there are real advantages to doing it in California. Coles will ask Peter Ruger and/or Joe Merritt's brother, (an attorney) to examine this. It was also decided that, once incorporated, we seek tax exemption status, with the effective date being September 10, 1988, if attorneys are able to back-date such things.

O. We expressed enthusiastic gratitude to our hosts, and to visitors, Mike Templeton and Peter Ruger. Letters to that effect will be written. The official business meeting adjourned at 10:30 a.m.

IV. Notes from a brief meeting of the Executive Committee, (attended as well by several members who happened to be conveniently nearby.)

A. Concerning the Directory. Joe Merritt asked for further guidance. There was a decision that somewhere near the beginning there should be a history and/or a description of the OBFS. The hope was expressed that Bob Dagleish would agree to prepare a page or so for that. It was decided that for the present there was not a need to prepare a brochure to advertise the directory. It was decided to plan on printing 2500 copies - 2000 for distribution to those on the AIBS Bio-Science department list, which is used for distributing the Course Announcement Poster, and 500 copies for distribution to our members and in general.

B. Armitage will write to Boyd Strain explaining why we do not intend to meet with the AIBS.

C. Ken Armitage will also write to Jim Edwards and ask for a list of the awards from the special competition.

Here endeth minutes of all sorts on meetings both executive and membership.

II. OBFS BALLOTTEE

"YE OLDE OFFICIAL OBFS BALLOTTE"

Please return to OBFS, P.O. Box 351, Eureka, MO 63025 by 12/30/88
(ONLY station members eligible to vote).

I	ELECTION OF PRESIDENT	
	NOMINEE: <u>Ken Armitage</u>	<input type="checkbox"/>
	WRITEIN: _____	<input type="checkbox"/>
II	ELECTION OF VICE-PRESIDENT	
	NOMINEE: <u>Jerry Rozen</u>	<input type="checkbox"/>
	WRITEIN: _____	<input type="checkbox"/>
III	ELECTION OF EDITOR	
	NOMINEE: <u>Joe Merritt</u>	<input type="checkbox"/>
	WRITEIN: _____	<input type="checkbox"/>
IV	ELECTION OF EXECUTIVE COMMITTEE	
	MEMBER AT LARGE - 1 yr. term	
	NOMINEE: <u>George Lauff</u>	<input type="checkbox"/>
	WRITEIN: _____	<input type="checkbox"/>
	MEMBER AT LARGE - 2 yr. term	
	NOMINEE: <u>Jeff Kennedy</u>	<input type="checkbox"/>
	WRITEIN: _____	<input type="checkbox"/>

III. FINANCIAL REPORT

OBFS FINANCIAL REPORT

Balance Checking Account, September 24, 1987 \$12,748.07

Income

Dues	\$4630.00	
Interest on NOW	683.72	
Interest on CD	456.25	
		<u>5769.97</u>
		18,518.04

Expense

Office and Miscellaneous

Secretarial	700.00*	
Postage	228.59	
Phone (toll calls)	99.94	
Copy Center	68.95	
Letterhead (at W.U.)**	39.00	1136.48

Bank Charges	6.83	
Letterhead	66.49	
OBFS Logo	250.00	

AIBS Dues	100.00	
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Newsletter	556.27	
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Directory

Questionnaire	188.91	
Secretarial	72.19	
Photographer (cover)	50.00	
Postcards	52.30	363.40

2479.47

Investment Additional amount added to G.D.	<u>2500.00</u>
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Balance Checking Account August 31, 1988	<u>13538.57</u>
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Asset.....CD #6837 - \$7500.00...expires October 2, 1988

Current Net Worth.....\$21,038.57

*Actual cost \$873.65 - 101 hrs @ \$8.65

** OBFS Letterhead Printed at W.U.

* * * * *

IV. STATUS OF OBFS MEMBERSHIP

CURRENT STATUS OF OBFS MEMBERSHIP

138 members - 91 station members; 47 individual members
12 new members; 9 new directors at member stations
1 new affiliation; 5 resigned; 1 reinstated

NEW MEMBERS

James Bednarz - Hawk Mountain Sanctuary PA
Dr. Stephen Carpenter - Environmental Research Center IN
Dr. Philippe Cohen - Granite Mountain Natural Reserve CA
Dr. George Crozier - Dauphin Island Sea Laboratory AL
Dr. Philip Helfrich - Hawaii Institute Marine Biology HI
Lynn Jordensen - Minneapolis MN
Judith Kenis - Julian Center Science & Education CA
Dr. Joerg Henner Lotze - Eagle Hill Wildlife Res. Sta ME
Dr. Jack Morton - Indian River Marine FL
Dr. Elfie Prepas - Meanock Biological Res Sta ALBERTA
Dr. M. K. Seely - Desert Ecological Research Unit NAMIBIA
Dr. John Tenhunen - Systems Ecology Research Group CA

NEW AFFILIATION

Dr. Donald McCrimmon - Mt. Desert Island Biol ME

NEW DIRECTORS AT MEMBER STATIONS

Dr. Richard Anderson - Kibbe Life Sciences IL
Dr. David Inouye - Mountain Research Station (INSTAAR) CO
Dr. Joseph King - Hancock Biological Station KY
Dr. Donald Prusso - Whittel Forest NV
Dr. George Robinson - Delta Marsh MANITOBA
Dr. A. Scott Reed - Cloquet Forestry Center MN
William Shields - Granberry Lake NY
Dr. Donald Siniff - Itasca Biological Program MN
James Wolf - Archbold Biological Station FL

REINSTATED

Dr. Roger Lederer - Eagle Lake Biological Field Sta CA

RESIGNED

David Gates - University Michigan MI
Edward Horn - N.Y. State Env Cons NY
Michael Mackey - McIntyre Med Sciences MONTREAL
Mark Noble - Individual Member
B. G. Whiteside - S.W. Texas State Univ TX

V. COMMITTEE REPORTS

A. REPORT TO THE ORGANIZATION FIELD STATIONS, 1988

by Jerome G. Rozen, Jr., OBFS

representative to the AIBS

The Council Meeting of the AIBS was again convened this year at the AIBS headquarters in Washington, D.C. Dr. Rozen attended as a representative to the Council on behalf of the Organization of Biological Field Stations and of the American Museum of Natural History. The purposes of these annual meetings are to inform the representatives of the activities of the AIBS during the preceding year and to foster and enhance the relationships between the AIBS and its adherent societies. Dr. Boyd R. Strain, professor of botany and director of the phytotron at Duke University, became the AIBS president for 1988. Dr. John Patrick Jordan assumed the position of president-elect of AIBS and Dr. Paul A. Opler was re-elected secretary-treasurer of AIBS. At one session of the meetings Congresswoman Claudine Schneider (R-Rhode Island) discussed initiatives underway to develop new legislation for the protection of biodiversity. She is the ranking minority member of the Natural Resources, Agricultural Research and Environment Subcommittee of the House Science, Space and Technology Committee. At the conclusion of the meeting, Dr. Gerard Piel, retiring chairman of Scientific American, received a special award at the National Museum of Natural History.

Dr. Rozen, as a member of the finance committee of

AIBS, attended a meeting of the committee in late July 1988 and is happy to report that the financial problems of the AIBS identified in last year's statement have been largely overcome.

The AIBS is an umbrella organization to represent the field of biology in Washington, D.C. Its greatest value to OBFS and to other adherent societies is in the fact that staff members of AIBS understand the structure of the federal government, know how it works, are acquainted with key personnel and track pending legislation of importance to the profession of biology. If officers of OBFS wish to contact government agencies on behalf of the society, Dr. Charles Chambers, executive director of AIBS, would gladly assist in advising and establishing meetings with appropriate representatives of the government agencies.

B. REPORT ON INTERIM COUNCIL MEETING OF AIBS
15 AUGUST 1988, UC/DAVIS

This year marks the first time that a second (interim) AIBS council meeting has been called. The regular annual meeting is being moved from mid-November to mid-February with the next scheduled meeting in February 1989. To keep the council informed of progress during the 15-month period between regular council meetings, an interim meeting was held at UC/Davis in conjunction with the 39th Annual AIBS Scientific Meeting. The interim meeting was well attended and received. It was a popular event and may become a regular one at future AIBS scientific meetings.

The business portion of the meeting was quite brief with the following highlights:

The Executive Committee, which analyses AIBS efforts in public arenas and directs areas of emphasis, is currently trying to work with the US Postal Service to get reasonable federal regulations for mailing of "disease" organisms. The latter are being interpreted so broadly that many research and educational activities are being hampered. Progress was reported as good.

AIBS membership has stabilized since the last mass mailing campaign to increase membership. Another is planned for next year to try to boost membership further.

The Educational Testing Service (ETS) of SAT, GRE and achievement test fame is exploring a new concept and seeking advice from AIBS. The idea is to develop sets of standardized questions within subject areas which would be distributed directly to universities to administer themselves. These tests would supplement, possibly replace, GRE tests for graduate admissions. The plan appears to be in an embryonic stage.

The American Foundation for Biological Sciences was formed by AIBS two years ago to permit creation of an endowment for life sciences education as supported by AIBS. Application to IRS for tax exemption has been made, and the expectations are that it will be favorably received.

The majority of the meeting was taken up with a presentation by David E. Blockstein, soon-to-leave AIBS/ASZ Congressional Fellow, on the progress of the National Biological Diversity Conservation and Environmental Research Act (HR 4335), or the national biodiversity legislation. HR 4335 currently has 88 co-sponsors in the House, and

has been approved by the Subcommittee on Natural Resources which reports to the House Committee on Science, Space and Technology. The latter committee will probably review the bill this year (especially given sufficient public pressure) but Blockstein was pessimistic about it ever leaving the House since it is an election year and Congress will recess early.

As now drafted the bill would:

- * Contain a national policy statement endorsing conservation of biological diversity, both nationally and internationally.
- * Establish a federal strategy for conservation of biological diversity.
- * Amend the National Environmental Protection Act, which requires environmental impact statements on all federal projects, to include an assessment and statement on biological diversity.
- * Require all federal agencies to review their programs to see how they would comply.

* Establish an Interagency Committee between land managing agencies (BLM, USFS, NPS, etc.) and science agencies (NSF, NASA, EPA, etc.) to coordinate activities and response.

>>>> Establish a National Center for Biological Diversity with a \$ 5 to 10 million annual budget to: 1) establish a data base; 2) review literature and existing data and summarize current knowledge; and 3) contract for research/surveys in areas of little knowledge or critical need.<<<<<

Dr. Blockstein felt that if the legislation is not passed this year it has an excellent chance of passage with the next Congress. He encouraged all present to write in support of the legislation to their local congressional members; and to the current Chairman of the Committee on Science, Space and Technology --

Hon. Robert A. Roe, Chairman
Comm. on Science, Space and Technology
2321 Rayburn House Office Building
U.S. House of Representatives
Washington, D.C. 20515
202-225-6871

The final portion of the interim meeting was a commemoration of the 30th anniversary of the founding of the Biological Sciences Curriculum Study, followed by a brief symposium on the undergraduate curriculum development.

Submitted by Arthur McKee, Andrews Experimental Forest.

C. SUMMER COURSE ENROLLMENTS

Comparative Summer Course Enrollments
 Last Twelve Years 1977-1988
 at Seven Selected Biological Stations

Biological Station	77	78	79	80	81	82	83	84	85	86	87	88	12 Yr. Average
Univ. of Iowa (Lakeside Lab)**	53	36	38	28	48	32	31	42	34	26	40	35	37
Michigan State Univ. (Kellogg)**	92	77	92	79	94	53	45	32	39	54	94	97	71
Univ. of Michigan (Douglas Lake)*	118	111	128	128	105	103	98	79	124	112	107	128	112
Univ. of Minnesota (Lake Itasca)**	94	92	93	88	91	62	74	68	52	56	49	54	73
Univ. of Montana (Flathead Lake)*	72	63	77	53	56	62	62	51	45	45	30	51	55
Univ. of Oklahoma (Lake Texoma)*	68	88	62	78	67	53	75	55	63	52	64	67	66
Univ. of Virginia (Mountain Lake)**	37	32	38	51	35	33	33	31	31	22	17	23	32
Total Per Year	534	499	527	505	496	388	408	358	388	367	401	455	446

*enrollment for one eight-week session
 **average of two five-week sessions.

PREPARED BY MARK PADDOCK, OBFS EDUCATION COMMITTEE

VI. ANNOUNCEMENTS

A. ATTENDANCE -- 1988 ANNUAL MEETING

Host Station: National Audubon
Society - Maine
Jeffrey Froke

Susan Allen
Rocky Mountain Biological Lab
Colorado

Kenneth B. Armitage
Exper & Applied Ecology Program
Kansas

Nevin Aspinwall
Reis Biological Station
Missouri

Jeffery T. Burkhart
Phillips Univ Field Campus
Oklahoma

Wm P Coffman for D Hartman
Pymatuning Lab of Ecology
Pennsylvania

Peter Connors
Bodega Marine Lab
California

Steve Davenport
Long Marine Lab
California

Daniel R. Dawson
Valentine Eastern Sierra
California

Robert L. Fisher
Raystown Field Station
Pennsylvania

Alan Grundman
Jasper Ridge Biological Pres
California

Robert W. Hastings
Turtle Cove Biol Res Station
Louisiana

Stephen P. Havera
Ill Natural History Survey
Illinois

Lucile A. Housley
Malheur Field Station
Oregon

David Inouye
Mountain Research Station
Colorado

Tony Joern
Cedar Point Biological Station
Nebraska

Paul Kehis
Julian Center for Science
California

Jeffery Kennedy
UC Natural Reserve System
California

George H. Lauff
Kellogg Biological Station
Michigan

Roger Lederer
Eagle Lake Field Station
California

David Mahan
Au Sable Institute
Michigan

Raymond Masters (for Porter)
Adirondack Ecol Center
New York

Arthur McKee
Andrews Experimental Forest
Oregon

Joseph F. Merritt
Powdermill Nature Reserve
Pennsylvania

Robert Olson (for Weber)
Hatfield Marine Science
Oregon

Katharine Parsons (for Mallory)
Manomet Bird Observatory
Massachusetts

Gordon Robinson
Delta Marsh
Manitoba

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

Wade C. Sherbrooke
Southwestern Research Station
Arizona

Lavern Weber
Hatfield Marine Science
Oregon

David S White
Hancock Biol Station
Kentucky

Individual Members

Jim Bednarz
Hawk Mountain Sanct
Pennsylvania

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

Robert Dalglish
Southeastern Mass Univ
Massachusetts

Lynn E. Jørgensen
Biological Photographic Asso
Minnesota

James N Layne
Archbold Biol Station
Florida

Paul Siri
Bodega Marine Lab
California

Mark R Stromberg
Hastings Natural History
California

John Tester
Cedar Creek Natural Hist
Minnesota

Linda Vescio
Cedar Point Biological Station
Nebraska

Visitors

Robert D Aldridge
Reis Biol Station
Missouri

R. J. (Jay) Bogiatto
Eagle Lake Field Sta
California

Douglas Dow (rep)
Univ Mich Bio Sta
Michigan

Mike Hamilton
James Reserve, UCNRS
California

Jack J Karnig - visitor
Black Rock Forest
New York

Judy Kenis
Julian Center for Science
California

Michael Templeton
National Science Foundation
Washington, D.C.

Mary Whitmore for J Teeri
Univ of Michigan
Michigan

B. GOALS OF THE ASSOCIATION OF ECOSYSTEM RESEARCH CENTERS (AERC).

At our annual meeting in September, we discussed whether OBFS should join the Association of Ecosystem Research Centers (AERC). We decided not to join, but several of our members have joined. So that our membership may be aware of the purpose of the AERC, two paragraphs briefly describing the goals of AERC are reproduced from a letter from its secretary, Orrie L. Loucks. If you are interested in joining or want more information about AERC, write to Dr. Loucks at the Holcomb Research Institute, Butler University, 4600 Sunset Avenue, Indianapolis, IN 46208.

A central purpose of the Association is to advance ecosystem studies at the local, regional, national and international levels. Among our initiative in this area have been meetings or other contacts with NSF, EPA and other mission-oriented agencies to acquaint them with the specialized resources of our members and the interests of our membership. In addition, we expect to provide scientific briefings and information to congressional staffs.

One of our major goals is to support and encourage cooperation in research and training among ecosystems centers. We believe that it is vital to broaden the opportunities for training of ecosystem scientists and that rigor and breadth of experience are important parts of such training. Students at any one center generally have few opportunities to study more than one ecosystem or to acquire much breadth of specialized training in new techniques, but better information of the programs of sister centers can broaden those opportunities.

Submitted by Ken Armitage, President, OBFS

C. BIRD-BANDING PROJECTS

There are several initiatives from various sources that urge LTER sites and Biological Field Stations to coordinate research and environmental monitoring. An activity that OBFS can sponsor is the coordination of bird-banding projects at various field stations. If we can establish systematic sampling and banding of bird populations in a variety of habitats represented at our field stations and conduct banding at approximately the same time of year, we could likely generate comparable data sets and probably detect regional and/or national trends. These activities can be coordinated with the Bird Banding Lab where a program should soon be available for efficient data transfer and storage. In many areas, our field stations may be the only protected and supervised remnants of critical habitats. Susan Allen at RMBL has kindly consented to help get this program started and to coordinate it, at least during the initial stages until a permanent directorship/coordinating committee can be established. If you are interested in participating in this activity, please write to one of us by February 1, 1989, so that initial planning can occur during the spring.

Susan Allen
Ken Armitage

KBA: gs/5/TL3

First Report of the OBFS

D. Committee on Administration and Facilities

November 28, 1988

At the business meeting on Hog Island on Sunday morning, 9/11/88, this committee agreed to distribute and/or solicit various types of information via the OBFS Newsletter. Some of that information follows.

1- Job Markets

In response to questions about where preserve-type jobs might be posted and read, the Committee received several suggestions and three tangible handouts. Portions of each are xeroxed as attachments to this report.

Environmental Opportunities is a nationwide newsletter suggested by Wade Sherbrooke, who copied the first and last pages of a 5/20/88 issue for the attachment. Subscription information is on the last page. Wade thinks that a free sample issue is available for the asking.

Jeff Kennedy suggested some computerized bulletin boards, and we received information about the following two.

BioTron is operated by the AIBS. It lists all positions (open and sought, classified and display) advertised in *BioScience* -- 3 months ahead of the magazine! To ads you need an access number from AIBS, but to read them you simply need a computer, a modem, and information on the attachment (which is a combination of their handout and the monthly announcement in *BioScience*).

EcoNet is part of a San Francisco non-profit institute serving environmental activists. Job listings are not mentioned in their mailer, but a phone call confirmed that they do have such a bulletin board. Fee required for all services.

2- Applied Technology Files

Jeff Kennedy accumulates files on various subjects of interest to many members. At Hog Island he distributed xeroxes from his file on Geographic Information Systems. Jeff volunteered to assemble similar packets for general distribution at the September 1989 meeting on each of the following subjects:

- Power supply systems
- Sanitation
- Grid systems
- Digital data capture

If summaries of basic information on other technologies would be useful to you, let Alan Grundmann know and the Committee will see if it can find a source.

3- Administrative Standards

At the business meeting it was suggested that the Committee poll the entire OBFS membership (probably via the Newsletter) and distribute summaries (probably at the next annual meeting) of how different kinds of preserves deal

with common administrative concerns -- among which were suggested: safety matters; handouts concerning regulations and warnings; and animal care.

The Chairman decided first to scan responses to the immense questionnaire completed by many preserves for the October 1984 workshop on Research Needs of Biological Field Stations -- hoping to measure common concerns more broadly, and perhaps even find enough material to warrant summary distribution.

But it turns out that, at the moment, no one can put his hands on the completed questionnaires.

We will keep you posted.

4. Simultaneous Sessions

At the general meeting it also was suggested that this Committee develop and distribute in an early Newsletter a memo of possibilities for short talks on either of the types of subjects above, to be given in simultaneous sessions at the next general meeting. Here the Committee is delinquent (and also a bit confused about its relationship to the Program Committee). So, having made no attempt yet to find potential speakers, we merely select mainly from a list of subjects provided 18 months ago by Jim Layne, for a vote by the membership on what would be worth taking the trouble to organize.

_____ One (or more) of Jeff Kennedy's subjects,
specifically _____

_____ Hazardous waste disposal.

_____ Collecting/bird banding permits,
how managed, problems resulting from.

_____ Exotic species & introductions,
rationale for various policies concerning.

_____ Manipulative experiments in natural areas,
rationale for various policies concerning.

To vote, mark your choice, fill in your particulars below, tear off this page (or xerox it), and mail to

Alan Grundmann, OBFS A&F Ctty.
Jasper Ridge Biological Preserve
Biology Dept.
Stanford CA 94305-5020

who also will happily receive further suggestions concerning any of the subjects above, and hereby submits this report.

-#-

Voter name: _____ Station name: _____

Can suggest persons who might talk on the subject?



Sanford Berry, Editor
Box 969, Stowe, VT 05672
802/253-9336

Vol. 7, No. 5 May 20, 1988

ENVIRONMENTAL OPPORTUNITIES

SERVING ENVIRONMENTAL JOB INTERESTS THROUGHOUT THE UNITED STATES

ADMINISTRATION

Executive Director, Ecology Action Educational Institute, Modesto, California
Resp: financial mgt.; incl. budgeting/fundraising; prog. dev. incl. event planning, grant writing/implem., volunteer coord., issue advocacy, newsletter prep., media work & public relations. Qualif: BA & adminis./mgt. exp. highly pref. exp. w/grassroots organizing, public speaking & press relations. 2/3 time position leading to fulltime in 8-12 mos. Start: 6-15-88. C.D.: immediately. Send resume w/cover ltr. to: Ecology Action, P.O. Box 3895, Modesto, CA 95323.

Executive Director, Nebraska Sustainable Agriculture Society, Hartington, Nebraska (802/254-6893)
Resp: work w/active board of directors on non-profit, membership org's goals & policies; develop/submit funding proposals, budgets & membership drives; ident. issues, coord./devel. new projs. incl. organizing local groups, scheduling farmer workshops & farm tours; coord. activities w/other orgs.; edit bi monthly newsletter; repres. org. at outside meetings. Qualif: BS or similar exp. in agric. or community organizing; good commun. skills - writing, media releases & speaking to diverse groups; bkgd./familiarity w/sustainable agric.; ability to work w/all institutions/personalities. \$13,17,000/yr. benefits. C.D.: when filled. Send cover ltr., resume & a 1-2 page essay about why you would like the position, your personal goals & skills you can contribute to the org. to: Steve Ela, NSAS, P.O. Box 736, Hartington NE 68738.

Director of Development, National Parks and Conservation Association, Washington, DC
Resp: manage devel. office; org. has tripled membership & quadrupled annual budget w/prog. of planned growth in 7 yrs. Qualif: must have proven track record in membership devel., foundation, corporate & individual solicitation, public relations & marketing; solid planning exp. C.D.: when filled. Non-smoking office. Send resume w/salary history to: Cobb Bates, NPAC, 1015 31st St. N.W. Washington DC 20007.

Executive Director, Hitchcock Center for the Environment, Amherst, Massachusetts
Resp: fundraising, financial mgt., school contract negotiations, overall mgt. of EE/science ctr. w/8 fulltime & 20 parttime educators, a budget of \$350,000, a summer day camp & contracts w/dozens of school systems. Qualif: understanding of informal science educ. & EE; proven grantwriting/fundraising skills; understanding of or willing ness/ability to learn accounting; energy & proven ability to organize/manage many projs. simultaneously. Salary low to mid 20's; excel. benefits. C.D.: when filled. Send resume & cover ltr. to: Bev Cowdrick, Hitchcock Center for the Environment, 525 S. Pleasant St., Amherst MA 01002; 413/256-6006.

Work Program Director, East Bay Conservation Corps, Oakland, California
Resp: mgt. of EBCC's ongoing work prog. & devel. of new projects, contacts & work program components; report directly to the Exec. Director & work within a mgt. team. Qualif: degree in public adminis., landscape arch., res. mgt. & forestry, env. science, educ. or a rel. field; Master's pref.; 4 yrs. exp. in admin. & prog. mgt.; preferably in a setting involving youth in on-the-job training or conserv. corps. prog.; demonstrated ability to provide strong leadership; knowl. of good mgt. practices; ability to supervise prof. work supervisors as well as unskilled youth; knowl. of conserv. and/or construction work projs.; ability to effectively work w/broad range of people; ability to monitor financial & prog. activities; excellent oral/written commun. skills; good driving record & Class II CA driver's license. \$2,200-\$3,300/mo. dep. on exp. C.D.: ASAP. Interviews will be conducted w/applicants whose bkgd./exp. most closely correspond to position requirements; resumes must demonstrate that the applic. has met stated qualifs. Submit resume & cover ltr. to: East Bay Conservation Corps, 1021 3rd St., Oakland, CA 94601.

Work Project Coordinator, East Bay Conservation Corps
Resp: development & implementation of work projects, liaison w/work project sponsors; report directly to Work Program Director. Qualif: degree in landscape arch., res. mgt., forestry, env. science, public adminis. or rel. field; 2 yr. tech. degree in hortie., contracting, construction or similar field plus 2 yrs. rel. exp. may be substituted for the educ. req. if exp. closely parallels specific position opening; 2 yrs. exp. in work proj. coord. and/or implem., preferably in a setting involving youth in an on-the-job training or conserv. corps. prog.; tech. knowl. of work projs. such as land scaping, res. mgt., erosion control, revegetation, fire prev., trail bldg./repair, bldg. renov., const. & carpentry; ability to eval. potential work, estimate materials/tools/supplies, plan/implem./supervise & monitor work projs.; ability to use & teach safe/proper use of hand & power tools; skills in oral/written commun.; good driving record and a Class II CA driver's license; standard 1st Aid req. \$1,700-2,250/mo. dep. on exp. Same C.D. & contact as above. EOE

Dean of Faculty, The School for Field Studies, Beverly, Massachusetts
Resp: academic prog. devel. & scientific research direction of the School; supervise 4 Centers (Kenya, Australia, Mexico & Caribbean), 12 faculty, 30 part time faculty & support staff. SFS is the leading intl. undergrad. prog. offering coursework & field res. in conserv. biology at field sites throughout the world w/annual student enrollment of 700. Qualif: Ph.D., pref. in conserv. biology, res. mgt. or rel. field; must have signif. exp. in educ. adminis. field work (pref. overseas), and in teaching/research; must exhibit commitment to nontrad. educ. & be ready for the challenge of directing a rapidly expanding educ. prog. \$50,000-60,000 & benefits. Send C.V. & ltr. of recom. to President's Office, School for Field Studies, 376 Hale St., Beverly, MA 01915. EOE

Sponsored by: Environmental Studies Department, Antioch/New England Graduate School
Keene, New Hampshire 03431

resp., hard worker; able to work indep. or w/others. Will relocate, prefer rural or wilderness location, need small house w/fenced yard. Avail. now. Resume & refs. on request: Mary Cottell, 7702 Windy Knoll Dr., Cincinnati OH 45241; 513/779-9357.

Biological/Fine Arts Illustration/Painter/Naturalist specializes in tropical botany, entomology, invert. marine biology. BA in Art, MFA-Art History/Indian (Asian) & Pacific art. Art & Assoc. Ed. of small press literary mag. Seeks illustration tlon in warm climate. Will travel, do habitat drawings, love outdoor work w/plants & animals. Extensive travel/living overseas. Exp. in writing, publishing, teaching, lecturing, exhibits, cultural demonstrations. Avail. July/Aug. '88. Detailed resume avail. Contact: Penelope VanderMeer, 3712 N W 16th Blvd., Gainesville FL 32605.

Dynamic Programmer/Teacher/Administrator seeks position w/progressive outdoor recr./env./experiential educ. org. BA in Psychology, BS in Recr. w/extensive exp. in intl. travel, therapeutic recr., sales & marketing; excellent communica- t org. skills. Tenacious, flexible & creative. Contact: Seth Monoson, 915 N. 52nd St. #1051, Phoenix AZ 85008; 602/225-9456.

Activist seeks position with conserv./animal protection org. Exp. includes Conservation Chair & Secretary at local levels, 20 yrs. of letter writing; newsletter articles, testifying, phone tree. Sincere concern for protection of our nat. resources and all living things. Three yrs. college in Business Adminis., Horticulture. Addtl. info. & refs. avail. on request; Robbie Earon, P O Box 17873, Salem, OR 97305; 503/364-9590.

Environmental/Computer Science position sought in Rocky Mountains; MS - Zoology, BS - Wildlife Biology; 2 yr. post grad studies in Computer Science; extensive exp. in biol. research & env. mgt. in Alaska; Computer programming & consult- ing in NM. Contact: Jon T. Klingel, 3402A Indian School Rd. N E, Albuquerque NM 87106; 505/255-1938.

Young married couple; BS in Criminal Justice; BS in Recreation Mgt.; seeking a caretaker position, preferably in a wilder- ness setting. For resume & refs., write to Cindy Clemens, 10172 Bedford, Dowling, MI 49050.

Computer Programming position wanted with environmentally active org. BA-Math, BS-C.S.; 7 yrs. exp. w/several systems, languages & databases. Resp. for software analysis, system design, coding, testing, maint., documentation & support. Highly self-motivated & willing to learn. Will relocate. Contact: Greg Turner, 1415 E. 55th Pl., Tulsa, OK 74150; 918/749-9338 or 491-3466.

Creative, committed Journalist seeks employment w/env. publication. Skills incl: reporting, writing, rewriting, library research, fact-checking, copyediting, layout, editorial vision/mgt. Master's in Journalism, undergrad. studies in env. Fluent in various word processing progs. & Macintosh desktop publishing. Seeking long-term staff position, able to relocate now. Contact: Karina Lutz, 24238 Arch St., Newhall, CA 91321.

Wildlife Research position wanted in the Fairfield County area of Connecticut. Abilities incl: writing skills, photography, AA degree, extnal scientific bkgd. Interested in all varieties of wildlife. Avail. now. Contact: Sandra Lutinski, 25 Woodbine Circle, Bridgeport CT 06606.

Position wanted as Naturalist or Env. Educator. BA in Zoology & BS in Elem. Educ.; Certificates in Secondary Biology & Elem. Educ. Exp.: 2 yrs. as naturalist, 3 yrs. teaching. Contact: Jane Papsdorf, Rt. 2 Box 271, Polo, MO 64671.

Eddicated Backwoodsman - I came out of the Adirondack woods to get my degree in Env. Studies/English (cum laude, St. Lawrence Univ. '84) and now that I've had a chance to bounce around a bit (DC, NJ, NC & even U.K.!) I want to put it to work for the cause. A position involving but not limited to writing would be best, but I'll consider anything. Dan Combs, HC-02 Box 112-A, Warrensburg, NY 12885.

Resource Management/Conservation position sought. Experienced in res. mgt., & business. Exp. incl. regional planning, env. impact assessment, wildlife habitat eval. & remote sensing. Business exp. incl. budgeting, marketing/mgt. of con- cts, operations, finance & personnel. MBA with BS in Forest Mgt. Will relocate. Please contact: Peter Wikoff, 518 Ave., Asbury Park NJ 07712; 201/988-0463.

Land Protection program - seeking and acquis./related position w/dynamic land trust or wildlife conserv. org. UC/Berke- ley grad. w/extensive exp. in property transactions & planning, land devel. & mgt., tax & legal. Some fundraising. Demonstrated ability to gain cooper. from range of people with varied interests; proven skills in writing, public speaking, working w/govt., and small office mgt.; project oriented, versatile, sense of humor. Hard worker w/strong conserv. ethic. Also seasoned commercial pilot; prefer western states. Contact: Stanford Brown, P O Box 4148, Ketchum ID 83340; 208/726-7372.

BULLETIN PROCEDURES

Full-time notices are published once unless the closing date & space allow for more than one inclusion. No internship announcement will be printed two or more consecutive mos nor more than twice per year. The bulletin's CLOSING DATE is the second Friday of the month, with publication falling on the third Friday monthly (second Friday in Nov. Dec.). New subscriptions received over five (5) days beyond the date of publication will commence with the following issue. All position announcements are subject to edit- ing. THERE IS NO CHARGE TO EMPLOYERS SUBMITTING VACANCY ANNOUNCEMENTS

ENVIRONMENTAL OPPORTUNITIES

P. O. Box 969, Stowe, Vermont 05672

New subscriptions: 6 months/\$22.00; 1 year/\$39.00; 2 years/\$64.00

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AMERICAN INSTITUTE OF BIOLOGICAL SCIENCES

Announcing . . .

BioTron

TM

The Biologist's Electronic Network
(A new member service from AIBS)

Currently BioTron contains positions open and sought. These are posted daily on receipt. They remain active through the advertiser's closing date or six months. Scan the listings first and select message numbers desired by subject. Then read or download the chosen ones. Post your own positions, open or sought, as appropriate. Also, please complete the brief survey before exiting. Responses are only kept in summary form to aid planning. Future services will include BioScience contents, meeting programs and abstracts, new products, book reviews, bulletin board and electronic shopping!

Operating Menus

AIBS Professional Opportunities

- <S>can Scan position listings
<R>ead Read position listings
<P>ost Post position listings
<T>erminal Adjust terminal settings
<M>ember Change member password
<D>ay/Time Display calendar/clock
<U>ser Profile survey
<E>xit Leave BioTron

COMMANDS

Scan Professional Opportunities

- <O>pen Positions open
<S>ought Positions sought
<E>xit Return to main menu

Read Professional Opportunities

- <O>pen Positions open
<S>ought Positions sought
<E>xit Return to main menu

Post Professional Opportunities

- <O>pen Positions open
<S>ought Positions sought
<E>xit Return to main menu

Exit Professional Opportunities
Please take survey before leaving

- <U>ser Profile survey

Are you ready to exit?

- <Y>es Leave BioTron
<N>o Return to main menu

To access BioTron, dial 202-628-AIBS (202-628-2427) 24 hours a day, seven days a week, with the following standard modem setup: 300 or 1200 baud, 8 data bits, 1 stop bit, no parity, full duplex, Xon/Xoff active, carriage return at end of lines. Stop/start received text with Control-S/Q. At prompts, enter name, city, state and membership number. Then select a 40 or 80 column terminal, with or without line feeds, or select <?> to set your own configuration. Submit any comments or report any difficulties to BioTron, AIBS, 730 11th Street, N.W., Washington, DC 20001-4584, 202-628-1500. We hope you enjoy this new member service from AIBS! *Also 2400 baud.

What exactly is EcoNet?

"EcoNet" is a computer-based communication system helping the environmental movement throughout the world to communicate and cooperate more effectively and efficiently. A large minicomputer, based in northern California, connected to Telenet (a common carrier), enables EcoNet users to communicate globally; usually through a local phone call.

Does EcoNet require a special computer?

No. EcoNet is compatible with nearly any personal computer or computer terminal outfitted with a 300 or 1200 baud modem (also 2400 baud in some locations).

How much does it cost?

EcoNet's rates are among the cheapest anywhere. With a \$10 sign-up fee, you get a user manual and a free hour of off-peak computer time (weekday evenings, weekends, and holidays). Then you pay a monthly charge of \$10, which gets you another hour of off-peak computer time each month. Every additional peak hour is \$10 and every additional off-peak hour is \$5. There is also a small charge for users requiring a large amount of storage space.

There are some fantastic resources in EcoNet's rapidly growing list of conferences that we want you to know about. We present here a sampling of what we consider the most useful conferences which are being developed or are now online. We encourage you to explore these resources and to help us identify and make available additional sources of information.

netnews, sysdocs, en.alerts, en.announcements, en.calxxx These are some of the conferences maintained by the network staff. **Netnews** brings you updates on EcoNet development issues, new features, system changes, etc.; **sysdocs** holds all of EcoNet's system documentation; **en.alerts** is where short (10 lines or less) and time urgent general interest announcements are posted for the whole EcoNet community to see; **en.announcements** carries longer system-wide reports submitted by EcoNet users and friends; and **en.calxxx** (where xxx is the abbreviation for the month i.e. jun) is where calendar entries are posted. To have your alerts, announcements and calendar entries placed in these conferences, send them to id.support.

en.forestplan Are you interested in plans by the U.S. Forest Service to increase timber harvesting in a National Forest near you? This conference has a wealth of information on individual forests organized by region, so you can find information on forests in Alaska, Appalachia, the Pacific Northwest, the Southwest and other regions quickly. Bulletins on national forest policy issues such as the Forest Service's road building budget are featured, as well as innovative international programs such as Conservation International's purchase of some of Bolivia's debt in exchange for the protection of rain forests in that country.

nrc.yellowstone Find out what conservationists are doing to protect what has been called the largest essentially intact ecosystem in the temperate zones of the earth. This conference is managed by the Northern Rockies Conservation Cooperative in Jackson, Wyoming, and is for people interested in scientific and policy aspects of ecosystem management.

en.legis Would you like to have a weekly summary of environmental topics under consideration by the U.S. Congress? The Environmental Study Conference, Congress's environmental policy forum, provides the most current legislative updates and issue briefs for EcoNet users.

en.toxics Want to know how to obtain detailed information on over 600 potentially toxic chemicals? The United Nations Environmental Program's (UNEP) directory of databases is available to you on EcoNet.

en.ruraldev Are you interested in ways to help solve world-wide developmental problems in the fields of medicine, engineering and education through computer-based telecommunications? This conference provides a forum for international cooperation for assistance to less developed countries.

www.worldwild Want to participate in the 4th World Wilderness Congress to unite statespeople, foreign dignitaries, scientists, and native peoples from around the world, who are discussing the future of the earth's wildplaces? Proceedings from an international meeting, to be held this September in Denver and Estes Park, will be carried on this conference where global wilderness inventory, tropical rainforest destruction, oceanic wilderness, culture and community, and wilderness and the human spirit will be discussed.

en.wildlife Here is a conference for those who wish to read about wildlife species which are rare, threatened, or endangered. News about development proposals which threaten the habitat of spotted owls, cougars and condors and bulletins on the effort to reintroduce wolves in the northern Rocky Mountains are some of the areas covered.

en.enviroed If you are interested in environmental education, go to this conference to be informed of selected publications, events, awards and other items of interest to teachers and administrators of education programs.

en.health Want to attend an "electronic lecture" on emerging models of electronic communications in the field of medicine? Go to this conference to learn about the possibilities for computer networking to improve health care in North America and in the Third World.

en.energy This conference is for EcoNet users who want to know about nuclear power plant issues such as liability in the event of nuclear accidents, solar energy news, and government regulatory programs affecting energy conservation. Energy related news, articles and events are posted on this conference by EcoNet staff and as well as the EcoNet user

Job Conference - 1980 Jobs

EcoNet - The Computer Network for the World's Environmental Community
EcoNet - 3728 Saratoma Blvd., San Francisco, Ca 94115 - (415) 923-0900

EcoNet is a service of the Institute for Global Communications (IGC). IGC is a division of the Tides Foundation, a San Francisco based public charity with principal offices 501 (415) and 509 (415) for the Internal Revenue Code.

VII. QUESTIONNAIRE

A. NSF Program on Equipment and Facilities for Research at Biological Field Stations and Marine Laboratories

1. Did you apply for a facilities grant from NSF? Yes No (If no, please go to No. 5)
2. If yes, were you successful? Yes No
3. Did you have problems with obtaining the institutional match? Yes No

Please answer the following: (If yes, please also answer No. 4)

- 3a. Was your request part of an institutional program already in progress, that is, was your institution previously committed to improving your station? Yes No
- 3b. If yes, did NSF funding make improvement beyond that already approved by the institution possible? Yes No
- 3c. Or was the proposal primarily a means of reducing institutional costs?
 Yes No
- 3d. Was the institutional funding contingent upon your obtaining NSF support?
 Yes No

Please add any comments about your proposal development as it applies to the NSF guidelines.

4. Please describe the nature of the problem of obtaining this institutional match and how you overcame the problem (then go to number 6).

5. For what reason did you *not* apply for NSF support (if more than one reason applies, please number them in the order of importance, with 1 as most important).

- a. Not enough time to prepare a proposal
- b. No need for funds
- c. We're primarily teaching and don't qualify
- d. Institution refused matching funds
- e. Didn't bother as I knew the institution did not have matching funds
- f. Other. Please explain:

If you selected (d) or (e), would you please describe the problem you have with obtaining matching funds.

6. Should NSF continue the facilities support program beyond the anticipated 5 years? Yes No

7. Should funding be increased? Yes No

8. What do you consider a reasonable annual budget for this program given the overall NSF budget?

1-2 million 2-3 million 3-5 million >5 million

9. Should the matching funds provision be retained? Yes No
(Please give reasons for your answer)

10. Please add any additional comments relating to the evaluation and operation of the NSF Program.

Please return to: Ken Armitage, Division of Biological Sciences, The University of Kansas, Lawrence, Kansas 66045, by January 15, 1989.

Adirondack Ecol Center Dr William Porter S Huntington Wildlife Forest Rt 28N Newcomb, NY 12852	Belle Baruch Inst Dr John Vernberg S Marine Biol & Coastal Univ South Carolina Columbia, SC 29208	Delta Marsh Field Sta Dr George Robinson S University Manitoba Winnipeg, Manitoba Canada R3T 2N2
Allen, C M Biol Sta Dr Ronald Dimock Jr S Dept Biology Wake Forest Univ Winston-Salem, NC 27109	Bermuda Biol Station for Research, Inc Dr Anthony Knap S Ferry Reach 1-15 Bermuda	Desert Research Inst Dr Harold Klieforth S P O Box 60220 Reno, NV 89506
Am Museum Natural Hist Dr Jerome Rozen Jr S Central Park West at 79th Street New York, NY 10024	Blandy Experiment Farm Dr Michael A Bowers S Univ of Virginia P.O. Box 175 Boyce, VA 22620	Desert Studies Center Dr Gerald Scherba S Dept Biology California St Univ Fullerton, CA 92634
Andrews, H J Biol Forest Arthur McKee S Dept Forest Science P. O. Box 300 Blue River, OR 97413	Bodega Marine Lab and Reserve Dr Peter Connors S Univ of California Bodega Bay, CA 94923	Eagle Lake Bio Sta Dr Roger J Lederer S Dept Biol Sciences California St Univ Chico, CA 95929
Aquatic Bio Field Sta Dr John W Ferner S Thomas More College Crestview Hills KY 41017	Cedar Point Biol Sta Tony Joern, Director S School Biol Sciences University Nebraska Lincoln, NE 68588-0188	Flathead Lake Biol Sta Dr Jack Stanford S Univ Montana 311 Bio Station Lane Polson, MT 59860
Arnold Biol Sta Charles L Wolfe S P O Box 2057 Lake Placid, FL 33852	Churchill Northern Stu Dr Chris Davies S Box 610, Churchill Manitoba Canada ROB OEO	Forfar Field Station Dr Walter B Bohl S Int Field Studies 2199 E Main Street Columbus, OH 43209
Au Sable Institute S Dr David C Mahan Environmental Studies Route 2, Box 232 Mancelona MI 49659	Conard Environmental Research Area Director I Grinnell Coll Dept Bio Grinnel, IA 50112	Fort Burgwin Res Cen Dr W James Judge S Southern Methodist University Dallas, TX 75275
Babcock Nature Pres Dr Peter Marchand S Johnson State College Johnson, VT 05656	Cranberry Lake Biol Sta William M Shields S SUNY College Environ Science & Forestry Syracuse, NY 13210	F. S. Friedman Fields Sta Carl Merrill S Biology Department Suffolk Uni-Beacon Hill Boston, MA 02114
Bamfield Marine Sta S Director General Delivery Bamfield, B.C. VOR 1B0 VOR 1B0	Crowley T B Laboratory Dr Ross F Shaw S Seattle Pacific Univ Seattle, WA 98119	Granite Mountain Nat Re Dr Phillippe S Cohen Univ California P O Box 101 Kelso, CA 92351
Beaver Island Biol Sta James C Gillingham S Central Michigan Univ Dept Biology Mt Pleasant, MI 48859	Dauphin Island Sea Lab Dr George F. Crozier S Marine Environ Science P.O. Box 369-370 Dauphin Island, AL 36528	Hancock Biol Station David White S Murray State Univ Murray, KY 42017

Hastings Nat History
Reservation
Dr James Griffin S
Star Route, Box 80
Carmel Valley CA 93924

Hawaii Inst Marine Bio
Dr Philip Helfrich
Univ Hawaii - Manoa
P.O. Box 1346
Kaneohe, HI 96744-1346

Highlands Biol Sta
Dr Richard C Bruce S
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