

First Annual
Tappan Zee High School

Science Symposium

Authentic Research
Presented by Young Scientists

May 28, 1997
Orangeburg, New York

Schedule

- 7:00 Welcome
Lynn Trager, Principal
- 7:05 Introduction
Michael Francesco
- 7:10 Keynote Address
“The Role of Serendipity in Science Research
and the Discovery of the Black Sea Deluge”
Dr. William B.F. Ryan
Lamont-Doherty Earth Observatory
Columbia University

Student Presentations

- 7:30 Azhar Abdul-Quader, TZHS senior
- 7:45 Jason Lowenstein, TZHS sophomore
- 8:00 Poster Session/ Refreshments
- 8:30 Christina Adaniel, TZHS sophomore
- 8:45 Stephen Dippel, TZHS sophomore
- 9:00 Manoj Rajegowda, TZHS junior
- 9:20 Certificates of Participation:
Dr. Sandra Kolk, Assistant Superintendent
- 9:30 Concluding Remarks:
Dr. Morton Sherman, Superintendent

**THE SCIENCE RESEARCH PROGRAM:
AN OVERVIEW**

by Dr. Robert Pavlika

This program affords students the opportunity to participate in the community of scientific research and scholarship as part of their high school experience. It furthers excellence in performance and achievement, while drawing from and developing scientific capabilities in a broad spectrum of the student body. The student receives one Regents credit in science for each year in the course. Students taking the course accomplish the following:

—Students choose and explore a topic of interest. It may come from mathematics, physical science, life science, social science, or psychology.

—Students develop skills in using the Internet's electronic mail capabilities and conduct on-line bibliographic searches of international databases.

—Students find and study several journal articles, eventually choosing one that they will present to the class. Their presentation to the class emphasizes how research described in the article was conducted. Thus, it makes the scientific method, which is the essence of the course, explicit for the student and the class. The elements of this method always include the following:

A review of literature

A statement of the hypothesis or the problem

Methodology

A presentation and analysis of results

Conclusions

Bibliographic work and footnotes

—Students prepare a statement of what they intend to study based on their bibliographic research.

