

American official, "that we've got the Russians boxed in and we've convinced the neutrals that the Russians just don't want a test ban. Except for the Indians," he added; "they come to their own conclusions and there's no use in trying to figure out how." This favorable appraisal tended to lose some of its shine in conversations with members of the neutral delegations. Views varied within each delegation and between delegations, but it appears from an admittedly incomplete survey that a number of the neutrals feel the United States is going to have to go a good deal closer to the Soviet position if a test ban is to be achieved. One line of comment reflects the feeling that the United States must recognize that it is dealing with a very difficult and disturbed adversary and therefore must be cautious, but nevertheless conciliatory and conscious of the adversary's painful states of mind. When the neutrals are asked whether it is unreasonable for the United States to insist that the Soviets agree to obligatory inspection, they reply that, after all, the Soviets have in effect agreed to it and more should not be expected of them. When it is pointed out that the Kennedy Administration could not hope to obtain Senate approval for a treaty that does not include obligatory inspection, the reply is to the effect that American politics are difficult but that Kennedy has more maneuvering room than Khrushchev. "The fact is," said a member of one neutral delegation, "that you fellows are going to blow up the world while you're bickering over petty matters."

With no shifts in position forthcoming on the inspection issue, the inevitable question, What next?, seems to have only one answer; a continuation and possible acceleration of the arms race, very likely into the realm of outer space, where, the belief is growing, the Soviets are now directing considerable effort. It has been argued that the arms race has reached a point where, on balance, an uninspected moratorium would be in the interest of the United States, since an uninspected moratorium would make it at least very difficult to develop nuclear weapons for space. The idea is not without adherents within the Administration, but the dominant view is that, while the arms race is perilous, it would be even more perilous if the first step toward arms control were not accompanied by a requirement that the Soviets stand ready to prove that they are living up to the agreement.—D. S. GREENBERG

## Announcements

The European Nuclear Energy Association, a branch of the 18-nation Organization for Economic Cooperation and Development, has formed a **European-American Committee on Reactor Physics** to promote the coordination of reactor physics research and the exchange of reactor physicists and experimental reactor materials. The committee, chaired by Bernard I. Spinrad, director of the Argonne National Laboratory's reactor engineering division, will periodically review reactor physics projects under way in sponsoring countries and arrange meetings and disseminate their results. A clearinghouse for information on heavy-water reactors will be established at the U.S. Atomic Energy Commission's Savannah River Plant, Aiken, S.C., to keep sponsoring countries up to date on experiments. The next meeting of the committee, to be held in Zurich, Switzerland, has been tentatively set for February 1963. (Bernard I. Spinrad, Reactor Engineering Div., Argonne National Laboratory, 9700 S. Cass Ave., Argonne, Ill.)

Polish-speaking medical professionals are being sought to staff a medical exhibition which will be displayed in several Polish cities during the months of January and February 1963. An orientation session will be held in Washington, D.C., during December of this year. Physicians, medical researchers, and technologists are needed who can converse with professional and lay audiences on the subject matter of the exhibits. (John W. Auer, Employment Branch, U.S. Information Agency, Washington 25, D.C.)

### Meeting Notes

The National Academy of Sciences has compiled a list of noninternational meetings to be held in the **Soviet Union and Eastern Europe**, to assist persons interested in scientific activities of those countries. The list, to be revised and published quarterly in the "Forthcoming events" section of *Science*, appears on page 870.

Scientists who are planning professional visits to these areas are invited to use reference material gathered by the Academy's Office of the Foreign Secretary. Copies of reports by American scientists on their visits to the Soviet Union, and similar data on other

Eastern European countries, are available free of charge. Requests should include a description of the exact field of interest so that relevant information may be prepared. Inquirers desiring additional information will be referred to persons familiar with the U.S.S.R. and Eastern Europe. (Office of the Foreign Secretary, NAS, 2101 Constitution Ave., Washington 25, D.C.)

A conference on the **conceptual bases of the communication sciences**, intended for both mathematicians and biologists, will be held in Los Angeles on 13 and 14 October. Since the number of participants will be limited, admission will be by ticket only. (Pearl Fles, c/o Mary A. B. Brazier, Brain Research Institute, University of California, Los Angeles 24)

### Grants, Fellowships, and Awards

The U.S. Atomic Energy Commission is inviting proposals for the design, construction, and operation of **all-nuclear power plants** to be powered by water-cooled and moderated reactors capable of producing at least 400,000 gross kilowatts of electricity. Financial assistance, up to a maximum dollar amount, will be available toward the research and development costs related to the supply system, and the costs of nuclear-facility and architect-engineer designs for the plant. The results of such research and development, and the designs, will be owned by the AEC. The proposer must provide a suitable site, bear all other related costs, and operate the plant for 5 years after initial criticality.

Proposals may be submitted by investor-, cooperatively-, and consumer-owned electric utilities and nuclear-power-plant manufacturer and designers in the U.S., its territories, Puerto Rico, and the Canal Zone. Deadline for receipt of proposals: *3 December*. (R. J. Hart, Division of Contracts, AEC, Washington 25, D.C.)

Nominees are being solicited for the 1963 **high-polymer physics** prize of the American Physical Society. The \$1000 award, sponsored by the Ford Motor Company, is for "outstanding accomplishment and excellence of contributions in high-polymer physics." Deadline for receipt of nominations: *1 November*. (Julian H. Gibbs, Metcalf Chemistry Laboratory, Brown University, Providence 12, R.I.)

## Scientists in the News

**Maurice M. Shapiro**, superintendent of the Nucleonics Division and head of the Cosmic Ray Branch, U.S. Naval Research Laboratory, has received a 1962-63 Guggenheim fellowship to serve as visiting professor at the Weizman Institute of Science, Rehovoth, Israel. During his absence **John McElhinney** will serve as acting superintendent of the division and **Bertram Stiller** will be acting head of the branch.

At the Alfred P. Sloan Foundation, New York:

**Everett N. Case**, former president of Colgate University, has been elected president of the foundation. He succeeds **Alfred P. Sloan, Jr.**, founder, who has resigned. Sloan will serve as chairman of the board of trustees, replacing **Albert Bradley**, who is retiring.

**Frank A. Howard**, industrial research consultant and chairman of the board of Sloan-Kettering Institute for Cancer Research, has been elected vice president with responsibility for cancer research affairs.

**Robert F. Brown, Jr.**, scientist with the National Bureau of Standards, has joined the Geotechnical Corporation, Garland, Texas, as a senior physicist.

**William K. Beatty**, associate professor at the University of Missouri, has been named professor of medical bibliography at Northwestern University Medical School.

**Harry Foreman**, of the University of California's Los Alamos Scientific Laboratory, has been appointed associate professor at the University of Minnesota College of Medical Science and senior faculty member in the division of radiological health.

**Raymond Grondahl**, professor and chairman of the department of clinical pathology at the University of Oregon Medical School, has resigned to enter private practice in Montana. He is succeeded by **Tyra T. Hutchens**, a member of the department.

**Willard Fazar**, operations research administrator in the Navy's Special Projects (POLARIS) Office and developer of PERT (Performance Evaluation and Review Technique), has joined Herner and Company, Washington, D.C., as vice president for operations research and systems engineering.

**I. Eugene Wallen**, marine biologist with the U.S. Atomic Energy Commission, has been appointed assistant director of oceanography at the Smithsonian Institution Museum of Natural History.

The late **James H. Kindelberger**, former chairman of the board of North American Aviation, Inc., will be posthumously awarded the 1962 Daniel Guggenheim medal for his "technical and industrial leadership in producing excellent aircraft, and space equipment from early fighters to the X-15 space plane." The award is sponsored jointly by the American Society of Mechanical Engineers, Society of Automotive Engineers, and the Institute of the Aerospace Sciences.

**Theodore E. Lee**, of the Toronto (Canada) Western Hospital's allergy laboratory, has been appointed a representative of the Hoffman-LaRoche Company, Toronto.

**Hugh de E. Bennett**, associate professor of medicine at Baylor University, has been named associate dean of Hahnemann Medical College and Hospital, Philadelphia.

**Joseph T. English**, assistant psychiatrist at the National Institute of Mental Health, has joined the Peace Corps for a 2-year term as its first full-time psychiatrist.

**Robert D. Rosenthal**, of Grumman Aircraft Engineering Corporation's space sciences group, has been named manager of the spacecraft systems engineering group at Fairchild Stratos Corporation, Hagerstown, Md.

**Cuthbert C. Hurd**, formerly special assistant to the vice president of research and engineering at International Business Machines Corporation, has been elected chairman of the Board of Computer Usage Company, Inc.

**Edward A. Martell**, formerly chief of the Nuclear Studies Branch, Air Force Cambridge Research Laboratories, has joined the research staff of the National Center for Atmospheric Research, Boulder, Colo.

At Georgetown University:

**Francis O. Rice**, head of the chemistry department, has been appointed principal research scientist in chemistry at the University of Notre Dame.

**Howard H. McFann**, director of re-

search in the U.S. Army Leadership Human Research Unit, Presidio of Monterey, Calif., has been named deputy director of program development in the university's Human Resources Research Office. He replaces **Theodore R. Vallance**, who has been appointed director of American University's special operations research office.

## Recent Deaths

**W. Warwick Cardozo**, 57; pediatrician, part-time assistant clinical professor at Howard University, and school medical inspector for the District Health Department, Washington; 11 Aug.

**R. Ruggles Gates**, 80; geneticist and emeritus professor of botany at Kings College, London; 12 Aug.

**George P. Heidler**; manager of the Chemical Industries Division of Wilson and Company, Chicago; 3 Aug.

**Arthur L. Henriksen**, 74; retired chemical engineer with Albert Verley & Co., New Jersey; 26 Aug.

**Eugene Holman**, 67; geologist and former chairman and chief executive officer of the Standard Oil Company (New Jersey) and general chairman of the 1956 annual meeting of the AAAS; 12 Aug.

**Leo G. Klein**, 50; research specialist in the department of pomology at New York State Agricultural Experiment Station; 26 Aug.

**Carl A. Knierim**, 59; chief chemist at the Baltimore Refinery of the American Smelting and Refining Company; 10 Aug.

**Axel L. Melander**, 84; research associate at the University of California Agricultural Experiment Station, Riverside, and emeritus professor in the Department of Biology at the City College of New York; 14 Aug.

**Philip Newmark**, 42; associate professor in the department of comparative biochemistry and physiology at the University of Kansas; 24 Aug.

**Charles K. Nichols**, 82; electrical engineer and retired assistant manager at Consolidated Edison Company, New York, and research associate in the department of birds of the American Museum of Natural History; 26 Aug.

**Harry W. Reddick**, 79; retired professor of mathematics at New York University and visiting professor at Syracuse University; 9 Aug.

**Royal E. Shanks**, 49; professor of botany at the University of Tennessee; 4 Aug.