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112th Annual Meeting

THE OHIO ACADEMY OF SCIENCE

Hosted by
THE UNIVERSITY OF FINDLAY
Findlay, Ohio

April 4-6, 2003

Meeting Theme:
Bioterrorism
and Emerging Health Threats

Future Annual Meetings

The Ohio Academy of Science is seeking institutional hosts for Annual Meetings in 2004 and beyond.

The first weekend in April is the preferred date.

Contact the Academy for a set of guidelines for hosting the Annual Meeting.

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Address Service Requested
A Resolution
by the Ohio Academy of Science

Research Experience Required
for Education of
Secondary School Science Teachers

WHEREAS, the improvement of science education and the enhancement of society's understanding and appreciation of science in order to create a more informed citizenry are responsibilities of The Ohio Academy of Science (OAS); and

WHEREAS, scientific knowledge is gained through a deductive and intuitive method of investigation based on continuous experimentation, observation, and measurement inspiring evolving explanations of natural phenomena, among educators and those they influence; and

WHEREAS, the ability to accurately teach science and the nature of scientific knowledge is obtained not only by being aware of the nature of science, but by gaining further awareness of research fundamentals through experience; and

WHEREAS, many science educators in Ohio's secondary schools do not have research experience, and therefore may not be able to adequately teach students about the fundamentals of science and of the scientific process; and

WHEREAS, we expect music teachers to have firsthand knowledge of those instruments they teach and coaches to have playing experience in their respective sports; and

WHEREAS, while classroom based study and inquiry may provide a familiarization with the basic instruments of scientific endeavor, meaningful scientific research experiences that foster a greater appreciation and understanding of principles through hands-on experience can be found throughout society in the form of corporate and governmental studies and investigations; and

WHEREAS, to the Academy, a research experience means a continuous, multi-week immersion into the given field. This may take the form of an internship or employment in an academic, governmental or industrial environment dedicated to research. This may include laboratory, product development, manufacturing, or supervised field work where the primary objective is to acquire new information or knowledge so as to test a hypothesis and/or solve a business, governmental, or industrial problem or need.

THEREFORE, BE IT RESOLVED, that the Academy asserts that in order to improve science education, secondary school science educators need to have meaningful research experiences in order to more completely and accurately teach students about the nature and practice of science. To this end the public will be better prepared to understand science and scientific issues in a society where science is increasingly playing larger roles in our daily lives; and

BE IT FURTHER RESOLVED THAT, the OAS believes certification requirements for science educators should be revised to require meaningful research experiences, and that colleges and universities should require students pursuing degrees in science education to obtain this research experience for the completion of their degree program.

Initiated by the Student Advisory Council. Approved on February 28, 2000 by the Executive Committee of The Ohio Academy of Science. C:\My Documents\Word\Governance\TEACHERRESEARCHRESOLUTION-Feb3,2000FinalDraft.doc
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2003
The University of Findlay – Findlay
April 4-5-6

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