

Announcing a new series

# ADVANCES IN GEOPHYSICS

Edited by H. E. Landsberg

*Geophysics Research Directorate,  
Air Force Cambridge Research Center*

**VOLUME I, December 1952, xii, 362 pages,  
illustrated, approx. \$8.50**

**R**APIDLY accumulating new knowledge in the geophysical sciences has prompted the organization of this series. *Advances in Geophysics* will consist of monographic treatises that summarize, from time to time, progress made in recent years. Evaluation of geophysical data is a special feature in the first volume. Recent progress in some of the most active fields is reviewed and the way is pointed to new phases which need to be investigated. Subsequent volumes of the series will deal with investigations in hydrology, seismology, volcanology, and tectonophysics.

Primarily, the volumes are designed to serve geophysicists and meteorologists who desire to keep abreast of research results on all topics and who wish to familiarize themselves with specialized aspects in the various subfields.

## CONTENTS:

### Automatic Processing of Geophysical Data

By JOHN C. BELLAMY, Cook Research Laboratories, Chicago, Illinois

### Some New Statistical Techniques in Geophysics

By ARNOLD COURT, University of California, Berkeley

### Studies of the General Circulation of the Atmosphere

By BERT BOLIN, University of Stockholm, Sweden

### Exploration of the Upper Atmosphere by Meteoritic Techniques

By FRED L. WHIPPLE, Harvard University, Cambridge, Massachusetts

### Unsolved Problems in Physics of the High Atmosphere

By N. C. GERSON, Geophysics Research Directorate, Air Force Cambridge Research Center, Cambridge, Massachusetts

### Estuarine Hydrography

By D. W. PRITCHARD, Johns Hopkins University, Baltimore, Maryland

### The Earth's Gravitational Field and Its Exploitation

By GEORGE PRIOR WOOLLARD, University of Wisconsin, Madison

### Aeromagnetic Surveying

By JAMES R. BALSLEY, U. S. Department of the Interior, Washington, D. C.

### Author Index—Subject Index.

**ACADEMIC PRESS Inc., Publishers**

125 East 23 Street, New York 10, N. Y.

# Calendar of events

## December

- 7-10 American Institute of Chemical Engineers (Annual Meeting), Cleveland, Ohio
- 10-12 Computers Conference, Institute of Radio Engineers and American Institute of Electrical Engineers, Park Sheraton Hotel, New York City
- 11 American Institute of Electrical Engineers Symposium (W. E. Kock, "The Physics of Music and Hearing"), Engineering Societies Building, New York City
- 17 16th Wright Brothers Lecture, Institute of the Aeronautical Sciences, U. S. Chamber of Commerce Building Auditorium, Washington, D. C.
- 18-20 International Conference on High Energy Nuclear Physics (Sponsored by the National Science Foundation and the University of Rochester), Rochester, New York
- 26-27 APS Division of Fluid Dynamics, Inyokern, California
- 26-30 American Physical Society (Pacific Section), Inyokern and Pasadena, California
- 26-31 American Association for the Advancement of Science (119th Annual Meeting), St. Louis, Missouri
- 27-28 American Chemical Society (18th Annual Chemical Engineering Symposium), Evanston, Illinois
- 27-29 American Mathematical Society (59th Annual Meeting), St. Louis, Missouri
- 30 Mathematical Association of America (36th Annual Meeting), Washington University, St. Louis, Missouri
- 30-31 American Meteorological Society (in conjunction with the AAAS Annual Meeting), St. Louis, Missouri

## January

- 6 Society for Applied Spectroscopy (F. Hochgesang, "Computation of Analytical Results"), Socony-Vacuum Training Center, New York City
- 9 Akron Polymer Lecture Group (H. F. Mark, "Graft Polymerization"), Akron University, Akron, Ohio
- 12-16 Society of Automotive Engineers (Annual Meeting and Engineering Display), The Sheraton-Cadillac, Detroit, Michigan
- 14-16 3rd Conference on High-Frequency Measurements (Sponsored by American Institute of Electrical Engineers, Institute of Radio Engineers, and National Bureau of Standards), Washington, D. C.
- 15 American Institute of Electrical Engineers Symposium (F. H. Slaymaker, "Performance Criteria of Loudspeakers"), Engineering Societies Building, New York City
- 19-22 Plant Maintenance Conference, Public Auditorium, Cleveland, Ohio
- 21-23 Society of Plastics Engineers, Inc. (9th Annual Technical Conference), Hotel Statler, Boston, Massachusetts
- 22-24 APS Division of Fluid Dynamics, Cambridge, Massachusetts
- 22-24 American Physical Society (Annual Meeting), Cambridge, Massachusetts
- 22-24 American Association of Physics Teachers, Cambridge, Massachusetts
- 26-29 American Meteorological Society (120th National Meeting), Roosevelt Hotel, New York City
- 26-29 American Society of Heating and Ventilating Engineers (59th Annual Meeting), Conrad Hilton Hotel, Chicago, Illinois

## February

- 3 Society for Applied Spectroscopy (Contributed Papers), Socony-Vacuum Training Center, New York City
- 4-6 Western Computers Conference, Institute of Radio Engineers and American Institute of Electrical Engineers, Hotel Statler, Los Angeles, California
- 5-7 Institute of Radio Engineers Conference and Electronics Show (5th Annual Southwestern Conference and Show), San Antonio, Texas
- 6 Akron Polymer Lecture Group (H. L. Gerhart, "Polyester Resins"), Akron University, Akron, Ohio

- 16-19 American Institute of Mining and Metallurgical Engineers (Annual Meeting), Los Angeles, California  
 16-21 Pakistan Science Conference (5th Annual Meeting), Lahore, Pakistan  
 20 American Institute of Electrical Engineers Symposium (C. J. LeBel, "Some Notes on Modern Techniques of Recording and Reproducing"), Engineering Societies Building, New York City

### March

- 2-6 Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, Analytical Chemistry Group of Pittsburgh Section of American Chemical Society and Spectroscopy Society of Pittsburgh, William Penn Hotel, Pittsburgh, Pennsylvania  
 2-6 American Society of Civil Engineers, San Francisco, California  
 6 Akron Polymer Lecture Group (J. Rehner, Jr., "Butyl Rubber: Polymerization, Properties and Applications"), Akron University, Akron, Ohio  
 8-11 American Institute of Chemical Engineers, Buena Vista Hotel, Biloxi, Mississippi  
 10 Society for Applied Spectroscopy (S. Silverman, "Temperature Measurement by Spectroscopic Means"), Socony-Vacuum Training Center, New York City  
 12 American Institute of Electrical Engineers Symposium (M. S. Corrington, "The Relation Between Frequency Response and Transients in the Reproduction of Music"), Engineering Societies Building, New York City  
 15-20 American Chemical Society (123rd National Meeting), Los Angeles, California  
 16-20 National Association of Corrosion Engineers (9th Annual Conference and Exhibition), Hotel Sherman, Chicago, Illinois  
 19-21 Optical Society of America, Hotel Statler, New York City  
 26-28 American Physical Society, Joint Meeting with the APS Southeastern Section, Duke University, Durham, North Carolina

### April

- 10 Akron Polymer Lecture Group (P. W. Selwood, "Applications of Magnetochemistry to Polymers and Polymerization"), Akron University, Akron, Ohio  
 16 American Institute of Electrical Engineers Symposium (H. H. Scott, "Component Integration of Sound Systems"), Engineering Societies Building, New York City  
 17 American Association of Physics Teachers (Kentucky Section), Louisville, Kentucky  
 24-25 American Mathematical Society, Chicago, Illinois  
 24-25 American Mathematical Society, New York City  
 26-29 American Institute of Chemical Engineers, Joint Meeting with the Chemical Institute of Canada, Royal York Hotel, Toronto, Canada  
 30-2 American Physical Society, Washington, D. C.

### May

- 2 American Mathematical Society, Palo Alto, California  
 4-6 American Geophysical Union (34th Annual Meeting), Washington, D. C.  
 7-9 Acoustical Society of America, Hotel Warwick, Philadelphia, Pennsylvania  
 24-28 Scientific Apparatus Makers Association (Annual Meeting of all Sections), The Greenbrier, White Sulphur Springs, West Virginia

### June

- 1-5 4th Annual Conference on Industrial Research, Columbia University, New York City  
 16-24 International Congress on Electro-Acoustics and Symposium on the Sound Insulation of Light-Weight Structures (organized by the Netherlands Acoustical Society, under the auspices of the Commission on Acoustics of the International Union of Pure and Applied Physics), The Hague, Hilversum, Delft, and Eindhoven, Netherlands  
 18-20 American Physical Society, Rochester, New York

### July

- 5-11 Colloquium on Cosmic Rays (Commission on Cosmic Rays of the International Union of Pure and Applied Physics), Bagnères de Bigorre, France  
 19-25 7th International Congress of Radiology, Copenhagen, Denmark  
 29-7 13th International Congress of Pure and Applied Chemistry and 1st Physical Chemistry Conference, in conjunction with the 17th Conference of the International Union of Pure and Applied Chemistry, Stockholm and Uppsala, Sweden

## DIRECTOR OF RESEARCH LABORATORY

Internationally known eighty-year company  
desires a Director for its central  
research laboratory.

### POSITION REQUIRES:

- A Ph.D. in Physics or Electrical Engineering.
- A minimum of 10 years experience in research and administration.
- Thorough knowledge of the current techniques of research and development in applied physics.
- A record that can stand a rigid investigation.

### THE POSITION OFFERS:

- An opportunity to direct and administer a program that will investigate a wide and extremely challenging area of applied research.
- Co-ordination of work in affiliated European laboratories.
- Resources equal to the job required.
- Associates who are leaders in their respective fields.
- Excellent remuneration.

*All qualified applicants are assured of a personal interview.  
Please send complete resume to*

**Box 1191D, 221 W. 41 St., New York 36, N.Y.**