netics, 2–22 Aug. The course on genetics of fungi is being offered for the first time this year, and G. Pontecorvo of the University of Glasgow will be in charge.

A limited number of fellowships covering part of the tuition fees will be available for graduate students. In addition, research facilities for work on microbial genetics throughout the summer will be available to a limited number of independent research workers. Information may be obtained from the Biological Laboratory, Cold Spring Harbor, New York.

Grants, Fellowships, and Awards

■ Rand McNally and Company will offer 25 full-tuition scholarships to teachers and supervisors in elementary and secondary schools for a workshop in geography at the Northwestern University summer session. The scholarships are part of the Rand McNally centennial, which is being observed throughout 1956.

Offered in cooperation with Northwestern's School of Education and department of geography, the scholarship program is intended to enable teachers to explore new concepts in the field of geography. Applications must be filed *by 1 Apr.* The Geography Workshop will be held on the Evanston campus from 25 July to 3 Aug. Applications and additional information may be obtained from the Dean, School of Education, Northwestern University, Evanston, Ill.

■ The New York Botanical Garden has announced the Gertrude S. Burlingham fellowship in mycology for advanced predoctoral or postdoctoral summer study at the garden. The stipend is $700; work under this appointment may begin at any time after 1 June and should continue for approximately 3 months. Nominations or applications should reach the director *by 15 Apr.*

■ The Cancer Research and Hospital Foundation has announced its annual Sherman Pratt fellowship for clinical cancer chemotherapy. The award will be made to graduates of accredited United States or foreign medical schools who are interested in gaining experience and training in new methods of clinical cancer chemotherapy developed by the Institute of Applied Biology.

The award comprises $7000 for a 1-year fellowship, or $3500 for 6 months. Applicants should submit name, address, age, medical school, year of graduation, postgraduate experience, and background to the Sherman Pratt Fellowship Award Committee, Cancer Research and Hospital Foundation, 161 E. 90 St., New York 28.

■ The Gravity Research Foundation, New Boston, N.H., has announced the 1956 awards for essays on gravity. Five winners will be named on 1 June. They will be selected for the best 1500-word papers on the possibilities of discovering (i) some partial insulator, reflector, or absorber of gravity; (ii) some alloy, or other substance, the atoms of which can be agitated or rearranged by gravity to throw off heat; or (iii) some other reasonable method of harnessing, controlling, or neutralizing gravity. The awards will be for $1000, $300, $200, $150, and $100, respectively.

Essays, with two carbon copies, must be received *before 16 Apr.* They will be accepted from anyone who is seriously interested in the application of gravity to practical uses for the benefit of humanity. All essays must be typewritten in English on 8½ by 11-inch paper. A title covering the area of thought expressed in the essay and a summary paragraph of 100 words or less should be included, as well as a short biographical sketch.

■ National Mass Media awards for children's books were presented on 6 Feb. by the Thomas Alva Edison Foundation. *The Boy Scientist,* by John Lewellen and published by Simon and Schuster, won the Best Children's Science Book award (for younger children).

■ The James F. Lincoln Arc Welding Foundation of Cleveland, Ohio, is offering $20,000 in cash awards for ideas or suggestions that will accelerate progress in arc welding. Residents of the United States or its possessions are invited to submit ideas to the foundation on any aspect of arc welding that can be used to advance welded design, welding engineering, or the general application of the arc-welding process. No restrictions are placed on either the nature or the extent of ideas that may be submitted for award.

The $20,000 will be distributed in 20 awards with a top one of $5000; others will amount to $4000, $3000, $2000, and $1000. There will be additional smaller prizes. Ideas must be submitted *by 30 July.* Complete information and rules are available from the James F. Lincoln Arc Welding Foundation, Cleveland 17, Ohio.

In the Laboratories

■ Parke, Davis and Company has announced that it will build a new medical research center that is to cost approximately $10 million. This year will be devoted to planning; actual construction is expected to take two additional years. The exact location of the new facility has not yet been decided.

■ The American Cyanamid Company has effected the consolidation of its research activities into a single division under the direction of Kenneth H. Klipstein. Geographic regrouping has brought related activities together at the appropriate research laboratory. This consolidation is part of a divisional realignment of the company that started 2 years ago.

The research division, which has equal status with the nine operating divisions and carries out research for them, is grouping related activities in the laboratories at Bound Brook, N.J.; Pearl River, N.Y.; and Stamford, Conn.

At Bound Brook a new administration-laboratory building will house research activities primarily related to the organic chemicals and pigments divisions.

At Pearl River new construction will make it possible to centralize all research in the pharmaceutical and biological fields. The laboratories at Stamford, Conn., will carry on researches in plastics, agricultural chemicals, industrial chemicals, and mineral dressings, as well as process development and basic research in new fields.

■ The Naugatuck Chemical Division of the United States Rubber Company has acquired a 150-acre tract of land in the Scott's Bluff region of Baton Rouge, La., on which it plans to construct a new chemical plant for the manufacture of Kralastic plastic materials. Kralastic is a copolymer based on styrene, butadiene, and acrylonitrile that is used for pipe, automotive parts, and a variety of other industrial products.

■ The Southern California Edison Company will be the first utility in California to produce electricity from atomic energy. The Atomic Energy Commission has authorized Atomics International, a division of North American Aviation, Inc., and the Edison Company to negotiate a contract in connection with the Atomics International experimental reactor near Santa Susana. The company's investment in the nuclear installation will be slightly more than $1 million.

California Edison has announced that it will share the information and experience it derives from building and operating the station. To the extent permitted by the AEC, a number of representatives of both public and privately owned utilities will be allowed access to the station to obtain information on engineering features and data and to observe operating and maintenance phases of the project. Electricity from the experimental nuclear electric plant will be available for commercial use in the Santa Susana area some time during the coming summer.

■ The Spinco Division of Beckman Instruments, Inc., now located at Belmont, Calif., has broken ground in Stanford Industrial Park for a $500,000 research and development center that will be devoted to highly specialized instruments for the advancement of medicine and the diagnosis of disease. The first earth was turned by Arnold O. Beckman, president of Beckman Instruments, Inc., and the Spinco cofounders, Maurice Hanafin and Edward Pickels.

■ Plans for construction of a reactor facility at Schenectady, N.Y., have been announced by ALCO Products, Inc. To be built and equipped at a cost of about $230,000, the nuclear laboratory will be completed in May of this year. It will be located in the company's main plant. The facility will be used for nuclear experiments in connection with ALCO's contract for design and construction of the Army Package Power Reactor that is now under construction at Fort Belvoir, Va.

■ The Atomic Energy Commission has announced that the Argonne National Laboratory, Lemont, Ill., has been assigned responsibility for the design and development of a military nuclear reactor plant for production of electricity and for space heating. The commission and the laboratory have selected the Pioneer Service and Engineering Company of Chicago to work with the laboratory on the design of the reactor and the associated plant.

The project calls for the design of a low-power, heterogeneous, boiling reactor, to be known as the Argonne Low-Power Reactor (ALPR). The power plant that is proposed would produce a combined electrical and heat-energy output of several hundred kilowatts. The ALPR is planned as a prototype of nuclear plants for use in remote areas by the military services.

■ Plans for construction of a series of research laboratories on a 22-acre site at Stanford University for advanced studies in missiles and unmanned aircraft have been announced in a statement issued jointly by the university and the Lockheed Aircraft Corporation. The announcement also disclosed details of Lockheed's plan for expanding its missile systems division; this will entail a new base at Sunnyvale, Calif.

Establishment of the new missile division facilities in Palo Alto and in Sunnyvale are first steps in a research and development program in which Lockheed will invest approximately $20 million during the next 3 years. About $7 million will be spent on the first two Stanford laboratories and the initial Sunnyvale construction.

■ The research activities of Merck and Company, Inc., will be consolidated in a new division of the company, to be called the Merck, Sharp and Dohme Research Laboratories. This division will be responsible for all of the company's new product research in biology, chemistry, and medicine. Heretofore this work has been under the direction of the company's Chemical Division in Rahway, N.J., and the Sharp and Dohme Division in West Point, Pa. Max Tishler takes office on 1 Mar. as head of the new division with the title of vice president and executive director; at present he is vice president for scientific activities of the Chemical Division.

Miscellaneous

■ In the March issue of *The Scientific Monthly,* John Cockcroft writes on the "Future of atomic energy." This article is based on an evening lecture he presented at the International Conference on Peaceful Uses of Atomic Energy in Geneva last August. Other articles appearing are "History of science and the sociology of science," Herbert Dingle; "Meaninglessness of the word *protoplasm,*" Garrett Hardin; "Human resources and national security," Eli Ginzberg, Edward A. Fitzpatrick, Howard A. Meyerhoff, and Eugene M. Kulischer; and reports of the AAAS Atlanta meeting. Six books are reviewed.

■ A new list of science and engineering vacancies under UNESCO's Technical Assistance Program has been released by the New York office. The following conditions apply in general to all posts: (i) salaries range from $6000 to $8400 a year, free of national income tax; (ii) lodging is furnished by the host government or a lodging allowance is provided; (iii) travel expenses of the expert are paid to duty station and back, and expenses are also paid for a wife and dependent children if a contract is for 1 year or longer; (iv) the expert, who holds the status of an international civil servant, receives annual and sick leave, hospitalization, and insurance benefits; and (v) unless otherwise specified, English is the only required language.

Current openings are for a meteorologist or geophysicist, Karachi, Pakistan; a specialist in science teaching, Taipeh, Formosa; an expert in solar energy, Heliopolis (near Cairo), Egypt; a professor of electronics, Calcutta, India; a professor of physical chemistry, Haifa, Israel; a nuclear physicist, Cairo, Egypt; two research specialists with training in sociology and social psychology, one for Rio de Janeiro, Brazil, and the other for the Philippines; a professor of sociology, Damascus, Syria; two specialists in the restoration of monuments and the conservation of archeological sites, one for Iran and the other for Pakistan; and a specialist in the use of television for adult education, France. Applications for these posts or for additional information should be addressed to the Technical Assistance Unit, UNESCO, United Nations, New York 17, N.Y.

■ Section 6 of the X-Ray Diffraction Data Card File, which is distributed by the American Society for Testing Materials, has recently been published. It is available in plain and keysort cards and covers approximately 600 new powder patterns and 600 revised and improved data patterns previously issued in Sections 1 to 5, inclusive. The Diffraction Data File is sponsored by the American Crystallographic Association, the American Society for Testing Materials, the British Institute of Physics, and the National Association of Corrosion Engineers.

A revised *Cumulative, Alphabetical and Grouped Numerical Index of X-Ray Diffraction Data* (*STP 48E*) including the new Section 6 has also been published. For information, address the American Society for Testing Materials, X-Ray Dept., 1916 Race St., Philadelphia 3, Pa.

■ The American Sociological Society, publisher of the *American Sociological Review,* has announced the publication of *Sociometry,* a journal of research in social psychology. Founded in 1937 by J. L. Moreno, this quarterly journal will become an official publication of the society with the March 1956 issue.

Leonard S. Cottrell, Jr., social psychologist, Russell Sage Foundation, will be the editor. The new *Sociometry* will report research in social psychology, and at the same time provide an outlet for the developing body of theory in this field.

The annual subscription rate is $9 for both domestic and foreign subscribers, with single issues priced at $2.25. Correspondence regarding subscriptions should be addressed to The American Sociological Society, New York University, Washington Square, New York 3. Correspondence with the editor should be sent to Dr. Leonard S. Cottrell, Jr., Russell Sage Foundation, 505 Park Ave., New York 22.

Errata: In the article "Pronuclear fusion as affected by x-rays and by postirradiation anaerobiosis," by C. S. Bachofer, in the issue of 27 Jan., page 139, the last sentence in column 1 should begin "The term ¼-fused is used to designate . . .," not "The sum ¼-fused . . ." as printed.

In the article "Magnetic techniques for *in vitro* isolation of leucocytes," by Sumner Levine, in the issue of 3 Feb., page 186, the equation should read $\mu = \sqrt{n(n+2)} = 4.90$ Bohr magnetons, instead of as printed with the square root sign covering the last part of the equation.