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Annual Report - Year 2

ONR Domestic Research Grant N00014-96-1-0576

The Maury Project

Grantee
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Long-Term Goals

The Maury Project is an oceanography-based graduate-level precollege teacher enhancement program, designed to promote the scientific literacy of young people by improving the background of pre-college teachers on the physical foundations of oceanography.

Objectives

This project is designed to meet the following objectives:

(a) Master teachers will be trained to be peer trainers and resource persons on the physical foundations of selected oceanographic issues.
(b) Self-contained teacher-enhancement instructional modules will be developed, designed for use by the peer trainers in 1- to 2-hour training sessions.
(c) The peer trainers will arrange and conduct training sessions for other teachers, with support of the AMS.

SERVING THE ATMOSPHERIC AND RELATED OCEANIC AND HYDROLOGIC SCIENCES SINCE 1919
(d) A national network of oceanography peer trainers and resource persons will be developed.
(e) A variety of instructional resource materials on the physical foundations of oceanography and related topics will be prepared and disseminated.

Approach

There are three major components to this program: summer workshops for master precollege teachers, the production of teacher enhancement instructional resource materials, and the peer-training of teachers. The intent is to provide a core group of teachers with the knowledge and instructional resources enabling them, in turn, to peer-train a large number of their peer teachers on selected topics potentially appropriate for pre-college classrooms.

Tasks Completed

In Summer 1997, a two-week workshop for pre-college teachers on the physical foundations of selected oceanographic topics was held at the United States Naval Academy in Annapolis, MD. An additional week of training was conducted for teachers who had participated in the two-week workshop in one of the previous two summers. Two new self-contained teacher-training modules entitled Shallow-Water Ocean Waves and Ocean Sound were completed for use by the peer trainers who attended the Summer 1997 workshops. An additional instructional resource activity entitled Ocean Waves on the Web was developed and published.

Results

With the training of 23 new participants in the Summer 1997 Maury Project workshop, a total of 95 teachers representing all 50 states, the District of Columbia, Puerto Rico, Canada, Great Britain, Australia, and US Department of Defense Overseas School System have become peer trainers. During 1997, 19 previous peer trainers received an additional week of training on new topics, the two new teacher-training guides, and the internet activity.

Impact

All Summer 1997 participants, including the returnees, are committed to offer a minimum of two training sessions for pre-college teachers in their home states and regions during the 1997-98 school year. These peer trainers will utilize support materials supplied by the project, including 4,000 printed copies of each of the new teacher-training guides. To see the multiplicative effect of this program, consider that during the past year, approximately 200 workshops were conducted by peer trainers across the country, reaching over 3,000 teachers, each of whom reaches about 100 students daily.

Transitions

Originally funded by the NSF for 3 summers starting in 1994, the existing Maury Project Summer Workshops at the Naval Academy have received additional NOAA, Navy, and AMS support which assures their offering through Summer 1998.
Publications and Presentations

Over 20 publications or conference presentations were made by Maury Project peer trainers at the 1997 Annual Meeting of the AMS, the 2nd International Conference on Geosciences Education, and 1996-97 National Science Teachers Association Conferences. These and additional publications or presentations made by the Maury Project staff include:

PAPERS PRESENTED AT NATIONAL CONFERENCES

Annual Meeting of the American Meteorological Society


1997 NSTA Meetings


2nd International Conference on Geosciences Education


PUBLICATIONS:


Number of Grad Students Supported More than Half Time - None

Patents - None

Service on Outside Committees - None

Honors - None

Percentage of ONR Funds Sent on to Other Organizations - None
The Maury Project: Exploring the Physical Foundations of Oceanography

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Approved for Public Release

Twenty-three master precollege teachers attended a two-week workshop at the U.S. Naval Academy in July 1997 in preparation to become Maury Project Peer Trainers. They were supplied with Project instructional resource materials which they will use to train other teachers during the 1997-98 school year.

Precollege Teacher Training
1 October 1997

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(3 copies)
(1 copy)
(2 copies)

Please find enclosed copy(ies) of the Year 2 Annual Report for our ONR Domestic Research Grant N00014-96-1-0576.

Sincerely,

Ira W. Geer
Principal Investigator