elected president of the Northeastern Division of the American Phytopathological Society at the division's recent meeting at the Connecticut Agricultural Experiment Station. Other officers elected were James M. Hamilton, New York State Agricultural Experiment Station at Geneva, vice president; S. G. Younkin, Campbell Soup Research Department, Riverton, N. J., secretary-treasurer; and L. M. Black, Brooklyn Botanic Garden, councilor.

Deaths

James B. Murphy, cancer specialist, died August 24 in Bar Harbor, Maine, after a brief illness. He was 66 years of age. Dr. Murphy retired as head of the Laboratory of Cancer Research of the Rockefeller Institute in July. He had been associated with the institute since 1910.

Newton L. Pierce, associate professor of astronomy at Princeton University, died August 8, after a brief illness, at the University of Pennsylvania Graduate Hospital in Philadelphia. He was 45 years old. Dr. Pierce was assistant director of the Princeton Observatory and was well known for his study of eclipsing variable stars.

George Clinton Price, 90, professor emeritus of zoology at Stanford University, died August 11, in Palo Alto, Calif., after a long illness. Dr. Price was a member of the Stanford faculty for 28 years until his retirement in 1925.

Cara Stoltenberg, professor emeritus of neurology at Stanford University, died February 2 at her home on the university campus. She was 88. Miss Stoltenberg was an active member of the faculty from 1897 until her retirement in 1930.

Charles H. Warren, 73, dean emeritus of the Sheffield Scientific School at Yale University, died August 16 in Torrington, Conn. Dr. Warren was a staff member of the Massachusetts Institute of Technology from 1900 to 1922, when he became dean of Sheffield and chairman of the Geology Department at Yale. In 1938 he became professor of mineralogy and was widely known for his writings in that field.

The Institute for Physical Medicine and Rehabilitation, 325 East 38th St., New York City, will conduct a workshop in rehabilitation September 25—October 20. Instruction will be provided by staff members of the institute, the New York University School of Education, and other specialists. The course includes medical aspects of rehabilitation, psychosocial aspects, clinical study and observation, case study and evaluation, counseling tools and techniques, vocational training, and placement tools and techniques.

The National Cancer Institute of the U. S. Public Health Service has published in booklet form The Challenge of Cancer, by Lester Grant. Mr. Grant won the 1949 AAAS-George Westinghouse Newspaper Science Writing Award for the 15 articles that form the basis of the book and that originally appeared in the New York Herald Tribune. The articles have been revised, and 4 new ones have been added by the author in collaboration with staff members of the National Cancer Institute. The book is available from the Superintendent of Documents, Government Printing Office, Washington 25, D. C., at 55 cents per copy.

A new technique for drying biological specimens selected for examination and analysis under the electron microscope has been developed at the Johnson Foundation for Medical Physics, under the direction of Thomas F. Anderson, assistant professor of biophysics, University of Pennsylvania School of Medicine. The new method makes it possible to retain the three-dimensional aspects of biological specimens without the change in structural form that occurs in the usual dehydration process. In ordinary drying the receding surface of water tends to flatten most specimens. The new technique replaces the water with a liquid that has a low surface tension at room temperature, such as carbon dioxide under high pressure, which becomes a gas when the temperature is raised. After the gas is allowed to escape the specimens stand out in bold relief.

The Philadelphia Section of the American Chemical Society is sponsoring two special noncredit evening courses to be given at the Philadelphia College of Pharmacy and Science, 43rd and Kingsessing Ave., Philadelphia. The course in bacteriology for chemists, to begin October 9, will be presented by D. J. O'Kane, assistant professor of microbiology, University of Pennsylvania. The course in advances in chemical analysis, starting October 10, will consist of ten lectures by well-known authorities. Further information concerning the courses may be obtained from Dr. R. E. Vener, Drexel Institute of Technology, Philadelphia, Pa.

The Division of Medical Sciences of the National Research Council has arranged a symposium on burns to be held in the National Academy of Sciences Building, Washington, D. C., November 2–4. Every effort has been made to include in the five sessions of this symposium subjects of most immediate significance in the vital problem of thermal injury by atomic radiation. The sessions are open to persons having a professional interest in burn research, or responsibility for medical preparedness in either military or civil defense. Advance registration is not required, but those planning to attend are urged to notify The Secretary, Division of Medical Sciences, 2101 Constitution Avenue, N.W., Washington, D. C.

The deadline for mailing entries in the Fifth AAAS-George Westinghouse Science Writing Awards is midnight, October 8, 1950. Readers of Science are urged to submit articles or to nominate entries before that date. Write or wire for information and entry blanks to Howard A. Meyerhoff, Chairman, Managing Committee, 1515 Massachusetts Ave., N.W., Washington, D. C.
New Material for Geologists, Chemists, Mathematicians, and Physicists—

MARINE GEOLOGY
By Ph. H. Kuenen, University of Groningen, The Netherlands. Summarizes present knowledge and views held on controversial matters in the field and presents a clear picture of the problems and the salient points still requiring further investigation. Geological matter is summarized with regards to submarine landforms and their interpretation, sedimentary cover of the sea floor, the structure of atolls, etc. The processes operative in present sedimentation and the evidence of conditions during accumulation that may be expected in ancient sediments are presented. This study of marine environments is given in such a way as to make more understandable the major processes at work in decomposition. October. 568 pages. 250 illus. $7.50.

CHEMICAL THERMODYNAMICS
By Frederick D. Rossini, Carnegie Institute of Technology. Presents the fundamental laws of thermodynamics, shows how valid general relations are derived from these laws, and describes the application of chemical thermodynamics to physical processes and chemical reactions. The first five chapters cover necessary background. The next 25 give a substantially complete picture of modern chemical thermodynamics, including references to recent developments. The last five chapters treat special applications, illustrative calculations, and sources of chemical thermodynamic data. August. 514 pages. Illus. $6.00.

FUNDAMENTALS of ACOUSTICS
By Lawrence E. Kinsler and Austin R. Frey, U. S. Naval Postgraduate School. Presents in clear and concise form basic facts about the generation, transmission, and reception of acoustic waves. In their selection of topics, the authors' primary aim was to familiarize the reader with the fundamental concepts and terminology of the subject and with the analytical methods for attacking acoustical problems. The analogies between acoustics and the fields of electricity and magnetism are emphasized. October. 516 pages. 170 illus. Prob. $6.00.

MATHEMATICS of RELATIVITY
By G. Y. Rainich, University of Michigan. Presents the theory of relativity in as simple a form as is consistent with the clarity of the fundamental concepts. In order to present the theory of relativity with maximum clarity, the mathematical aspect of the subject has been stressed. However, changes in fundamental concepts and the refinements of the mathematical technique are brought in only as they are needed. This system makes the presentation easier by separating the difficulties without sacrificing rigor. A book in the APPLIED MATHEMATICS SERIES, I. S. Sokolnikoff, editor. September 1950. 173 pages. $3.50.

Send for copies on approval.

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440 Fourth Avenue New York 16, N. Y.
What GENERAL ELECTRIC People Are Saying

T. R. HAND
Apparatus Department
C. J. FALK
General Engineering & Consulting Laboratory

QUALITY CONTROL: In industrial manufacturing, every production line will produce some rejects. To keep those rejects within economic limits, a technique known as scientific quality control has been developed.

Scientific quality control employs control charts which are based on mathematical probabilities. With knowledge of past production history, it is possible to predict with a known degree of risk whether present production conditions are producing too high a reject rate. The method has often resulted in reducing reject losses in a manufacturing process from 30 to 50 percent . . .

With scientific quality control, each inspector on a production line makes a mark on a tally sheet every time he rejects a unit. A separate tally sheet is provided for each test or characteristic which he is checking. At the end of a shift or at the end of the day, these tally sheets are collected from all of the inspectors and tabulated by the quality-control engineers. Each test is then individually analyzed to see whether that particular test is falling within the predetermined economic limits. If it is found that too many rejects have occurred and the upper control limit is exceeded, then the quality-control engineer informs the production supervisor that abnormal trouble is present and corrective action is indicated. In the meantime, rejects are still being produced . . .

Quality-control engineers at General Electric's Erie Works . . . realized how much more effective statistical quality control could be if the information presented by control charts was immediately available . . . The problem presented . . . was the development of a computer which would give instantaneous quality control.

The computer should count the rejects and total production on a production line and should analyze these counts immediately . . . The Quality Control Indicator is the solution to this problem . . .

At General Electric's Erie Works . . . a 60-percent reduction in rejects followed installation of the quality control indicator on a compressor assembly line. On this line, monitoring only five tests, more than $10,000 was saved the first year by reduction of scrap and rework expense. Greater efficiency also resulted, since a production supervisor could more easily direct his efforts where they were needed. Much closer quality control was achieved . . . and the customary rise in rejects during the vacation period did not occur after the quality control indicators were installed . . .

Quality-control engineers using the computer have called it the biggest step forward in scientific quality control since the beginning of quality control itself.

General Electric Review
July, 1950

W. R. G. BAKER
Vice President

COLOR TELEVISION: A new system of color television, which General Electric has submitted to the FCC, provides a method of transmitting color picture information within a frequency band no wider than that used in present-day black and white transmission and could be used with either the three-tube or the single picture tube systems advocated by other companies at the recent FCC color hearings.

This new system is called "frequency interlace." Under ordinary conditions, announcement would not be made until field tests were completed, but since the FCC is currently studying other systems, it was necessary to reveal now that the system is being tested and that these tests to date indicate technical soundness.

Among the advantages over other known systems, frequency interlace would permit relatively low-cost TV receivers, reliable in operation, easy to adjust and maintain, and simple in construction. The system is inherently compatible with present black and white standards; it would permit color broadcasts to be received in black and white on present-day receivers or black and white broadcasts to be received on color receivers incorporating the new system. It would also permit reception free of twinkle, crawl, or flicker.

Syracuse, New York
July 27, 1950

You can put your confidence in

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Presenting a symposium by great scientists on
THE AGE OF SCIENCE: 1900-1950

To the community of U. S. citizens who share a responsible concern in the advance and use of scientific knowledge, it is the privilege of the Editors of the new SCIENTIFIC AMERICAN to announce the publication of an extraordinary issue of this magazine.

Under the title of the Age of Science: 1900-1950, the September 1950 issue of SCIENTIFIC AMERICAN is entirely devoted to a symposium on the century's historic advances in scientific knowledge, written by a group of the world's foremost scientists.

In his introduction to the symposium, J. Robert Oppenheimer says:

"The 10 reports in this issue do indeed attest that science says things that no one knew before in a way we can all understand. They are reports, each written by a man eminent in his science, of what has happened in that science during the last half-century. They are diverse in style and in substance, reflecting the great diversity of the several sciences and the healthy and heartening diversity of the authors. Yet they all tell heroic stories. They all tell of a period of unparalleled advance of understanding, of new experience, new insight and new mastery. Indeed, for some of the sciences—biochemistry, physics, genetics—the half-century now closing has been a time of splendor: of great men and great discoveries, of a real revolution in our knowledge of the world. For all the sciences it has been a time of extraordinary vitality and progress, extending and enriching what we know about the world and for every question answered unearthing a host of new questions."
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For display ads, using type larger or of a different style than the uniform settings, enclosed with separate border rules, the rate is $16.00 per inch; no extra charge for "Box Numbers".

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3. Closing Date: Advertisements must be received by SCIENCE, 1515 Mass. Ave., N.W., Washington 5, D.C., together with advance remittance, positively not later than 14 days preceding date of publication (Friday of every week). X

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September 22, 1950
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AVOID CONGESTION AND DELAY
GET YOUR GENERAL PROGRAM —
BY FIRST CLASS MAIL — EARLY IN DECEMBER

Registration in advance of arrival at the 117th Annual Meeting of the AAAS in the downtown hotels of Cleveland, December 26–30, 1950, has so many advantages that we wonder why almost everyone doesn’t take this simple step. For instance:

1. You avoid congestion and delay at the Registration Desks in busy foyers at time of arrival. All indications point to a large attendance since all of the Association’s seventeen sections and subsections, and more than forty societies, will have sessions with excellent programs and there will be a number of important symposia.

2. You receive the General Program early in December in ample time, unhurriedly to decide among the events and the sessions that you wish to attend.

3. Your name and hotel address will be in the enlarged Visible Directory the first hour of the first day of the meetings, since it will be posted in Washington as soon as processed.

4. Advance Registrants will have the same privileges of receiving a map and directory of points of interest of Cleveland, literature, radio broadcast tickets, etc. At the convenience of Advance Registrants, these will be distributed from the Main Registration in the Public Auditorium—the location of the Annual Science Exposition, the Visible Directory, and the Science Theatre. Admission to the splendid series of latest scientific films will be free to all Registrants.

At the 1949 Meeting, the Council of the AAAS voted overwhelmingly to continue Advance Registration. To insure its prompt receipt, the General Program will be sent by first class mail December 1–4, 1950—which is also the closing date for Advance Registration.

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   ☐ $2.25 A.A.A.S. Member (check one) ☐ $2.25 College Student
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3. ACADEMIC, PROFESSIONAL, OR BUSINESS CONNECTION

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6. CONVENTION ADDRESS
   (If not known now may be added later)

7. DATE OF ARRIVAL DATE OF DEPARTURE

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