change, which is attached to the Smithsonian Institution and financed by seven Government agencies, is a clearing house of information. Its files are coded under 80 categories and 4132 subcategories that range from aging to viscosity.

Any reputable scientist or agency can obtain a resumé of research being done on any subject by writing to Dr. Deignan. A staff of 34 workers of various categories prepare and send out the answers.

None of the information supplied by the BSIE may be published—some of the material is little more than an idea in a scientist's mind that may not appear in a professional journal for years. To prevent plagiarism, those receiving information of value are required to advise the scientist from whose work they benefit.

The office serves several purposes. It tells researchers what work already has been done on their problem and puts them in touch with other scientists in the same field. It also lists the past and present support received by every applicant for a research grant. In this way, it helps prevent duplication of both research and research support. Brief abstracts are on file of every project sponsored by 80 major research-financing organizations.

LEO MARION, director of the Division of Pure Chemistry of the National Research Council of Canada, has received the Chemical Institute of Canada medal for 1956. The medal, which is awarded annually for outstanding contributions to Canadian chemistry and chemical engineering, is sponsored by the International Nickel Company of Canada, Ltd.

The following are among those who have recently received honorary doctoral degrees.

Lynchburg College: A. B. MASSEY, the Wildlife Unit, Virginia Polytechnic Institute.

Union College: JOSÉ DE ASSIS RIBEIRO, president, South American General Electric Company.

Syracuse University: CARL L. BAUSCH, senior vice president, Bausch and Lomb Optical Company.

Carnegie Institute of Technology: LEWIS L. STRAUSS, chairman of the U.S. Atomic Energy Commission; JAMES B. FISK, executive vice president of the Bell Telephone Laboratories; JAMES H. KINDELBERGER, chairman of the board, North American Aviation; LON H. COLBORN, chemistry teacher, Taylor Allderdice High School, Pittsburgh, Pa.

College of Wooster: JOSEPH E. HENDERSON, director of the Applied Physics Laboratory, University of Washington.

MAX B. LURIE, professor of experimental pathology at the Henry Phipps Institute of the University of Pennsylvania, has received the 1956 Trudeau medal from the National Tuberculosis Association in recognition of his studies in native and acquired resistance to tuberculosis.

Winners of awards for the five best essays on gravity have been announced by the Gravity Research Foundation, New Boston, N.H. FREDERIK J. BELINFANTE, professor of Theoretical Physics at Purdue University, received the first award of $1000. The remaining awards were made as follows: STEPHEN W. GRAY, associate professor of anatomy at Emory University, $300; RICHARD BLYTHE, physicist at the Willow Run Laboratories, University of Michigan, Ypsilanti, $200; FRANK J. LOW, a graduate student at the Rice Institute, $150; and SIDNEY A. BLUDMAN, a theoretical physicist at the University of California Radiation Laboratory, $100.

BENJAMIN BOSS, director of the Dudley Observatory of Union University, will retire in July after 48 years of continuous service. He succeeded his father when the latter died in 1912. The present Prof. Boss continued his father's work in determining and cataloging the positions and motions of the stars, so that the project grew to include more than 33,000. These are recorded in the five-volume *General Catalog* that was published in 1937. This work consolidated the mass of prior calculations which appeared in the *San Luis Catalog* of 15,333 stars that was published in 1928 and the *Albany Catalog* of 20,811 stars that was published in 1931.

In the course of his career, Boss has made a number of significant discoveries. One of these, the fanning out of the stars in a skew formation toward one hemisphere of the sky, confirmed the rotation of the Milky Way. He also discovered a group of stars in the constellation Taurus and another in Perseus. Other research has dealt with the relationship between the candle power of stars, their motion toward or away from the earth, and their distribution with reference to the Milky Way.

ABRAHAM FLEXNER, whose report on medical education in 1910 led to the overhauling of American medical schools, has received the Frank H. Lahey memorial award. The award, which is sponsored jointly by the National Fund for Medical Education, the American Medical Association, and the Association of American Medical Colleges, is given periodically for "outstanding leadership in medical education."

KARL M. BOWMAN, a psychiatrist, has announced his retirement as medical superintendent of the University of California's Langley Porter Clinic, which he joined 15 years ago. Before that he was director of psychiatry at Bellevue Hospital in New York and a professor at New York University. He has devoted many years to research in psychiatry, particularly for the armed forces, and has done extensive work on the problem of alcoholism.

JAMES W. TURNBOW, assistant professor of engineering mechanics at the University of Texas, has received the Convair award for excellence in engineering teaching.

WINSTON H. BOSTICK, associate professor of physics at Tufts College, has been appointed professor and head of the department of physics of Stevens Institute of Technology. At present Bostick is on leave from Tufts to conduct research for the Atomic Energy Commission at the Radiation Laboratory of the University of California. His special field of work there has been the study of the interaction of plasmas and magnetic fields. Bostick is the inventor of a "plasma gun," which shoots bursts of high-speed plasma through a magnetic field for laboratory study.

DAVID EHRENFREUND, associate professor of psychology at the State College of Washington, has been appointed chairman of the psychology department at Adelphi College.

Recent Deaths

NATHAN I. BERGER, New York, N.Y.; 83; retired chemical consultant; 2 June.

BURGHARD BREITNER, Innsbruck, Austria; 72; professor of surgery at Innsbruck University; president of the Austrian Red Cross since 1950; 28 Mar.

GEORGE H. CLARK, New York, N.Y.; 75; electrical engineer; pioneer in wireless telegraphy who had been with the Radio Corporation of America since 1919; 3 June.

THOMAS A. COLE, Poughkeepsie, N.Y.; 72; bacteriologist; formerly superintendent of the Poughkeepsie city water filtration plant; 26 May.

OSCAR A. DE LONG, Upper Montclair, N.J.; retired electrical engineer; 31 May.

ALPHEUS M. GOODMAN, Ithaca, N.Y.; 71; emeritus professor of agricultural engineering at Cornell University; 28 May.

JAMES L. HEAD, Douglas Manor, N.Y.; 61; retired mining engineer; 3 June.

HARVEY F. MACK, Easton, Pa.; 77; pioneer in the printing of scientific periodicals; 29 May.

CARL NEUBERG, New York, N.Y.; 78; research professor of biochemistry at New York Medical College; former director of the Kaiser Wilhelm Institute of Experimental Therapy in Berlin and of the Kaiser Wilhelm Institute for Biochemistry at Dahlem; founder of the journal *Biochemische Zeitschrift,* the first journal devoted exclusively to the biochemical sciences; discoverer of a process for making glycerin from sugar, which led to the commercial production of nitroglycerin by yeast fermentation; 30 May.

ROBERT N. RANDOLPH, Westfield, N.J.; mechanical engineer for 33 years with New Jersey Bell Telephone Company; 31 May.

DAMASO DE RIVAS, Tallehassee, Fla.; 81; former professor of pathology at the University of Pennsylvania Medical College; specialist in tropical diseases; 28 May.

NELSON G. RUSSELL, Buffalo, N.Y.; 83; professor of medicine emeritus at the University of Buffalo Medical School; 4 June.

PERCY F. SMITH, Hamden, Conn.; 88; James E. English emeritus professor of mathematics and chairman of the department at Yale University; 3 June.

MALFORD W. THEWLIS, Wakefield, R. I.; 66; pioneer in geriatrics; founder of the American Geriatrics Society; 3 June.

WILLIAM C. WOOD, Philadelphia, Pa.; 70; professor emeritus of otolaryngology at the University of Pennsylvania Graduate School of Medicine; 4 June.

Education

■ The Alfred P. Sloan Foundation, Inc., has made a grant of $150,000 to the Menninger Foundation, Topeka, Kan., in support of the Menninger School of Psychiatry. This is the foundation's first sizable commitment in the field of mental health.

The Menninger School is observing its tenth anniversary this year. Since its establishment, 500 physicians have been enrolled in its 3- to 5-year training program, and as of 1 July 140 fellows will be studying there.

■ Indiana University has dedicated its new David Starr Jordan Hall of Biology. The $5.8 million teaching and research center for bacteriology, botany, and zoology honors the late Dr. Jordan, who was professor of zoology at the university and its president before he assumed that post at Stanford University. Forty-five scientists read papers during the dedication ceremonies.

■ A basic research project in insect taxonomy, specifically designed for the preparation of taxonomic monographs on United States parasitic wasps, has started under the joint sponsorship of the University of Michigan and the Dow Chemical Company. The university has provided laboratory space and general facilities for the work in its Museum of Zoology at Ann Arbor, and Dow is providing funds.

The project director is Henry Townes, who has joined the university staff as a research associate; he formerly served as associate professor of entomology at North Carolina State College, Raleigh. Associated with Townes is Robert R. Dreisbach, Dow consultant and a specialist in insect taxonomy.

Initial work will be devoted to the family Ichneumonidae, which includes about 7500 species of which about two-thirds are still unnamed. Cooperation with research workers in other institutions will be freely sought and freely given.

■ The University of Michigan has received $178,750 from the Herbert H. and Grace Dow Foundation of Midland, Mich., for the establishment of a television system in the University Hospital. Equipment will include a regular portable black and white camera, a film camera that will project color slides and films to class rooms, control equipment, and a special color camera that will be mounted over the operating table.

Although the system will be used primarily to telecast on a closed circuit, it will be color compatible, and thus it will be possible to telecast, nationwide if necessary, through local commercial stations in either color or black and white. It will also be possible for other hospitals throughout the state to purchase special closed-circuit receiving apparatus for seeing programs on the hospital television circuit.

■ The Argonne National Laboratory reports that 76 faculty members and 41 students, representing 63 American educational institutions, have been accepted for summer employment. The laboratory, which is operated for the U.S. Atomic Energy Commission by the University of Chicago, makes such appointments annually to encourage research and to strengthen teaching in fields related to atomic energy.

In addition, 61 faculty members from 36 American engineering colleges and universities are enrolled in a 2-month nuclear energy institute that will be held at the laboratory beginning 25 June. The institute, the first of its kind, is being sponsored jointly by the laboratory, the Atomic Energy Commission, the American Society for Engineering Education, the National Science Foundation, and Northwestern University. The purpose of the institute is to provide engineering college faculty members with training that will help them to incorporate nuclear engineering material into their courses of instruction.

■ The University of New Mexico has announced that next fall it will operate a graduate training center at the Los Alamos Scientific Laboratory. Contract negotiations between the university and the University of California, which operates Los Alamos for the U.S. Atomic Energy Commission, have been completed. The purpose of the graduate center is to provide a program of courses leading to the master of science degree in the fields of physics, chemistry, mathematics, and engineering.

John F. Suttle, associate professor of chemistry at the University of New Mexico, will be resident director of the program at Los Alamos; he will begin his duties on 1 Aug. The new center will differ from the present graduate program sponsored by the University of New Mexico in that students may attain the M.S. degree with residence entirely at Los Alamos.

Previously, laboratory employees had to interrupt their employment so that they might complete their residency requirements at Albuquerque. To meet requirements for the Ph.D. degree, it will still be necessary for the candidate to have at least two consecutive semesters of residence on the University of New Mexico campus.

Grants, Fellowships, and Awards

■ The National Research Council of Canada has awarded 27 medical research fellowships for 1956–57. Total value of the awards is $72,950, plus traveling allowances when required. All fellowship recipients are medical graduates who will engage in research in the medical sciences. Twenty-two of the awards will be held in Canadian universities, four in the United States, and one in England.

■ The Nutrition Foundation, Inc., has announced that nominations are invited for its $1000 Osborne and Mendel award, which was established to recognize exploratory research in the science of nutrition. The award will be given to the investigator who has made the most significant published contribution in the year preceding the annual meeting of the institute, or who has published a series of contemporary papers of outstanding significance.

As a general policy, the award will be made to one person; however, if in the judgment of the jury of award an in-