millicuries, the price drops to $22 per millicurie. The previous prices were $36 and $32 for these quantities.

Iodine-131 now costs 50 cents per millicurie for shipments of 499 millicuries or less, and 40 cents per millicurie for amounts greater than 499 millicuries. Previously iodine-131 cost 75 cents and 65 cents for like quantities.

News Briefs

■ Geologists of the Geological Survey, working in cooperation with the National Department of Mineral Production, Brazil, under the auspices of the International Cooperation Administration, have reported a large body of zinc and copper mineralization near the small village of Vazante in the northwestern part of the state of Minas Gerais, Brazil. The deposit is in branching, subparallel fault breccia zones that range from a few meters to 60 meters in width. Samples indicate that ore may average 35 percent zinc.

Copies of the report and maps have been placed on open file. They may be inspected at the libraries of the Geological Survey in Washington, D.C.; Menlo Park, Calif.; and Denver, Colo.; and at the office of the Departamento Nacional da Producao Mineral, Rio de Janeiro, Brazil.

■ Marie-Jacques van Nedervelde recently stumbled upon an important find of prehistoric animal bones when he chased a rabbit into a cave on Caldy Island near Tenby in western England. About 200 specimens were sent to a museum, where an expert has reported that "they are among the most important archeological discoveries of recent years in Britain, and certainly the westernmost signs of the Ice Age."

■ Moscow radio has reported that last month two Soviet scientists descended into the crater of an active volcano in eastern Siberia. This was the first time since 1923 that anyone had been inside the 9000-foot crater of Avachinskaya Sopka.

The men climbed about 750 feet into the crater, then slid down a rope for another 180 feet. Steam and suffocating gases were spurting from holes in the rock floor during the 20-minutes that the group took pictures and made observations.

Scientists in the News

EARL L. GREEN, associate professor in the department of zoology at Ohio State University, has been named director of the Roscoe B. Jackson Memorial Laboratory, Bar Harbor, Me.

E. N. DA C. ANDRADE, since 1928 Quain-Professor at the University of London, England, will lecture on 17 Sept. at the Franklin Institute, when he will discuss the "Mechanical behavior of metal single crystals."

ROBERT ROBINSON, internationally known British organic chemist, celebrated his 70th birthday on 13 Sept. Simultaneously, Interscience Publishers, Inc., published *Perspectives in Organic Chemistry,* edited by Alexander Todd and dedicated to Robinson. In this volume a number of his pupils and friends, such as Paul Bartlett, Linus Pauling, R. B. Woodward, Karl Ziegler, and others have contributed essays about their particular branches of organic chemistry.

JOHN A. D. COOPER, associate professor of biochemistry, has been appointed assistant dean of the Northwestern University Medical School. At present Cooper is in Brazil to direct a course on radioisotope techniques in biology and medicine. He also will make a 3-month tour of South American universities and scientific societies.

ALMON W. SPINKS, an electrical engineer, has rejoined the staff of the electrical instruments section of the National Bureau of Standards. Spinks, who had 24 years of previous experience at NBS, will be in charge of the bureau's aircraft electrical network laboratory, which provides consultation service and makes qualification tests on electrical aircraft equipment for the Navy.

MARK G. FOSTER, a physicist and former head of the development division at the Cornell Aeronautical Laboratory, Buffalo, N.Y., has been appointed director of research for the Crosley Government Products Division, Avco Manufacturing Corporation. He will have his offices at the Crosley plant in Evendale, Ohio.

LEE DE FOREST, pioneer in the development of modern radio, was honored in Munich, Germany, on 27 Aug., when the Munich plant for Beckman Instruments, Inc., gave a dinner to celebrate his 83rd birthday. Dr. and Mrs. De Forest are touring Europe for 6 months.

A. STANLEY THOMPSON, formerly chief engineer of the nuclear power department of the Studebaker-Packard Corporation, recently joined the General Atomic Division of the General Dynamics Corporation. At present housed in temporary quarters in San Diego, Calif., General Atomic will begin construction this year of its permanent laboratory facilities on a site in the northern part of the city.

GORDON W. DOUGLAS has been appointed professor and chairman of the department of obstetrics and gynecology at New York University College of Medicine, a unit of New York University–Bellevue Medical Center. He succeeds William E. Studdiford, who is retiring. Douglas has been on the university's college of medicine staff since 1949.

JORGE ANCIZAR-SORDO, director of the Laboratorio Quimico Nacional, Bogota, Colombia, and a fellow of the AAAS, recently celebrated his 25th anniversary of service as a chemist for the Colombian Government.

ROBERT HERMAN, formerly assistant to the director of the Applied Physics Laboratory, Johns Hopkins University, and visiting professor of physics at the University of Maryland, has accepted a position as consulting physicist on the General Motors research staff at the GM Technical Center.

SAMUEL MOSS, formerly physiologist at the Dairy Husbandry Research Branch, Department of Agriculture, Beltsville, Md., has been appointed executive secretary of the Human Embryology and Development Study Section, Division of Research Grants, National Institutes of Health, Bethesda, Md.

Recent Deaths

WILLIAM A. BLACK, Montclair, N. J.; mechanical engineer in charge of the research laboratory at the General Time Corporation; 24 Aug.

JOHANNES S. BUCK, Rensselaer, N. Y.; 60; associate director of chemistry at the Sterling-Winthrop Research Institute; former associate professor of chemistry at Duke University; 10 Aug.

ROY E. CLAUSEN, Berkeley, Calif.; 65; professor and chairman of the department of genetics at the University of California, Berkeley; vice president of the AAAS Pacific Division in 1947; 21 Aug.

LOUIS GREENWALD, New York, N. Y.; 67; physician who specialized in diseases of the blood; former associate professor of medicine at the New York Medical College; 27 Aug.

ALFRED C. KINSEY, Bloomington, Ind.; 62; professor of zoology and director of the Institute for Sex Research at Indiana University; 25 Aug.

GILBERT E. KLEIN, Oak Ridge, Tenn.; 39; senior metallurgist with the solid state division of the Oak Ridge National Laboratory; 20 Aug.

MEYER LEVITZ, New York, N. Y.; 46; retired chairman of the physics and general science department of Christopher Columbus High School; 29 Aug.

GEORGE M. REED, Pittsburgh, Pa.; 78; curator emeritus of the Brooklyn Botanic Garden; 30 June.

GEORGE I. SWETLOW, Brooklyn, N.Y.; 57; professor of medical jurisprudence at the Brooklyn Law School; lecturer on neuroanatomy at the Long Island College Hospital; 20 Aug.

Education

■ New York University has commissioned a 65-foot schooner, the *Action,* for oceanographic research. The following studies are among those planned for the *Action*:

1) Air-sea boundary processes, including the exchange of energy between the atmosphere and the oceans and oceanic effects on long-range weather forecasting.

2) Solar radiation, including the question of how much of the sun's energy penetrates the sea and how much is reflected. Knowledge of the water-air "heat exchange" is expected to help improve weather forecasting.

3) Evaporation from water surfaces under different weather and sea conditions.

4) Exchange of water masses between the open sea and Long Island Sound and other landlocked water bodies in the New York area. This study would give—besides the basic hydrographic information—clues to the solution of such problems as water pollution and the washing away of certain mainland and island coasts by tides and other currents.

5) Offshore land-sea breezes. These occur, for example, in the summer when warm air rising off the land brings in cool breezes in the afternoon. At shore areas, offshore breezes cause an upwelling of cold water from lower layers of the ocean. More information about this would aid water-temperature forecasting for bathing and fishing purposes.

■ The National Science Foundation has granted $545,000 to the University of Michigan for studies leading to the establishment of an observatory. The studies, under the direction of Robert R. McMath, director of McMath-Hulbert Observatory, are a continuation of work undertaken last year by the university with previous grants from the foundation.

■ American Cyanamid Company's Lederle Laboratories and Research Divisions held "An Evening of Science" at Pearl River (N.Y.) High School recently to stimulate scientific interest in students of 27 high schools. An elaborate display included such diverse exhibits as microscopes and specially prepared slides, live mice, chick embryos, and petri dishes showing the growth of antibiotic-producing molds.

■ The U.S. Navy has established a work-study scholarship plan for high-school graduates in an effort to relieve the shortage of engineers and scientists. Under the plan, students will combine work at naval installations with scientific study at colleges. The Navy will provide partial scholarships for the study phase, as well as a government salary during both the work and study periods. In return students agree to continue after graduation as naval civilian employees for a minimum of 1 year for each year of training received. For information, write to the Office of Industrial Relations, Navy Department, Washington 25, D.C.

■ St. John's College, Annapolis, Md., is to have a new science building that will house ten laboratories, 20 special-project rooms, and a planetarium. Construction is being financed with the aid of grants totaling $1.25 million from the Old Dominion Foundation of New York.

Grants, Fellowships, and Awards

■ The U.S. Public Health Service has organized a program to provide specialized training in steroid investigation. The National Cancer Institute has established grants for a joint training program in steroid biochemistry to be conducted at Worcester, Mass., and at Salt Lake City, Utah, through the cooperative effort of the Worcester Foundation for Experimental Biology, Shrewsbury, Mass., with the department of chemistry at Clark University, Worcester, and the department of biochemistry at the University of Utah College of Medicine. Two types of fellowships are planned: a 1-year program, carrying a stipend of $5000, for candidates who hold an M.D. or a Ph.D. degree; and a 6-month, $1500 program for candidates having a B.S. or M.S. degree in chemistry, or in medical technology or an equivalent.

The postdoctoral fellowship is intended for scientists who contemplate research involving steroid techniques and who wish to obtain a broad experience. During a portion of the year such fellows may initiate work on their particular problems under the guidance of established investigators.

The predoctoral program is primarily for training in the analytic determination of various steroids. Trainees completing the 6-month program will be able to carry out such determinations competently, either in connection with a research program or for diagnostic purposes. Both training programs will include theoretical and practical considerations as well as experience in specialized techniques.

The first groups will begin on 1 Jan. 1957 at Salt Lake City, and 1 Feb. 1957 at Worcester. In both cases the closing date for application is *1 Nov. 1956.* For more information about the program, communicate with Dr. Kris Eik-Nes, Department of Biochemistry, College of Medicine, University of Utah, Salt Lake City, or Dr. Frank Ungar, Worcester Foundation for Experimental Biology, Shrewsbury, Mass.

■ The North Atlantic Council has approved for the second year a NATO-sponsored fellowship and scholarship program designed to encourage study and research in subjects of mutual interest to NATO members. Areas of study include social, cultural, and scientific fields. The application deadline is *1 Nov.* for the two categories of awards specified:

1) Research fellowships, for 2- to 4-month periods, to candidates of recognized stature. Submit applications to the Conference Board of Associated Research Councils, 2101 Constitution Ave., NW, Washington 25, D.C.

2) Scholarships to younger scholars for the 1957–58 academic year. Apply to the Institute of International Education, 1 E. 67 St., New York 21, N.Y.

■ The National Institute of Neurological Diseases and Blindness has announced that funds are being made available to medical schools to strengthen existing clinical programs in advanced training in the neurological diseases. The purpose is to stimulate the interest of more young physicians and scientists in careers as teachers and investigators.

Training grants also are available to basic science departments to expand postdoctoral training programs in the neurological sciences. Further information, together with application forms, may be obtained from the Chief, Extramural Programs, National Institute of Neurological Diseases and Blindness, National Institutes of Health, Bethesda 14, Md.

■ The Division of Medical Sciences of the National Academy of Sciences–National Research Council will accept applications for postdoctoral research fellowships for 1957–58 *until 1 Dec.* The fellowships are awarded in the early spring. Complete details and application blanks may be obtained from the Division of Medical Sciences, National Academy of Sciences–National Research Council, 2101 Constitution Ave. NW, Washington 25, D.C.

The following groups of fellowships are awarded and administered by the division's Medical Fellowship Board: (i) *National Research fellowships in the medical sciences,* supported since 1922 by the Rockefeller Foundation; (ii) *Donner fellowships for medical research,*