

1973

## University of Iowa UPSTEP Summer Institute

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## CALENDAR OF EVENTS FOR PROJECT ASSIST

Project ASSIST, a statewide improvement concept for Iowa, is in operation. Several have made inquiries concerning the chronology of past events and the goals for the immediate future. The following outline is offered as a response to such inquiries and for the general information of others interested in science education in Iowa.

Fall, 1970 - Announcement of "Package Plan" for certain Universities by NSF  
 March, 1971 - Suggestion by NSF that leaders in Iowa should consider a Comprehensive Plan  
 April-May, 1971 - Meeting with U of I officials and DPI staff concerning a plan  
 Summer, 1971 - Initial draft of comprehensive proposal forwarded to NSF by U of I  
 September, 1971 - Report of NSF staff and panel review  
 November, 1971 - Formal establishment of sixteen regional centers in Iowa with visits with staff in each  
 December, 1971 - Formal Project ASSIST proposal  
 April, 1972 - Review of Project ASSIST with NSF staff  
 May, 1972 - Discussion of planning grant for Project ASSIST  
 June, 1972 - Incorporation of Project ASSIST Concept into AYI proposal at U of I  
 October, 1972 - Discontinuation of AYI program and funding of Project ASSIST as a pilot project  
 November-December, 1972 - Visits with DPI and leaders in all sixteen regional centers  
 January, 1973 - Completion of arrangements for ASSIST decision, structure, staffing, regional coordinators, and time table  
 February, 1973 - Completion of Assessment Plans and first meeting of Advisory Committees and Regional Coordinators  
 February, 1973 - U of I Symposium and involvement of ASSIST Coordinators  
 March, 1973 - Selection of Environmental Team for each center  
 April, 1973 - Completion of leadership roster for each center  
 June-July, 1973 - Seven week conference at U of I for planning and implementing ASSIST programs  
 September, 1973-June, 1974 - Implementation of Statewide Needs Assessment, Community Awareness Projects, Student Program Activities, Model Pre-Service Program, In-Service Projects

## FREE MATERIALS

The Science Education Center at the University of Iowa is now making a number of printed teaching aids available to science teachers. They consist of short articles by the staff which outline procedures and instructional strategies that are ready for classroom use. The initial offerings listed below are related to environmental instruction.

A Survey of Particulate Air Pollution - Background information and a laboratory procedure for the study of particulate air pollution.

A Key to the Identification of Particulate Air Pollution Material - A simplified verbal and pictorial guide to the identification of air pollution particles.

The Investigation of Gaseous Air Pollution - Background information and laboratory procedures for the determination of particulate air pollution.

Water Pollution Tests - A detailed description of the chemical preparations and procedures required for the determination of Oxygen, Carbon Dioxide, Alkalinity, Ammonia, Salinity, Sulfides, pH and Total Suspended Solids.

Soil for Survival Part I Physical Factors - An outline of several simple tests that may be conducted to prepare a report on the physical characteristics of a soil sample.

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## UNIVERSITY OF IOWA UPSTEP SUMMER INSTITUTE

### UPSTEP Overview

UPSTEP is an activity sponsored by the National Science Foundation to explore new and more effective ways of preparing persons to become highly qualified and competent teachers of science. Through the Iowa-UPSTEP program, now in its third year, science talented undergraduates have been involved in numerous activities in science and in teaching. UPSTEP students involved in the summer phase described in this brochure will have completed their third year

as science/mathematics majors and will have had some experiences working with teachers and students in Iowa schools.

### Summer Program Objectives

The summer phase of the UPSTEP program is planned to provide UPSTEP students with an opportunity to work closely with classroom teachers and to begin to solve some of the real problems facing those classroom teachers through student-teacher teams. It is hoped that the teachers involved in the program will develop exemplary curriculum/resource materials for their own classrooms and perhaps new teaching strategies in cooperation with UPSTEP students and other members of the UPSTEP staff.

### Summer Program Activities

Student-teacher teams will be identified very early in the program. Composition of these teams will vary, but in general they will consist of one or two teachers, one UPSTEP student, and one graduate assistant. Activities will center around team development of suitable curriculum materials and strategies designed to solve the problems identified by the teacher participants prior to the summer session.

### Academic Year Activities

During the academic year 1973-74, UPSTEP students will work for one semester in a student teaching capacity with a teacher member of their team. Throughout the year, UPSTEP students, graduate assistants, and staff will be available to participating teachers for certain kinds of supportive assistance.

### Science Education Center, University of Iowa

The Science Education Center at the University of Iowa sponsors several institutes, curriculum studies, and other special projects. It is a place of constant activity and research in science education. For many years the Science Education Staff has sought to improve the quality of science teaching at all academic levels.

### Program Dates for Teacher Participants

Application Deadline: March 1, 1973  
 Notification of Acceptance: March 15, 1973  
 Summer Session: June 18, 1973 -  
 July 27, 1973

Academic Credit: Teacher participants will be awarded seven credits in science education for summer program activity.

### Stipend

A subsistence allowance of \$60 per week will be paid to participants, and there will be no enrollment or course fees.

### Application Procedure

Teacher applicants must complete an application form. (Participation in previous NSF institutes will not disqualify candidates.) The most important part of the application will be a proposal by the teacher citing a specific problem in his own teaching area which he would like to resolve in cooperation with the UPSTEP team. Tentative approaches to the solution of the problem should be included in the submitted proposal.

Initial definition of the problem is the responsibility of the teacher applicant. The possibilities listed below are intended merely as suggestions and should not limit the thoughts of teacher applicants.

1. Modification of present curriculum to an individualized mode.
2. Modification of present curriculum for "reluctant" learners.
3. Development of more appropriate lab activities, games, etc.
4. Development of activities for poor readers.
5. Development of individualized course supplements.
6. Development of computer supplements.
7. Development of remedial materials for students with specific weaknesses.

Requests for application materials should be forward to:

Dr. Robert E. Yager  
 Director, Iowa-UPSTEP  
 Science Education Center  
 The University of Iowa  
 Iowa City, Iowa 52242

Telephone: 319 - 353-3600

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