

# AAAS General and Sectional Symposia

## General Symposia

### Michael Faraday—Natural Philosopher

26 December

The date of 25 August 1967 marked the 100th anniversary of the death of Michael Faraday. Despite his lack of formal education, this amazing man made many significant contributions to the intellectual history of mankind in the 19th century. This symposium regards him from the vantage points of different professions today: a historian of science, a physical chemist, a theoretical physicist, engineer, and a teacher of physics.

The symposium was arranged by Raymond J. Seeger (National Science Foundation).

William W. Havens, Jr. (Columbia University), *Chairman*.

L. Pearce Williams (Cornell University), *The Philosophical Basis of Faraday's Science*.

Ralph E. Gibson (Applied Physics Laboratory, Johns Hopkins University), *Faraday—The First Physical Chemist*.

Richard M. Bozorth (U.S. Naval Ordnance Laboratory), *Faraday's Experiments in Magnetic Induction and Magnetic Materials*.

Nathaniel Frank (Massachusetts Institute of Technology), *Faraday and the Field Concepts of Physics*.

Ernest Weber (Polytechnic Institute of Brooklyn), *Faraday and the Birth of the Electrical Age*.

Raymond J. Seeger, *Michael Faraday—Teacher*

29 December

In addition, the symposium will include a lecture demonstration utilizing some of the original Faraday equipment, by Ronald King (Royal Institution of London). It was at the Institution Faraday devoted his life to understanding physical phenomena. Faraday materials are being arranged for

a public exhibition at Rockefeller University. Raymond J. Seeger is chairman of this session.

### Is Defense Against Ballistic Missiles Possible?

26 December

Discussions will be held on the nature and potential effectiveness of currently proposed antiballistic missile systems.

Leonard S. Rodberg (University of Maryland) is the arranger and Richard L. Garwin (Columbia University) is the moderator.

Panel Members: Hans A. Bethe (Cornell University), Jack Ruina (Massachusetts Institute of Technology), Daniel Fink (Department of Defense), and Freeman Dyson (Princeton University).

### The Impact of Ballistic Missile Defense

27 December

The desirability of a defense against ballistic missiles will be discussed. Its impact on strategic stability and the nuclear arms race, upon U.S. foreign relations and upon future world security will be analyzed. Marvin Kalkstein (State University of New York, Stony Brook) will be moderator.

Panel Members: Philip M. Farley (Department of State), Donald G. Brennan (Hudson Institute), George Rathjens (Institute for Defense Analyses), and Adam Yarmolinsky (Harvard Law School).

### Do Life Processes Transcend Physics and Chemistry?

30 December

This symposium will be an informal discussion, chaired by Gerald Holton (Harvard University). Discussants: Michael Polanyi (Oxford University), John R. Platt (University of Michi-

gan), Ernest Nagel (Columbia University), and Barry Commoner (Washington University).

## Sectional Symposia

### Public Authority and Public Initiative in the Delivery of Personal Health Services (Section N, Medical Sciences)

30 December

Public funds now underwrite the public undertaking that needed medical care shall not be denied any person because he, individually, cannot pay the costs. The "consumers, arrangers, providers, and payers" in each community must now seek the rational organization of health services necessary to make optimum care available and accessible to all.

This panel discussion was arranged and will be chaired by Gerard Piel (Publisher, *Scientific American*).

Panel Members: Lester Breslow (California Department of Public Health), Lewis Thomas (New York University School of Medicine), and Kerr White (Johns Hopkins University).

### Measuring Group Achievement in Education (Section Q, Education)

27 December

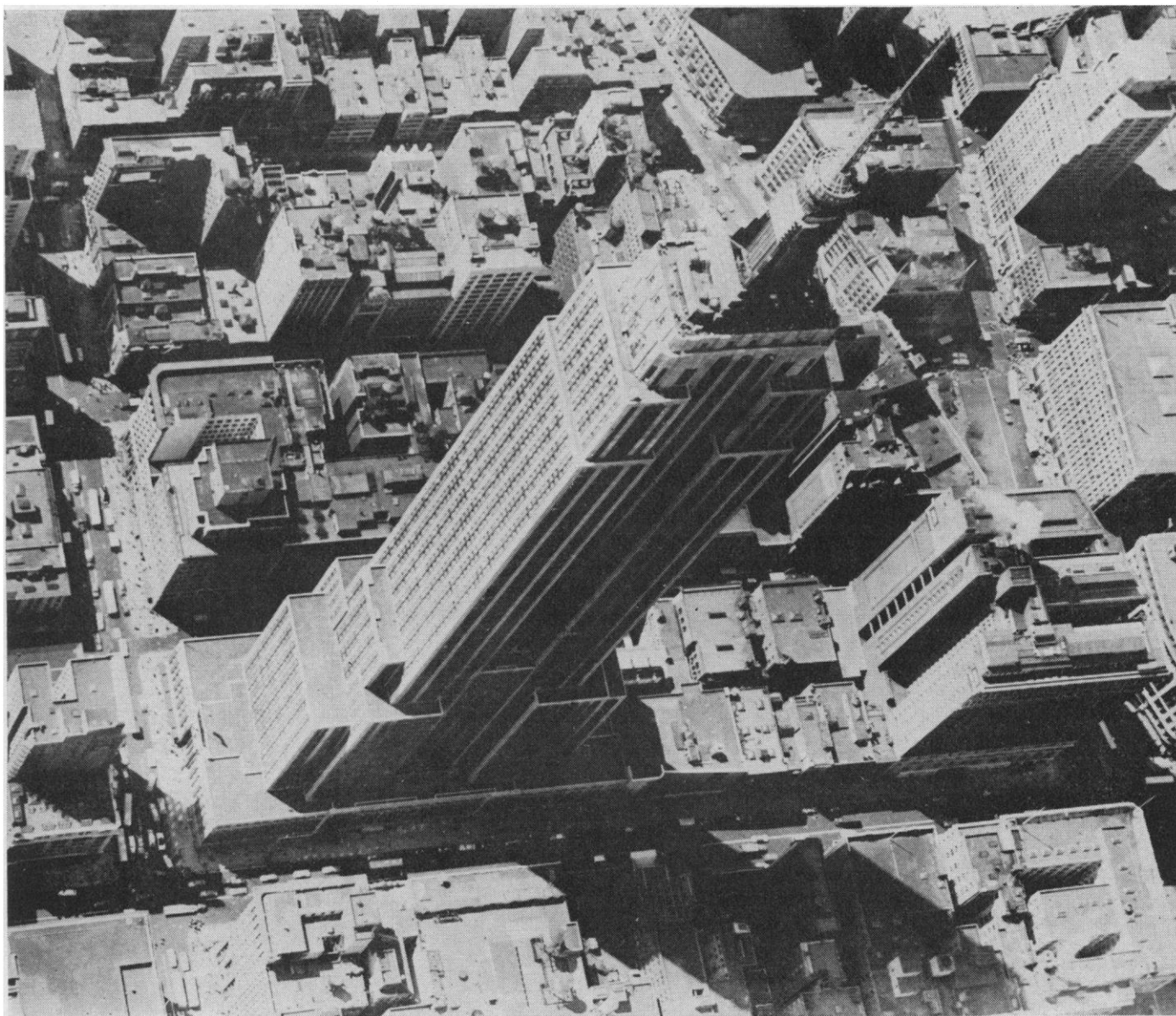
Achievement tests are developed to obtain reliable differences in levels of achievement of individuals. Summaries of scores for individuals from these tests have been, and will likely continue to be, one approach to measuring group achievement in education.

In recent years there has been recognition of the need to broaden our approach to group measurement. Three notable projects aimed at developing new procedures for measuring group achievement, one nationwide and two statewide, will be discussed.

This symposium was arranged by Jack Merwin (Exploratory Committee on Assessing the Progress of Education, Minneapolis). Lloyd N. Morrisett (Carnegie Corporation, New York City) will be chairman.

Ralph W. Tyler (Exploratory Committee on Assessing the Progress of Education), *National Assessment*.

Jefferson Eastman (Worldwide Education and Research Institute, Salt Lake City), *Indicators of Educational Performance*.



Empire State Building, New York City. [Ray Josephs Public Relations, Ltd.]

Paul Campbell (Pennsylvania Department of Public Instruction), *A Plan for Assessing Educational Quality in the Commonwealth of Pennsylvania*.

Lloyd N. Morrisett and J. Myron Atkin (University of Illinois), *Reaction*.

**Role of Museums in Modern Communications (Section T, Information and Communications)**

**27 December**

Museums are moving into an era of diversification and automation. Their role in the nation and the community is changing rapidly as they attempt to serve many kinds of people in many new ways. Long a reservoir of priceless materials, their storehouse is now

being shared in new and interesting ways with both laymen and scientists. Museums are gradually assuming a more dynamic role in the structure of higher education. Their importance as an adjunct to elementary education is increasing as they develop new ways to reach a larger percentage of the school children of the nation. In order to efficiently catalog, store, and distribute the vast quantities of new materials that reach them daily, museums are employing the computer. This symposium will attempt to describe the changes that are taking place in the country's major museums and the hoped-for effects that these changes will have on public usage, education, and scientific advances.

The symposium was arranged by Ileen H. Steward (National Institutes of Health).

Sidney R. Galler (Smithsonian Institution) is chairman and will present introductory remarks.

James A. Oliver (American Museum of Natural History), *How Museum Talk to the Public*.

H. Radclyffe Roberts (Academy of Natural Sciences of Philadelphia), *Museums and the Scientists*.

Herbert Friedman (Los Angeles County Museum), *The Educational Role of Museums*.

Donald F. Squires (U.S. National Museum), *The Computer Comes to the Aid of Museums*.