

here being brought to judgment is the propriety of such articles in a volume designed to serve as a central source of guidance to students of cell biology.

The same lack of direction that runs through the treatment of many subjects is apparent in the choice of topics. Kidder's article on nutritional requirements of *Tetrahymena* would better serve science by appearing elsewhere. Rothschild's brief account of spermatozoan behavior in the neighborhood of eggs certainly adds to the table of contents, but somewhere the editors ought to have drawn a line between what belongs in a current journal and what deserves the status of a review. A striking example is the selection of "The Histochemistry of Esterases" (Gomori) as a topic for review when the fundamental issues of histochemistry, which currently beg for discussion, are neglected. There is hardly a serious student of biology who would not eagerly search for some critical account of this whole field. If the editors are not aware, then they should be,

of the multitude of errors that have crept into the literature and that have been uncritically used by many cell biologists. In the face of this, one cannot help wondering with what degree of attention and perspective the editors undertook the important—and admittedly difficult—task of editing a review volume on cell biology.

Happily, the volume contains a number of good reviews. Bell has written a fine account of the application of freezing and drying techniques in cytology. Hershey's review of the reproduction of bacteriophage is beautifully written, and Fankhauser has provided an excellent discussion of nucleo-cytoplasmic relations in amphibian development. Yet the book as a whole is disappointing, and unless future volumes are vastly improved, the series will never serve the purpose for which it was launched.

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Association Affairs

AAAS Symposia at the St. Louis Meeting

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CHARACTERISTICALLY, AAAS symposia explore relatively neglected areas of scientific inquiry, constitute up-to-date surveys of knowledge in particular fields, or are concerned with the interrelations of science and human welfare. Such programs are significant and valuable because they focus attention upon critical areas, summarize the present status of current research, and provide viewpoints from which to direct further research. In general, these programs originate in the minds of the officers of the eighteen sections and subsections of the AAAS and are developed by them or by others whom they deputize as program chairmen. Often the sectional symposia are concerned with interdisciplinary problems and are sponsored by two or more sections; participating societies also may collaborate. If the potential demand warrants it, the papers are gathered together and published by the Association as symposium volumes.

In recent years the practice has become well established of arranging several symposia of especially wide interest or timeliness for each annual meeting. The responsibility for developing these general symposia, sponsored by the Association as a whole, rests upon a Symposium Committee, appointed each year by the president of the Association. Upon occasion, a proposed sectional program may be chosen to be developed as a general symposium; more commonly, the Symposium Committee, which represents a variety of scientific fields itself, plans and arranges these general sessions. The committee may invoke the aid of con-

sultants and appoint others to implement the general symposia.

The 1952 Symposium Committee consists of Detlev W. Bronk, president of The Johns Hopkins University and of the AAAS (*chairman*); William A. Albrecht, chairman, Department of Soils, University of Missouri; Edgar Anderson, Engelmann professor of botany, Washington University, and assistant director, Missouri Botanical Garden; Arthur H. Compton, chancellor, Washington University; Edward A. Doisy, Sr., director, Department of Biochemistry, Saint Louis University School of Medicine; Charles Allen Thomas, president, Monsanto Chemical Company, and general chairman of the St. Louis Meeting; Carl Tolman, dean, Graduate School of Arts and Sciences, and chairman, Department of Geology, Washington University; John W. Tukey, Department of Mathematics, Princeton University; Clyde E. Williams, director, Battelle Memorial Institute; Conway Zirkle, Department of Botany, University of Pennsylvania; and Raymond L. Taylor (*secretary*).

Of the general symposia at this year's meeting, "Disaster Recovery" was originally proposed by the AAAS Section M Committee; "The Nation's Nutrition" was suggested by Edward A. Doisy, Sr.; and "Applications of the Theory of Games" was conceived and organized by John W. Tukey.

General Symposia

I. Disaster Recovery. Saturday morning and afternoon, Dec. 27. Arranged by Howard A. Meyerhoff.

Part 1. The Nature of Disasters

Lloyd V. Berkner, president, Associated Universities, Inc., *Presiding*

1. The Common Aspects of Disasters. Lloyd V. Berkner.
2. Natural Disasters. James B. Macelwane, dean, Institute of Technology, Saint Louis University.
3. Industrial Disasters. G. M. Kintz, chief, Accident Prevention and Health Division, Region VI, U. S. Bureau of Mines, Dallas.
4. Mine Fires and Explosions. James Westfield, chief, Health and Safety Division, U. S. Bureau of Mines, Washington, D. C.
5. Psychological and Sociological Factors in Disasters. Donald G. Marquis, chairman, Department of Psychology, University of Michigan.

Part 2. Disaster Recovery

Ernest E. Howard, consulting engineer, New York, and Kansas City, Mo., *Presiding*

1. Emergency Measures—the Human Element. Robert C. Edson, assistant national director, Disaster Services in Charge of Rehabilitation, American National Red Cross, Washington, D. C.
2. Emergency Repair of Public Works and Public Utilities. Kenneth M. Kent, Civil Engineer Corps Officers' School, Bureau of Yards and Docks, Department of the Navy.
3. Restoration of Communications. Rudy Eklund, general plant manager, Southwestern Bell Telephone Co., Topeka, Kan.
4. Re-establishment of Transportation. R. P. Hart, chief operating officer, Missouri Pacific Railroad, St. Louis, Mo.
5. Restoration of Community Functions. Frank P. Zeidler, mayor, City of Milwaukee.
6. The Basic Elements in Disaster Recovery. Ernest E. Howard.

II. Applications of the Theory of Games. Monday morning, Dec. 29. Arranged by John W. Tukey.

A. W. Tucker, Princeton University, *Presiding*

1. General Introduction. John von Neumann, Institute for Advanced Study, Princeton, N. J.
2. Conflicts with Imprecise Payoffs. John D. Williams, chief, Division of Mathematics, Rand Corporation, Santa Monica, Calif.
3. Business and Industry. John McDonald, Board of Editors, *Fortune* Magazine, New York

III. The Nation's Nutrition: From Soil to Cytoplasm.

Tuesday morning and afternoon, Dec. 30. Arranged by Howard B. Lewis, professor and head, Department of Biological Chemistry, University of Michigan Medical School.

Part 1. Sources of Food.

Howard B. Lewis, *Presiding*

1. Soils and their Relation to Food Production. Lloyd M. Turk, professor and head, Department of Soil Science, Michigan State College.
2. Foods of Plant Origin. George R. Cowgill, professor of nutrition, Department of Physiology, Yale University.
3. The Production of Foods of Animal Origin. Roy C. Newton, vice president in charge of research, Swift & Company.

4. The Deterioration of Food and Foodstuffs. E. C. Stakman, professor and chief, Division of Plant Pathology and Botany, University of Minnesota.

Part 2. Assimilation of Food.

Edward A. Doisy, Sr., *Presiding*

1. General Biochemistry and Health Relationships of Nutrition. C. Glen King, professor of chemistry, Columbia University, and scientific director, Nutrition Foundation, Inc.
2. Protein Requirements of the Diet. James B. Allison, professor of physiology and biochemistry, and director of the Bureau of Biological Research, Rutgers University.
3. Fats and Carbohydrates in the Diet. Harry J. Deuel, Jr., professor of biochemistry and dean, Graduate School, University of Southern California.
4. Vitamins and Minerals. Conrad A. Elvehjem, professor and chairman, Department of Biochemistry, and dean, Graduate School, University of Wisconsin.

Sectional and Society Symposia

B—Physics

Nuclear Science in Industry; arranged by Ralph T. Overman.

Research Applications of Carbon 14; arranged by Ralph T. Overman.

Magnetic Resonance and its Applications; arranged by Arthur L. Hughes.

Tornadoes and Tornado Forecasting; arranged by Edward M. Brooks.

C—Chemistry

The New Synthetic Fibers (two sessions); arranged by Frank J. Soddy.

Contributions of Chemistry in the Field of Human and Animal Nutrition (two sessions); arranged by Barrett L. Scallet.

Contributions of Chemistry to Medicine; arranged by Kenneth N. Campbell.

Chemistry and Dentistry Team Up for Progress (two sessions); arranged by Frances Krasnow.

Contributions of Chemistry to the Cancer Problem; arranged by Kenneth N. Campbell.

Liquid Fuel Supplies of the Future and the Impact on the Chemical Industry of Chemicals Available as Co-products from Synthetic Fuel Processes (two sessions); arranged by L. L. Hirst.

Contributions of Chemistry to Agriculture (two sessions); arranged by Lloyd V. Sherwood.

E—Geology and Geography

Modern Research of State Geological Surveys and its Economic Values (two sessions); arranged by M. M. Leighton.

F—Zoological Sciences

The six following programs were all arranged by R. E. Blackwelder

Public Book Discussion Panel: *Time's Arrow and Evolution*.

Public Book Discussion Panel: *The Meaning of Evolution*.

Life History Studies in Relation to Systematics.

Anecdotal Sketches of Famous Zoologists.

- Public Book Discussion Panel: *Three College Biology Texts*.
- Public Book Discussion Panel: *Three College Zoology Texts*.
- G—Botanical Sciences**
 Improvement in the Teaching of Taxonomy; arranged by Aaron J. Sharp.
 Biosystematics and Taxonomic Units; arranged by Edgar Anderson.
 Nitrogen Metabolism in the Green Plant (two sessions); arranged by Barry Commoner.
 The Western Range—Our Great Natural Resource; arranged by F. W. Albertson and David F. Costello.
 Plant Sociology and the Taxonomy of Vegetational Units (two sessions); arranged by Stanley A. Cain.
- H—Anthropology**
 The Plains and the Rio Grande Pueblos; arranged by James B. Watson.
- I—Psychology**
 Men and Machines (two sessions); arranged by Philip H. DuBois.
 Problems in Psychotherapy; arranged by Robert I. Watson.
- K—Social and Economic Sciences**
 Social and Economic Aspects of Technical Assistance Programs (three sessions); arranged by Conrad Tauber and Gordon Macgregor.
 Information Processing in Social and Industrial Research; arranged by Amos E. Taylor.
 Regional Research: Emerging Concepts and Techniques; arranged by Walter Isard.
 The Individual Scientist in Today's World; arranged by Franklin Miller, Jr.
- L—History and Philosophy of Science**
 Relations between Science and Thomistic Philosophy; arranged by Raymond J. Seeger.
 Methodology of Engineering Research; arranged by Raymond J. Seeger.
 Leonardo da Vinci; arranged by Raymond J. Seeger.
 Philosophical Problems of Contemporary Biology; arranged by Henry Margenau.
 Confirmation of Scientific Theories; arranged by Henry Margenau.
- M—Engineering**
 Hearing and Speech Aids; arranged by Eugene F. Murphy.
- N—Medical Sciences**
 Survival of Frozen Tissues, Normal and Tumors (two sessions); arranged by B. J. Luyet.
- Nm—Medicine**
 Fluid and Saline Therapy; arranged by Carl A. Moyer.
 Chemotherapy of Tuberculosis; arranged by Alfred Goldman.
 The Social Sciences and Humanities in Medical Education; arranged by Hugh E. Setterfield.
- Industrial Hygiene: An Applied Science**; arranged by Elmer P. Wheeler.
- Health Hazards and Health Protection** (three sessions); arranged by Gordon K. Moe.
- Nd—Dentistry**
 The Chemistry of Saliva; arranged by F. J. McClure and Isadore Zipkin.
 Scientific Contributions to the Manufacture of Restorative Dental Materials; arranged by Floyd A. Peyton.
 Engineering and Chemical Factors of Water Fluoridation; arranged by A. P. Black.
- Np—Pharmacy**
 Programs arranged by George F. Archambault
 The Accreditation of Hospital Pharmacies and the Approval of Pharmacy Interne and Residency Programs.
 Content of Hospital Pharmacy Courses in Schools of Pharmacy.
 The Role of the USP, the NF, the NNR, and the ADR in Developing and Maintaining Sound Drug Therapy Trends and Standards.
- Medical Societies**
 Problems in Forensic Sciences (two sessions); arranged by Ralph F. Turner and R. B. H. Gradwohl.
 Science and Medical Care; arranged by E. M. Bluestone.
 Education in Physiological Science (two sessions); arranged by Maurice B. Visscher, H. Burr Steinbach, and Orr Reynolds.
- O—Agriculture**
 Combined Resource Development with Special Reference to the Missouri Valley (four sessions); arranged by Charles E. Kellogg.
- P—Industrial Science**
 Industrial Microbiology (two sessions); arranged by J. E. McClary.
 Effective Utilization of Industrial Manpower (two sessions); arranged by Allen T. Bonnell.
- Q—Education**
 A Report of Research on the New York State Regents Examinations in Science; arranged by George G. Mallinson.
 Yale Report on Attacks on Education; arranged by C. W. Scott.
 Identification of Talented Youth in Science and Mathematics; arranged by Morris Meister.
- X—Science in General**
 Conference on Scientific Editorial Problems; arranged by Marian Fineman.
 Conference on Scientific Manpower II (three sessions); arranged by Ralph M. Hogan.
 Science in the News Columns; arranged by Volta Torrey.

