that in the new college the proportion of fellows from each state to sit on the council will be arranged in advance so as to make its governing body geographically balanced. The president will be elected by the council and not, as in London, by a committee of all the fellows; and the members of the college will have representation on the council. The assumption of responsibility for a qualifying examination is not contemplated: the college will have no licentiates. Its two grades will be that of membership, conferred by a board of censors after examination, or, as in England, on published work; and that of fellowship, awarded to those chosen by the council year by year from among the members of more than four years' standing. Foundation fellows will include all those recognized as teachers of medicine by the medical faculties of the universities of Australia and of New Zealand. The college will absorb the Association of Physicians of Australasia, whose members will become foundation fellows. It will carry on the work of that association, including the organization of an annual meeting at different centers at which scientific communications are submitted. In drawing up its constitution the new college has taken full advantage of information put at its disposal by the Royal College of Physicians of London, which last winter appointed Sir Edmund Spriggs as an emissary. His visit to Australia was followed by one to England from Sir Charles Blackburn, Sydney; Dr. S. V. Sewell, Melbourne; Dr. L. S. Latham, Melbourne; Dr. A. W. Holmes à Court, Sydney, and Dr. E. B. Gunson, Auckland, who conferred with Lord Dawson of Penn and other colleagues at Pall Mall East. Apart from the promotion of research in clinical medicine and the dissemination of knowledge, the Australasian College will serve as a meeting point for physicians and provide opportunities for discussion and common action when legislative or other measures affecting the national health arise. The first president is Sir Charles Blackburn, consulting physician to the Royal Prince Alfred Hospital, Sydney, and the first vice-president is Dr. S. V. Sewell, physician to the Melbourne Hospital.

THE GEORGETOWN UNIVERSITY BRAIN RESEARCH INSTITUTE

ON September 10 the School of Medicine of Georgetown University, Washington, D. C., established an institute for the investigative study of the brain to be known as the Georgetown University Brain Research Institute. It will be under the direction of Dr. Othmar Solnitzky, professor of anatomy, with Dr. Francis J. Warner as assistant director.

A comprehensive program of neurological research work will be launched along the four following directions:

1. A complete study of the brains of vertebrates from the cyclostomes to the primates.
2. A thorough study of the development of the human brain with special regard to its morphology, nuclear masses and fiber tracts.
3. Experimental study of the function of the various nuclei and fiber tracts of the brain by means of Marchi degeneration and retrograde cell degeneration.
4. A comprehensive study of the neuropathology of the human brain.

The institute already possesses a large collection of animal and human brains, many of which are sectioned and stained. The instrumentarium will include, among others, the Horsley-Clarke stereotaxic instrument, the Vogt-Sartorius brain microtome, celloidin and paraffin microtomes, a specially constructed brain macrotome, cold electric cautery, moving picture camera, microphotographic camera and dissection microscopes. It will also have two full-time specially-trained technicians, a photographer and an artist. A large library of books, monographs and reprints covering every phase of the projected research is available. A modern and well-equipped animal experimental laboratory is being built.

The facilities of the institute will be made available to those interested in any phase of brain research. Individual desks and microscopes will be placed at the disposal of investigators.

Contributions of animal and human brains, both normal and pathological, as well as reprints of all neurological publications, will be gratefully accepted and duly accredited.

MELLON INSTITUTE TECHNOCHEMICAL LECTURES

A SERIES of lectures on important subjects in industrial chemistry and chemical engineering will be presented by research specialists of Mellon Institute during 1937–1938. These discourses, which will be delivered on Thursdays, in the fourth period (11:30 A. M.–12:30 P. M.), throughout both semesters, in the auditorium of the institute, will be open to all students of industrial chemistry and chemical engineering in the University of Pittsburgh, as well as to members of the institute.

October 14, Dr. E. R. Weidlein, "Chemical Engineering in the Industries."

October 21, Mr. S. M. Phelps, "Refractories Technology."

November 4, Mr. R. H. Heilman, "Heat Insulation."

December 2, Dr. J. L. Young, "Advances in Ferrous Metallurgy."

December 16, Dr. G. H. Young, "Corrosion Problems."

January 13, Dr. F. W. Adams, "The Heavy Chemical Industry."

February 17, Dr. E. P. Barrett, "Bone Products."

March 3, Dr. L. W. Bass, "Food Technology."

March 17, Dr. W. B. Burnett, "New Textile Products."

March 31, Dr. R. L. Wakeman, "Synthetic Resins."

April 14, Mr. D. E. Pearsall, "The Explosives Industry."

April 28, Mr. E. R. Mease, "Organic Chemical Processing."

May 12, Dr. E. B. Kester, "Coal Products."

SYMPOSIUM ON BIOPHYSICS OF THE AMERICAN INSTITUTE OF PHYSICS

A SPECIAL meeting devoted to the subject of biophysics will be held on November 4, 5 and 6 under the auspices of the American Institute of Physics. The Eldridge Reeves Johnson Foundation for Medical Physics of the University of Pennsylvania is cooperating in arranging the meeting and will act as host. All sessions will be held in Philadelphia at the university.

On certain evenings during and after the meeting Dr. Irving Langmuir will present a series of lectures under the Johnson Foundation Lectureship. The subject of the lectures will be "Monolayers and Multilayers and their Applications to Biological Problems."

The names and tentative subjects of some of those expected to address the morning and afternoon sessions are as follows:

William Mansfield Clark, professor of physiological chemistry, the Johns Hopkins Medical School, "Potential Energies of Biologically Important Oxidation-Reduction Processes."

Wallace O. Fenn, professor of physiology, University of Rochester, "The Mechanics of Muscular Contractions."

Herbert S. Gasser, director, the Rockefeller Institute for Medical Research, "Electrical Signs of Biological Activity."

L. H. Germer, research physicist, Bell Telephone Laboratories, Inc., "Electron Diffraction Methods of Studying Organic Films."

E. Newton Harvey, professor of physiology, Princeton University, "The Physical Properties of Protoplasm."

Selig Hecht, professor of biophysics, Columbia University, "The Photochemical Basis of Vision."

M. H. Jacobs, professor of general physiology, University of Pennsylvania, and director, the Marine Biological Laboratory at Woods Hole, "Diffusion Processes in Living Systems."

Francis O. Schmitt, associate professor of zoology, Washington University, "Optical Studies of Living Systems."

D. W. Bronk, professor of biophysics, University of Pennsylvania; director, the Johnson Foundation for Medical Physics, "The Relation of the Biological and Physical Sciences."

Additional papers have been invited on nuclear physics as a tool for biological research, the pathological effects of radiation, energy exchanges in living systems and other biophysical subjects.

As a part of the meeting, the last day, Saturday, November 6, will be devoted to contributed papers and general discussion. Workers in the field are invited to contribute ten-minute papers on the subjects of their researches. They are requested to submit abstracts not exceeding 200 words in length, not later than October 25 to insure a place in the final program.

A further announcement of the meeting will be mailed to any one interested in receiving it. There will be no general circularization of notices. Admission cards will be necessary for some of the sessions. The institute and the foundation are anxious to welcome any one interested in the subject of the conference and will gladly mail information and admission cards upon request, addressed to American Institute of Physics, 175 Fifth Avenue, New York, N. Y.

THE ANNUAL MEETING OF THE AMERICAN WELDING SOCIETY

THE eighteenth annual meeting of the American Welding Society will open at Atlantic City on October 16 and continue through Friday, the 22d. A metals exposition in which nearly fifty organizations are participating will be held. The American Society of Mechanical Engineers will join in sponsoring a technical session on Tuesday afternoon.

At the opening session at the Hotel Traymore on Monday morning, Alfred E. Gibson, vice-president of the Welman Engineering Company, Cleveland, Ohio, will deliver the annual presidential address. E. R. Fish, of the Hartford Steam Boiler and Insurance Company, senior vice-president of the society, will preside. The Samuel Wylie Miller Memorial Medal "for meritorious achievement contributing conspicuously to the advancement of the art of welding and cutting" and the Lincoln Medal "for the best paper of the year in the *Welding Journal*" will be awarded and the election of new officers will be announced.

Comfort A. Adams, formerly Gordon McKay professor of electrical engineering at Harvard University, will present a report of progress in the Welding Research Committee of the Engineering Foundation of which he is chairman. This committee, organized in 1935, is sponsoring more than fifty active research projects in universities of the United States and Canada; assembling, digesting and publishing the world's available information regarding welding research; and correlating current and future programs in industrial and fundamental research in welding.

Reviews of welding activities will be made by the regional vice-presidents of the society and there will be a series of eight technical sessions, describing recent advances in welding. "Fundamental Research in Welding" will be the subject of an all-day symposium