

**Organization of Inland
Biological Field Stations**

**Newsletter
No. 9
September 1969**

ARCHBOLD BIOLOGICAL STATION
ROUTE 2, BOX 820
LAKE PLACID, FLORIDA 32901

ORGANIZATION OF INLAND BIOLOGICAL FIELD STATIONS

Newsletter No. 9
September 30, 1969

1969 Annual Meeting - University of Montana Biological
Station - Yellow Bay, Flathead Lake, Montana, Sept. 4, 5, & 6

List of Participants:

M. Dale Arvey, U. of Pacific, Stockton, Calif., James Barrow, Hiram College, Hiram, Ohio, W. Frank Blair, U. of Texas, Austin, Texas, Robert Dalgleish, Edmund Niles Huyck Preserve, Inc., Ronselaerville, Albany County, New York, Robert Ediger, Chico State College, Chico, Calif., Arden Gaufin, U. of Utah, Salt Lake City, Utah, Cameron Gifford, Earlham College, Richmond, Indiana, William Helm, Utah State U., Logan, Utah, Loren Hill, U. of Mt. Pleasant, Michigan, H.L. Hutchinson, South Dakota State U., Brookings, South Dakota, James Koplin, Humboldt State College, Arcada, Calif., George Lauff, Michigan State U., Hickory Corners, Michigan, Edward Miller, St. Mary's College, Winona, Minnesota, John D. Parsons, Southern Illinois U., Carbondale, Illinois, Gerald Prescott, Flathead Lake Biological Station, Bigfork, Montana, L. S. Putnam, Ohio State U., Columbus, Ohio, Ed Smith, Pacific Marine Station, Marin County, Calif., Fred Sparrow, U. of Michigan, Pellston, Michigan, R. A. Solberg, U. of Montana, Missoula, Montana, Arch Tryon, U. of Pittsburg, Pittsburg, 63, Penn., William Vineyard, Humboldt State College, Arcada, Calif., Jennifer Walker, U. of Manitoba, Winnipeg, Manitoba, Canada, John E. Warnock, W. Illinois U., Macomb, Illinois, Howard Young, Wisconsin State U., La Crosse, Wisconsin.

From Frank Blair:

I. International Biological Program

There is an opportunity for inland field stations to take part in several of the projects of the U.S. participation in the IBP. The main effort of the U.S. is centered on a group of integrated research programs (IRP's). Each IRP represents a multidisciplinary attack on some major environmental problem or problem of human adaptation to environment.

The IRP for "Analysis of Ecosystems" is directed to a functional understanding of major ecosystems. Six subprograms

encompass 6 major ecosystems. Research is under way or getting under way on 4 of the 6 biomes: grassland, desert, deciduous forest, coniferous forest. Preliminary planning is under way for work on the tundra and tropical forest. In the organization of each biome study, one or more "intensive" sites has been or will be selected. In addition, there is a "comprehensive" component in each biome program. This encompasses work in the biome at other places than the intensive site(s). It is here that field stations might play an important role.

Two other IBP's are particularly amenable to field station participation. The IBP for "Phenology" has as one of its objectives phenological mapping for both plants and animals. Field stations would be logical sites for the recording of phenological data. The IBP for "Aerobiology" also involves a network for research on atmospheric dispersal of biologically significant materials. Here, again, field stations provide logical sites for data gathering.

Finally, the IBP has taken an active role in making a feasibility study for a global network for environmental monitoring (GNEM). Such a network would be centered on 25 or more baseline stations and a series of impact stations, located in places of major present or impending environmental disturbance. Since availability of historical data and permanence are two major criteria for baseline stations, inland field stations might well provide the best sites for baseline stations.

Program directors for the previously mentioned IRP's and
Sub-IRP's are:

Analysis of EcosystemsFrederick H. Smith
Graduate School of Design
Harvard University
Cambridge, Mass. 02138

Grassland Biome.....George Van Dyne
College of Forestry &
Natural Resources
Colorado State Univ.
Fort Collins, Colorado 80521

Deciduous Forest Biome.....Stanley I. Auerbach
Radiation Ecology Section
Oak Ridge National Lab.
Oak Ridge, Tennessee 37830

Desert Biome.....David Goodall
Ecology Center
Utah State University
Logan, Utah 84321

Coniferous Forest Biome.....Stanley Gessel
Associate Dean
College of Forest Resources
University of Washington
Seattle, Washington 98105

Tundra Biome.....Jerry Brown
Earth Sciences Branch
U.S. Army Cold Regions
Research and Engineering
Laboratory
Hanover, New Hampshire 03755

Tropical Forest Biome.....Helmut Lieth
Department of Botany
University of North Carolina
Chapel Hill, North Carolina
27514

Phenology.....Forrest Stearns
c/o Forest Genetics Institute
Star Route #2
Rhinelander, Wisconsin 54501

Aerobiology.....W. S. Benninghoff
Department of Botany
University of Michigan
Ann Arbor, Michigan 48104

II. NASA

- 1) Dr. Dale W. Jenkins, Assistant Director
- 2) Bioscience Programs
- 3) National Aeronautics and Space Administration
Washington, D. C. 20546

For your information:

- I. The alphabetical lists should be ready for distribution Oct. 20. They will be indexed as follows:

- A. Director's name
- B. Station name
- C. State

- II. Your list of station 1969 staff for exchange is now late--please give the following information:

- A. Specialties
- B. Seminar
- C. Discussion topics

*Note this list is to be updated with proposed 1970 staff Feb. 1, 1970.

- III. Minutes of the meeting should be ready for distribution Nov. 15.

For your immediate concern and response:

At the 1969 annual meeting additional discussions were held concerning affiliation with A.I.B.S. The group voted to call for a mail ballot which is enclosed.

From the Editor:

Note:

- I. Vote
 - II. Send ballot to the address below:
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