

studies once they are underway. The Coordinator will be appointed by the Program Director with the approval of the Advisory Committee. All are subject to approval by the USNC.

The Coordinator and Advisory Committee will assist the Program Director in the organization, initiation, development, and execution of comprehensive ecosystem studies. These duties will include:

- (1) Developing detailed programs and aiding with project proposals.
- (2) Reviewing progress of current programs and identifying areas needing further research.
- (3) Informing the scientific community of progress in the programs, particularly on methods being used.
- (4) Assisting in attracting investigators to the program.
- (5) Assisting in developing training programs.
- (6) Assisting in developing budgets.
- (7) Assisting in obtaining support for the program.
- (8) Maintaining close communications and cooperation with relevant programs in other countries.

At least three working conferences under the sponsorship of the Subcommittees on Terrestrial and Freshwater Productivity will be held during the winter and spring of 1967 to more clearly define the work to be undertaken in analysis of total ecosystems and contributory studies. One conference will consider criteria to be used in selecting sites for the total-systems studies. A second conference will outline procedures to be used in the contributing studies, and a third conference will be held May 18-19 following the Radioecology Symposium at Ann Arbor, Michigan to plan appropriate systems analysis for the total-systems studies and the contributing studies.

Wherever possible the Freshwater and Terrestrial Productivity Subcommittees will encourage interdisciplinary studies that will fit into the proposed programs of the other subcommittees. One or more of the drainage basin studies should be selected in consultation with the Marine Productivity Subcommittee to include the estuarine portion of the system. Close collaboration will be established with the Environmental Physiology Subcommittee, the joint Micrometeorological Panel of the U.S. National Committee, and the Committee on Atmospheric Sciences of the National Academy of Sciences. Joint efforts are necessary in the study of microenvironments of animals and plants in relation to their physiology. These efforts will also overlap with the activities of the Production Processes Subcommittee as they relate to studies of nitrogen fixation, photosynthesis and water stress. Collaboration with the Systematics and Biography Subcommittee will be desirable when dealing with aspects of species diversity and the evolutionary significance of environmental selection along gradients.

NOTE.—The following is not the budget of this proposal, but a budget prepared in a second report from the PF-PT subcommittees. It is a request for 1 year of support, and includes an explanation of the moneys needed.

<i>Budget</i>	
Salaries and wages:	
Program Director	None
Program coordinator	\$15,000
Secretarial services	6,000
Staff benefits, 12 percent	2,520
Total, salaries and wages	23,520
Indirect costs: 45 percent of salaries and wages	10,584
Site visits and other travel	8,000
Total	42,104

BUDGET EXPLANATION

Program Coordinator

The work required to permit collaborative research on ecosystems, and to coordinate the efforts of contributory investigators, is extensive. The fields of Botany, Zoology, Microbiology, Limnology, Soil Science, Hydrology, Geology, and Meteorology are included. Consultation with prospective participants concerning the contributions they can make to the program are imperative. Persuading others to join the program, so as to complete the overall design of ecosystem study,