

submitted should be sent *before 1 Sept.* to the secretary of Section N, Dr. Allan D. Bass, Department of Pharmacology, Vanderbilt University School of Medicine, Nashville 5, Tenn.

Idaho Reactor Damaged

The U.S. Atomic Energy Commission has announced that the core of the experimental breeder reactor No. 1 at the National Reactor Testing Station in Idaho was damaged in an experiment to determine the behavior of the reactor during sudden power increases. On 29 Nov., during a planned power surge in the course of the final experiment of a series, a verbal instruction to shut the reactor off was misunderstood, and as a result enough heat was produced to damage the core.

Some radioactivity was released within the building, which was promptly evacuated. No significant radiation exposure or damage other than to the core occurred as a result of the experiment. The full extent of the damage to the core will not be determined until it can be removed and examined. It is believed that the heat generated was sufficient to cause at least partial melting.

Work is underway to remove the core. It is believed that portions of the core structure will have to be replaced to put the reactor into operating condition if additional experimental work with the reactor is considered desirable. The reactor was designed and is operated by Argonne National Laboratory.

News Briefs

■ The Atomic Energy Commission has announced formation of a Committee for Uranium Isotopic Standards that will work toward establishment of national AEC-certified standards. Standards will be established on the basis of U-235 and U-238 content and of total uranium content. Based on this group of primary samples, the AEC will prepare and distribute certified samples. Generally recognized standards of this sort will be of value both in Government operations and private industry for a variety of comparison purposes associated with analytical work.

■ West Germany's first refrigeration and speed laboratory for testing airplane equipment has recently been completed at Brunswick under the auspices of the German Research Authority for Aviation.

■ Ornithologists at the Cornell University Laboratory of Ornithology have succeeded in recording for the first time the

voices of two very uncommon birds, the whooping crane and the trumpeter swan. The whooping crane is North America's second rarest bird and is nearly extinct; the trumpeter swan is the fourth rarest. Both species often call in duets, the female adding her voice to the trumpeting of the male. The Cornell group had already recorded the voice of the rarest species, the ivory-billed woodpecker. Third in rarity, the California condor, is believed to be nonvocal.

■ The Wix auditorium of the Weizmann Institute of Science, Rehovoth, Israel, was dedicated on 3 Apr. in the presence of 500 persons who were attending the opening of the International Symposium on Macromolecular Chemistry. The \$500,000 auditorium is the gift of Michael Wix, British cigarette manufacturer. It was built for the symposium, which was the first international conference on science held in Israel.

Scientists in the News

ROGER W. RUSSELL, professor and head of the department of psychology at University College, London, England, has been appointed executive secretary of the American Psychological Association. Before going to London in 1949, Russell had been associate professor of psychology at the University of Pittsburgh. He will return to the United States in July.

Russell replaces FILMORE SANFORD, who has resigned to become associate director for scientific studies of the Joint Commission on Mental Illness and Health. The commission was established as the result of special legislation that permitted the appropriation of \$1,250,000 in Federal funds to support nationwide studies of mental health.

ROBERT L. CLARK, formerly of the Office of Defense Mobilization, has joined the National Science Foundation to serve as executive secretary of the National Committee for the Development of Scientists and Engineers [*Science* **123**, 662 (20 Apr. 1956)]. In establishing the committee on 3 Apr., President Eisenhower said: "The National Science Foundation will provide staff services for the Committee and provide leadership to other departments and agencies in carrying forward activities which will contribute to a solution of the problem."

ALBERT G. HOGAN, professor emeritus of animal nutrition at the University of Missouri, received the \$1000 Osborne and Mendel award of the American Institute of Nutrition at its annual meeting on 18 Apr. He was honored "for his development of synthetic rations for

use in nutritional studies and for his original investigations in the field of biochemistry and nutrition, which have made him one of the greatest contributors to the development of our present knowledge of animal nutrition."

DORLAND J. DAVIS has been appointed associate director of the National Institute of Allergy and Infectious Diseases, Bethesda, Md. In the newly established post Davis, who has served since 1954 as chief of the Laboratory of Infectious Diseases, will be responsible for the planning, organization, and direction of the institute's research program in Bethesda and its field station in Hamilton, Mont.

RAYMOND W. HESS of the National Aniline Division, Allied Chemical and Dye Corporation, has received the Jacob F. Schoellkopf medal of the Western New York Section of the American Chemical Society "for outstanding contributions to the solution of the chemical, social and economical problems associated with the control of pollution, and for devoted service to the Western New York Section as officer, committeeman and historian."

CLIFTON G. FOUND, for 9 years research director for the General Electric Lamp Division, Cleveland, Ohio, and its technical adviser since 1951, retired from active service on 30 Mar. He has served G.E. for more than 40 years.

A native of Canada, Found attended the University of Toronto, where he received both his B.A. and Ph.D. in physics. He joined G.E. at Schenectady in 1916, where he was put in charge of lamp research in 1936. He transferred to Nela Park, Cleveland, in 1942 to serve as research director in what is now the Advanced Lamp Development Laboratory. He has written many scientific articles and holds a score of patents. Found expects to reside permanently in Bay City, Mich.

WILLIAM H. ARMISTEAD, director of the research and development division at Corning Glass Works, Corning, N.Y., has been elected a vice president of the company.

GEORGE N. PAPANICOLAOU, professor emeritus of clinical anatomy, Cornell University Medical College, has been selected as the recipient of the \$5000 Passano Foundation award for 1956. He will receive the award in Chicago on 13 June during the week of the American Medical Association convention. He is being honored for his fundamental researches in exfoliative cytology, now widely applied in the early detection of cancer, especially of the uterus.

GEORGE E. KIMBALL, a chemical physicist and pioneer in operations research, will join the staff of Arthur D. Little, Inc., Cambridge, Mass., as science adviser on 1 July. Kimball, a member of the Columbia University faculty since 1936, will collaborate on the general guidance of the company's scientific activities.

YADOLLAH SHARIF, chief of the veterinary section, and RAHMA TOLLAH DEYHIMY, chief of the food inspection section of the animal affairs department of the Iranian Army, arrived in Washington, D.C., on 2 Apr. for a 6-week tour of installations of the Army, the Public Health Service, the Quartermaster Corps, and the Department of Agriculture.

EDWARD U. CONDON, who is at present serving as visiting professor of physics at the University of Pennsylvania, will be a visiting lecturer in the department of physics at the University of Wisconsin, 25 June–17 Aug. He will teach a course in quantum mechanics and conduct a graduate seminar in solid-state physics.

MAURICE W. HALE has been named director of the division of veterinary medicine at the Walter Reed Army Institute of Research, Washington, D.C. Before joining the Walter Reed staff, Hale was for 3 years in charge of all the U.S. Army veterinary activities in Europe, with headquarters in Heidelberg. He succeeds CHESTER A. GLEISER, who until his assignment to Germany next July will continue in the veterinary division as deputy director.

CHARLES D. SWARTZ of Johns Hopkins University will join Union College on 1 Sept. as associate professor of physics.

Grants, Fellowships, and Awards

■ The U.S. Public Health Service has announced a new procedure to expedite the processing of research grant applications for those requests that do not exceed \$2000 plus indirect costs and do not ask support for more than 1 year. Such applications will be accepted and processed on receipt and will not be subject to the usual submission deadlines.

Council recommendations can be expected on these applications from 1 to 4 months from the time of submission. These procedures do not apply to requests for supplements to existing grants. Address all applications, as well as requests for forms or additional information, to the Division of Research Grants, National Institutes of Health, Bethesda 14, Md.

■ The American Heart Association has announced awards totaling \$830,000 to 131 scientists for cardiovascular research to be conducted during the 12 months beginning 1 July. These grants raise to more than \$14 million the research funds allocated by the Heart Association and its affiliates since the organization became a national voluntary health agency in 1948.

The most recent awards provide for three career investigators, 64 established investigators, and 64 research fellows, who will conduct their studies in 24 states, the District of Columbia, Great Britain, Greece, and Denmark. The career investigatorship provides an unrestricted lifetime support to scientists of unusual accomplishment and outstanding ability. It provides \$25,000 per year to cover the stipend of the career investigator and to help meet the expenses of his laboratory.

Established investigatorships are awarded to highly qualified, experienced scientists to conduct an independent program of research. They are given for 5-year periods, subject to annual review, and carry stipends of from \$6000 to \$9000 per year. Research fellowships, awarded for 1 and 2 years, are intended to help younger scientists become established in research careers. They provide stipends of from \$3500 to \$5600 per year.

Miscellaneous

■ The first issue of the *Illinois Journal of Mathematics* will be issued early next year. It is financed by part of the \$1-million estate left to the University of Illinois by George A. Miller, professor of mathematics, who died in 1951. The American Mathematical Society is joining in the support of the new quarterly, which will be devoted to basic research in pure and applied mathematics.

Each number will contain 150 pages. Papers will be published in English, French, German, and Italian. Editors will be Reinhold Baer, J. L. Dobb, and A. H. Taub of the University of Illinois, George W. Whitehead of Massachusetts Institute of Technology, and Oscar Zariski of Harvard University.

■ Highly qualified scientists are needed for the research and development of air weapon systems for the Air Force. Since June 1953, budgetary restrictions have prevented scientists from receiving a direct appointment in the Air Force Reserve.

As an exception to usual policy, the commander of the Air Research and Development Command, Baltimore, Md., may now forward to the Air Staff applications of outstandingly qualified scientists to be considered for direct appoint-

ment into the USAF Reserve and, upon approval, for immediate entry into extended active duty. Those accepted will be commissioned as second lieutenants and will serve a minimum active duty tour of 3 years.

■ The *Journal of the American Medical Women's Association* celebrates its tenth anniversary this month. A special issue includes material from those who contributed articles to the first issue and those who helped launch the journal. "Looking backward," by Esther P. Lovejoy, tells the history of women in medical journalism in the United States. Ada C. Reid, the former editor, describes the early development of the journal in "Those were the days!" Others who are represented are Elise S. L'Esperance, Carroll L. Birch, and Catharine Macfarlane.

Meeting Notes

■ The annual meeting of the North Dakota Academy of Science will be held 4–5 May in Jamestown, N.D.

■ Developments in the fields of radiation and isotopes as they apply to both civilian and military medicine and dentistry were featured at the fourth annual Military-Medical Symposium that met in Boston, Mass., 21–23 Mar. The symposium, which was sponsored by the First Naval District, was made up of a series of meetings and clinics. The first-day sessions were held at the U.S. Naval Hospital in Chelsea. The second- and third-day programs were devoted to clinics and lectures in various Boston hospitals.

Shields Warren, professor of pathology at the Harvard Medical School and a captain in the Navy Medical Corps, was general chairman of the meeting.

■ The third annual Conference for Engineers, sponsored by the College of Engineering of the Ohio State University, will be held in Columbus on 4 May. The keynote address on "The creative age—a challenge to engineers" will be delivered by John R. Hoover, president of the B. F. Goodrich Chemical Company of Cleveland, Ohio. At the luncheon session more than 1000 engineers will hear Dean E. Wooldridge, president of the Ramo-Wooldridge Corporation of Los Angeles, Calif., discuss "Systems engineering."

Following these talks, technical sessions will be held in the various engineering departments. Requests for information and reservations should be addressed to Harold A. Bolz, College of Engineering, Ohio State University, Columbus 10.