

the team" was somewhat novel and appealed to many as promising effective results.

In May, the National Science Foundation, in response to the proposal, announced a grant of \$15,000 to finance a ten-day work conference to be held on August 28-September 6 at Gainesville, Florida, preceding the annual convention of the American Institute of Biological Sciences, of which body the National Association of Biology Teachers is an affiliate member.

A planning committee met in Washington, D. C., on June 1-2 to outline the general course of preparation for the Work Conference. A Steering Committee was selected to determine the policies for the project. This Committee named the following staff charged with selecting participants and planning details of the program:

Richard L. Weaver, Co-Director, University of Michigan
 Samuel L. Meyer, Co-Director, Florida State University
 Ned Bingham, University of Florida
 George Jeffers, Longwood College
 W. Hugh Stickler, Florida State University

To Dr. Meyer and particularly to Dr. Weaver belongs much credit for their work in organizing the program and bringing together a splendid roster of participants.

Members of the Steering Committee were:

Harvey E. Stork, Chairman, Carleton College, Northfield, Minnesota
 Muriel Beuschlein, Secretary, Chicago Teachers College, Chicago, Illinois
 Arthur Baker, President, NABT, Crystal Lake, Illinois
 Hiden T. Cox, American Institute of Biological Sciences
 Samuel Duncan, North Carolina Dept. of Education, Raleigh, N. C.
 Leo Hadsall, Fresno State College, Fresno, California
 George Jeffers, Longwood College, Farmville, Virginia
 W. Edgar Martin, U. S. Office of Education, Washington, D. C.
 Samuel L. Meyer, Florida State University, Tallahassee, Fla.
 E. L. Palmer, National Wildlife Federation, Washington, D. C.

H. M. Phillips, Emory University, Atlanta, Georgia

Malvina Trussell, Florida State University, Tallahassee, Fla.

Richard L. Weaver, University of Michigan, Ann Arbor, Mich.

The following staff assistants were named to work with the above Committee in Gainesville:

Richard R. Armacost, Co-editor, *American Biology Teacher*, Purdue University

John Breukelman, Vice-President, NABT, State Teachers College, Emporia, Kansas

Brother H. Charles, President-Elect, NABT, St. Mary's College, Winona, Minnesota

Ruth Dodge, AIBS representative, Emma Willard School, Troy, New York

Robert Gering, Associate Managing Editor, ABT, Wells College, Aurora, New York

Paul Webster, Secretary, NABT, Bryan, Ohio.

The Publications Committee responsible for compiling this report was under the co-chairmanship of John Breukelman and Richard Armacost. The other members are Samuel L. Meyer, W. Hugh Stickler and Richard L. Weaver.

HARVEY E. STORK
 Chairman, Steering Committee

Introduction

OBJECTIVES OF THE CONFERENCE

Four major objectives were agreed upon by the staff and Steering Committee of the conference. They were:

- I. Establish the proper role and major contributions of the fields of morphology, taxonomy, physiology, evolution and paleontology, genetics, ecology and conservation in the training of biology teachers.
- II. Identify and select some of the major problems found in:
 - a. the teaching of high school biology
 - b. the teaching of college biology
 - c. establishing a state-wide program or emphasis on biology teaching.

- III. Develop suggestions and recommendations for:
- a. the improvement of biology teaching in high school
 - b. the improvement of biology teaching in college with particular reference to teacher training
 - c. greater emphasis on biology teaching, at the state level.
- IV. Provide for preparation of state plans for implementation of the recommendations of the Conference, and have a review panel of state department of education representatives to assist in the evaluation of the proposals.

SELECTION OF PARTICIPANTS

Teams of participants were selected in the ten southeastern states from lists nominated by the State Superintendent of Public Instruction and members of his staff, in each state.

Each team was composed of one or two high school teachers, two to four college teachers of biology and/or science education, one to two administrators from colleges, public schools, or state departments of education.

ORGANIZATION AND CONDUCT

Part I

Six biological scientists prepared written summary statements showing how their special fields could and should contribute to the training of biology teachers. The six scientists met in two-hour sessions with each of six groups during the first three days of the conference. With the help of a recorder who accompanied the scientist, a summary of the reactions of the participants to the prepared statements was made for each of the subject matter areas of biology covered.

Part II

All participants were distributed in four discussion groups so that each group consisted of persons from each state and from each area of instruction or administration.

The problems of teaching biology in high school and college, and in developing a state-wide emphasis on biology were described prior to the conference in a series of written papers prepared by fifteen of the participants.

These are summarized in this report, but the original papers formed the basis for identification and selection of problems to be considered at the conference. Part II of the conference, dealing with problem identification and selection, required a day and a half. Twenty problems were chosen for consideration from the sixty or more which were identified.

Part III.

The same work groups of Part II were retained for Part III of the conference. Two days were devoted to preparing recommendations on each of the twenty problems chosen. Reports from each of the four groups were duplicated and distributed to all participants in the conference.

Part IV

A Review Panel composed of state superintendents of public instruction, staff members of state departments of education and college or public school administrators reviewed the recommendations of the four groups on each of the twenty problems. They indicated whether or not they felt the recommendations or plans of action could be carried out. In the view of their reactions, and further discussion of the plans by the participants, generally, members of the staff compiled the set of recommendations included in this report.

STATE TEAMS

Each of the state teams met one or more times and prepared plans for implementing the recommendations of the conference in their states. A summary of these plans is included in this report.

CONFERENCE EVALUATION

An oral evaluation was conducted at the conclusion of Part I of the conference. A written evaluation was made at the last session of the conference, supplemented by a discussion of ways and means of strengthening similar conferences.

RICHARD L. WEAVER
Co-director

SAMUEL E. MEYER
Co-director