

NEWS

and Notes

The General Advisory Committee of the AEC, headed by J. Robert Oppenheimer, has unanimously censured the O'Mahoney rider to H. R. 4177, calling for FBI investigation of all fellowship applicants (*Science*, July 28, p. 103; August 12, p. 173). The committee's statement was signed June 6 and made public August 5.

"We understand that proposals have been put forward that would require all holders of AEC fellowships to be cleared after an FBI investigation," the committee stated. "We should like to register our strong disapproval of any such procedures. Admittedly, the tensions of the times and the secret nature of the atomic energy work require elaborate checks for all who have access to classified material. But to carry over the same security concepts to holders of fellowships who will in no way have access to secret or confidential information seems to us both unwise and unnecessary.

"It is clear that these requirements of FBI investigation of prospective holders of AEC fellowships would be to extend still further the area of federal interference with the private lives of citizens. We use the word 'interference' advisedly, for it is evident that the type of questioning of friends, relatives, and acquaintances required by the investigative procedures of the FBI do constitute an encroachment on the private affairs of many people. To repeat, we grant this to be necessary in these times in those cases where persons are to be employed on secret government matters. But we are horrified by the prospects of moving this whole semi-police apparatus into the realm of youth. We believe that the reputation of many young people of the country might be . . . impaired by rumors growing out of such a system of investigation of prospective fellowship holders. Older people can

see in proper perspective calls from FBI agents, they can answer questions about acquaintances without feeling that the man being investigated is under suspicion. But young people of university age are likely to react quite differently. An atmosphere of suspicion and uncertainty is likely to be generated by the activities of federal agents among many groups of friends in colleges, universities, and in local communities. In short, the results of requiring investigations of candidates of fellowships will have serious repercussions throughout the country; it will almost certainly have a serious adverse effect on both the atmosphere of our educational institutions and the outlook of one age group of the entire nation."

About People

Luigi Crocco, of the School of Aeronautical Engineering of the University of Rome, has been appointed Goddard Professor at Princeton University, to head the Daniel and Florence Guggenheim Jet Propulsion Center established last December. Associated with Dr. Crocco will be associate professors Lester Leeds and Joseph Charyk; assistant professors Seymour Bogdanoff and Abraham Kane; and Guggenheim fellows Frank W. Bailey, Sin-I Cheng, and Frank Kreith.

Morris Edward Opler, of the Department of Sociology and Anthropology of Cornell University, has been granted a year's leave of absence to study modern developments in the villages of India. Dr. Opler's study is sponsored by the Carnegie Corporation, Cornell, the Social Science Research Council, the Viking Fund of New York, and the Watumull Foundation of Los Angeles.

Harry Davis Bruner, head of the Department of Pharmacology of the University of North Carolina Medical School, has joined the staff of the Medical Division of the Oak Ridge Institute of Nuclear Studies, where he will conduct research in cancer.

H. H. Love retired June 30 as professor and head of the Department of Plant Breeding at Cornell

University, and has been appointed professor emeritus. Dr. Love's research during his 41 years at Cornell included the development of improved varieties of small grains. **Sanford S. Atwood** will succeed Dr. Love as head of the department.

John Howard Northrop, biologist at the Rockefeller Institute for Medical Research, Princeton, New Jersey, has been appointed visiting research professor of bacteriology at the University of California, Berkeley.

Visitors to U. S.

Erik Jacobsen, head of the research department of Medicinalco, Copenhagen, recently returned to Denmark after visiting the U. S. and Canada. Dr. Jacobsen conferred here with other investigators on the use of tetraethylthiuram disulfide ("Antabuse") in the treatment of alcoholism. Dr. Jacobsen spoke before the annual meeting of the American Psychiatric Association and a special meeting of the Association for the Advancement of Psychotherapy.

H. Bremer, of the Philips Lamp Company, Eindhoven, Holland, attended the symposium on radio wave propagation at the Naval Electronics Laboratory in San Diego. Dr. Bremer plans to be here for several weeks.

Grants and Awards

The University of Chicago has been granted \$10,000 by Swift and Company to conduct a study of sleep characteristics of infants. Children from six to twenty-six weeks of age will be observed; their movements in sleep and the distribution of periods of sleeping and wakefulness will be recorded. Special attention will be paid to the effect of diet on sleep habits.

The University of California has received a three-year grant of \$100,000 from the Rockefeller Foundation toward the establishment of an Institute of Personality Assessment and Research as an adjunct to the Department of Psychology on the Berkeley campus. The institute will

conduct basic research into the development and organization of personality through the assessment of individuals in a variety of fields and especially of persons applying for admission to professional schools of the university.

The J. Shelton Horsley Research Award of the Virginia Academy of Science has been presented to W. S. Flory, Jr., of the Blandy Experimental Farm, University of Virginia. Dr. Flory was honored for his study on pollen condition in some species and hybrids of *Rosa* with a consideration of associated phylogenetic factors.

The College of Physicians of Philadelphia awarded the **Alvarenga Prize** for 1949 to Owen Harding Wangensteen, professor of surgery, University of Minnesota, for his contributions to the etiology and therapy of gastric and duodenal ulcer. Dr. Wangensteen will deliver the Alvarenga Lecture on this subject at the college on November 2.

The Jane Coffin Childs Memorial Fund for Medical Research has announced the following appropriations totaling \$92,435 for support of cancer research projects and fellowships during the academic year 1949-50: *F. Duran-Reynals*, Bacteriology Department, Yale University School of Medicine, \$7,500 for the third year of his grant for the study of the relation of viruses to tumors; *Samuel C. Harvey*, Oncology Department, Yale University School of Medicine, \$8,500 for clinical and laboratory studies of cancer; *C. C. Little*, Roscoe B. Jackson Memorial Laboratory, \$4,500 for investigations on the mammary tumor inciter and related problems; *Eugene L. Opie*, Rockefeller Institute for Medical Research, \$8,000 for studies on osmotic and cytological effects of hepatic tumor-producing diets; *Arthur Kirschbaum*, Department of Anatomy, University of Minnesota Medical School, \$2,900 for studies on the induction and therapy of leukemia and other neoplasms of mice; *Alexander Haddow* and his associates at the Chester Beatty Research Institute of the Royal Cancer Hospital, London, \$5,000 for investigations on the

chemistry, virology, and chemotherapy of cancer; *E. S. Guzman Barron*, Biochemistry Department, University of Chicago, \$10,000 for studies of the metabolism of blood cells and of blood-producing tissues in health and disease; *T. M. Sonneborn* and *W. J. van Wagtenonk*, Zoology Department, Indiana University, \$6,500 for biochemical studies on the genetics of *Paramecium aurelia*; *Howard C. Taylor, Jr.* and *S. B. Gusberg*, Obstetrics and Gynecology Department, College of Physicians and Surgeons, Columbia University, \$4,100 for histochemical studies of abnormal growth of the human uterus; *Sir Ernest L. Kenneway*, St. Bartholomew's Hospital, London, \$1,500 for statistical and laboratory studies of cancer; *Edward W. Shrigley*, Microbiology Department, Indiana University Medical Center, \$4,000 for studies on the biology of the Rous sarcoma virus and of the properties of experimentally induced tumors; *Frances L. Haven*, Biochemistry Department, University of Rochester School of Medicine and Dentistry, \$3,000 for studies on the selective localization of radioactive estrogens and allied substances in normal and cancer-bearing tissues; *Rivka Ashbel*, Department of Surgery, Harvard Medical School, \$2,500 for completion of a specific histochemical method for the demonstration of adrenal cortical ketosteroid; *Nathan B. Friedman*, Division of Laboratories, Cedars of Lebanon Hospital, Los Angeles, \$2,735 for studies on cellular dynamics in intestinal mucosa as determined with antimitotic agents on animals of different age and nutritional status; *Joseph E. Sokal*, Department of Pathology, Yale University School of Medicine, under guidance of *C. N. H. Long* and *H. S. N. Greene*, \$2,500 for the third year of his fellowship; *John J. Trentin*, Department of Anatomy, Yale University School of Medicine, under guidance of *William U. Gardner*, \$4,400; *Walter S. McNutt*, University of Copenhagen, under guidance of *E. Hoff Jorgensen* and *H. Kalekar*, \$3,000.

The Louis Edward Levy Medal of the Franklin Institute of Pennsylvania

was awarded to Alan S. Fitzgerald, electrical research engineer of San Francisco, for his work on the design criteria of nonelectronic amplifiers.

Colleges and Universities

The University of Michigan and the Mt. Wilson Observatory are cooperating in a solar research project whose immediate object is obtaining a complete record of the infrared spectrum, to be made available as an atlas for working astronomers. An infrared spectrometer, contributed for the purpose by the Office of Naval Research, has been installed on a solar telescope at the observatory. Two long range studies are also planned, to supplement and check solar observations at the university's McMath-Hulbert Observatory. One is a determination of the abundance, varieties, and temperatures of such compounds in the earth's atmosphere as carbon dioxide, nitrous oxide, and methane, and the other is a study of the structure of the solar atmosphere.

Wayne University, Detroit, will receive a differential analyzer and cinema integrator as a gift from the Massachusetts Institute of Technology. MIT is acquiring a machine of newer design, and will no longer need the earlier one, which was designed by Vannevar Bush before the war and has since been remodeled.

A new agricultural experiment station will be established at **Virginia Polytechnic Institute** as the result of a gift from Paul Mellon of a 420-acre farm and \$125,000 for its operation. The station will be used to develop pasture and forage crops for northern Virginia.

Industrial Laboratories

The Linde Air Products Company, unit of Union Carbide and Carbon Corporation, has announced the synthesis of clear crystals of cadmium tungstate, which is being considered for use as a phosphor in scintillation counters for the detection of high energy radiations. This new tungstate maintains high phosphor effi-

ciency throughout the temperature range of 0° to 75° C and has high physical and chemical stability. The synthetic crystals are now available in $\frac{1}{8}$ -inch square section rods, in lengths up to 2 inches. In special cases larger single pieces can be supplied.

Eastman Kodak Company is producing photographic emulsions for nuclear research in pellicle form, without the usual glass support. In this form emulsions can be as thick as 250 microns and still be developed evenly because developing solutions work on both sides.

Meetings and Elections

Britain, which produces the largest amount of manufactured gas in the world, was appropriately the venue for the **4th International Gas Conference**, which was held June 15-17. The conference, organized by the International Gas Union, met for the first time since the war. An address of welcome was made by Hugh Gaitskell, Minister of Fuel and Power. President of the conference was C. M. Croft, of the British Institution of Gas Engineers, who retired toward the close of proceedings in favor of M. Brabant of Brussels, president of the union for the next three years.

Object of the International Union is the promotion of international co-operation in fuel research and technology. The organizers were glad to welcome delegates and visitors from Austria, Belgium, Canada, Czechoslovakia, Denmark, France, Great Britain, Holland, Italy, Norway, Sweden, Switzerland, Turkey, and the U. S. No curtain divides this body, which is essentially technical and not concerned with political or labor matters.

Principal themes were improvement of the efficiency of industrial gas manufacture and domestic utilization, which many countries reported to be the principal one. H. Zollikofer, general secretary of the International Gas Union and the Swiss Society of the Gas and Water Industry, pointed out, for instance, that in Switzerland about 80 percent of gas distributed is consumed domestically. Papers on the design of domestic burners were therefore a

feature of the conference. There was also a valuable survey by A. R. Bennett of progress in the domestic utilization of gas brought about by radiation, heat transfer, and aerodynamic studies. Reviews of research in France, Britain, and the U. S. were presented. Two of the British papers discussed procedures adopted for maintaining gas supplies during bombing of mains.

There were three papers of chemical interest. J. E. Carrière, of Holland, discussed modern methods of protecting cast iron and steel pipes, including the use of blown asphalt bitumen with fillers. A project for absorption and recovery of carbon monoxide from town's gas was presented by H. Deringer of Wintertour. More elaborate was the paper by P. Ferrero of Belgium on the chemical "valorization" of coal gas to yield ethylene derivatives (notably glycols) by fractionating the original gas for its 2 percent of this valuable olefine.

Important among the many visits which contributed to the success of the meeting was a tour of the highly mechanized Beckton Gas Works, which consumes $1\frac{1}{4}$ million tons of coal and produces 22,600 million cubic feet of gas annually. Major gas consumers were also visited.

I. BERKOVITCH

The 19th International Congress of Americanists will be held in New York City September 5-12. The congress, which meets biennially, has as its objective the historic and scientific study of the two Americas and their inhabitants. The Viking Fund, Inc. is sponsoring the meetings and the American Anthropological Association is acting as principal host.

The Third National Congress of Fruit Growing will be held in Ferrara, Italy, October 9-16. Scientists and technicians throughout the world are invited to attend. Additional information may be obtained by writing to the Secretary of the Third National Congress of Fruit Growing, Foreign Section, Via Salita Castello 10, Ferrara, Italy.

The American Standards Association will hold its thirty-first annual meeting October 11-14 at the Waldorf-Astoria Hotel in New York.

The National Academy of Sciences will hold its autumn meeting at the University of Rochester, Rochester, New York, October 24-26.

The Seventh Annual Pittsburgh Conference on X-Ray and Electron Diffraction will be held November 7-8 at the Mellon Institute of Industrial Research, Pittsburgh.

The Illinois Institute of Technology chapter of Sigma Xi elected the following officers for 1949-50: president, Karl Menger of the Department of Mathematics; vice-president, Eric T. B. Gross of the Department of Electrical Engineering.

Deaths

John R. Carty, 56, former professor of radiology and chief of the X-Ray Department of the New York Hospital, Cornell Medical Center, died July 12. Dr. Carty had retired several years ago because of ill health.

Alfred Rehder, 85, professor emeritus of the Arnold Arboretum, Harvard University, died July 21. Dr. Rehder conducted research in the taxonomy and bibliography of woody and Chinese ligneous plants.

Archie Garfield Worthing, 68, professor of physics at the University of Pittsburgh, died July 30. Dr. Worthing had done considerable work in high temperature measurements and tungsten research. He was past president of the Optical Society of America and of the American Association of Physics Teachers, and a member of the executive board of the American Institute of Physics.

Hyman H. Goldsmith, 42, physicist and chief of the Information and Publication Divisions of the Brookhaven National Laboratory at Upton, Long Island, died August 7 as the result of a swimming accident. Dr. Goldsmith was formerly associated with the Manhattan District Project and was co-editor of the *Bulletin of the Atomic Scientists*, published by the Educational Foundation for Nuclear Research.

Edward Lee Thorndike, 74, professor emeritus of educational psychology at the Teachers College of

Columbia University, where he had been a staff member since 1899, died August 9 at his home in Montrose, New York. Dr. Thorndike was one of the first to devise tests for the measurement of reasoning and learning ability; his Alpha test, used in World War I, introduced the present Army classification system.

Homer Adkins, 57, professor of chemistry at the University of Wisconsin, died August 10 at his home in Madison. Professor Adkins' most recent research was concerned with reactions of hydrogen and organic compounds in the presence of various catalytic agents. Outside the field of catalysis he had contributed greatly to knowledge of the reactivity of a variety of organic types.

Science has received word that the **Peiping Union Medical College** is continuing its teaching and research program, unaffected by the change in government. The city was besieged for a period of six weeks in December and January and after skirmishes in the suburbs, the Chinese Communist army took possession of the city. There was no extensive destruction of property and only a small number of casualties in the municipal area. Municipal power and light were curtailed over this period; but the college maintains its own power plant, and during the siege classes continued without interruption. American staff members have remained at their posts.

Following the turnover, postal communication was interrupted for almost two months, but this has now been restored. Surface mails during the winter were greatly delayed and journals for the library for the past six months are just now being delivered.

The college was occupied by the Japanese military during World War II and the first postwar entering class in medicine was received in 1947. The rehabilitation program is about half accomplished; more departments are to be restaffed this year and additional wards in the hospital put into service.

Unesco proposes to publish later in the year a **manual on the inter-**

national exchange of publications.

The manual will include an appendix containing a classified list of institutions, including libraries, universities, scientific institutions, learned societies, etc. throughout the world, which are willing to exchange either their own publications or other publications which they have regularly at their disposal. All institutions which have so far not sent to Unesco details of their exchange material in one form or another are urged immediately to communicate the following information to the Unesco Clearing House for Publications, 19 Avenue Kléber, Paris, 16^e: (a) Name and full address of institution. (b) Exact titles of publications offered. (c) Institutions which wish to exchange their publications only under certain conditions are asked to state what these conditions are. Only information which reaches Unesco before *October 1st* can be used in the manual.

The Sectional Committee on Standardization of Optics of the American Standards Association recently held its second meeting. Subcommittees reported completion of proposed standards on nomenclature and specifications of color, and research on light sources. The committee is sponsored by the Optical Society of America.

The National Registry of Rare Chemicals, 35 West 33rd Street, Chicago 16, Illinois, has submitted the following list of wanted chemicals: pentamethylphenol, durenol, 8-chlorotheophylline, 2-amino-1,3,4-triazole, vanillyl amide (Δ^2 -nonenoate), phosphonium bromide, 5-hydroxyuracil, perfluoroethylcyclohexane, vicine, myristicine, absinthin, 7-hydroxy-1-H-v-triazolo-(d)-pyrimidine, 7-(α)-12-(α)-dihydroxyprogesterone, 12-(α)-hydroxyprogesterone, bis-(2-(2'-fluoroethoxy)-ethoxy)-methane, xanthotoxin, sodium pregnanediol glucuronate, phloretin, hemipic acid, *p*-fluoroaniline, erythrophleine, and cyanogen.

An International Bibliography on Atomic Energy has been prepared by the Atomic Energy Commission group of the Department of Security Council Affairs of the United Na-

tions Secretariat. Volume I, which is now available, is a selective bibliography of material on the political, scientific, and social aspects of atomic energy. Volume II, which will be published later this year, will discuss published scientific literature on atomic energy.

The 1947-48 Report of the Committee on the Measurement of Geologic Time has just been published. The report includes an obituary on Alfred Church Lane; a summary of the committee's activities during the year; a report from Arthur Holms, of the University of Edinburgh; an article on "The Necessity for Different Values for the Ratio Pb/V of the Crust and the Rest of the Planet," by Juan Manuel Lopez de Azcona (translated by A. H. and J. P. Marble); a review of work in Japan by Dr. Marble; "Archaeological Ages by Natural Radiocarbon Content," by W. F. Libby, with comments by R. F. Flint; "Preliminary Report on Determining the Age of Rocks by the Lead-Uranium Ratio of Zircon, Apatite, and Sphene from the Rocks Using Alpha Counting and Spectrographic Methods," by E. S. Larsen, Jr., N. B. Keevil, and H. C. Harrison; and an annotated bibliography of articles relating to the measurement of geologic time, compiled by Dr. Marble. The report may be obtained from the Division of Geology and Geography, National Research Council, 2101 Constitution Avenue, N.W., Washington 25, D. C., at \$1.00 a copy.

Make Plans for—

Aeromedical Association, 20th annual convention, August 29–September 1, Statler Hotel, New York City.

American Mathematical Society, August 30–September 2, 55th summer meeting in conjunction with summer meetings of **Econometric Society**, **Institute of Mathematical Statistics**, and **Mathematical Association of America**, University of Colorado, Boulder.

American Psychological Association, September 6–10, Shirley Savoy Hotel, Denver, Colorado.