5. Establishing bureaus, generally at existing institutions, at which certain lines of investigation could be carried on for any astronomers needing them. For example, a computing bureau which would prepare the tables needed for any special or general purpose, as a bureau for computing orbits of newly discovered asteroids, or comets, a bureau for measuring photographs, thus determining precise positions, radial velocities from spectra, etc. Such work can be carried on far more efficiently by an astronomer in his own surroundings than if he is transported to a new establishment.

6. Making arrangements by which astronomers, overburdened by teaching, would be enabled to devote a specified portion of their time to research.

7. Assisting students taking postgraduate courses in astronomy, so that they could continue such work.

8. Supplying small telescopes, or other appliances, to those qualified to use them.

9. In general, aiding the advance of astronomy in any way that might prove efficient.

E. C. Pickering,
Chairman
Ernest W. Brown,
William W. Campbell,
Edwin B. Frost,
Henry N. Russell,
Frank Schlesinger

REPORT OF THE SUBCOMMITTEE ON CHEMISTRY

The following recommendations concerning the organization of efforts to advance the cause of research in chemistry are made on behalf of the committee in an informal way. The members of the committee exchanged opinions by correspondence, but no formal report was discussed by them.

1. To avoid duplication of work, to secure unity and strength of effort and to save the time of research chemists overwhelmed with committee work on this subject, the fusion of the research committee of the Committee of One Hundred and of the National Research Council, as recommended by the Committtee on Fusion, is strongly endorsed.

2. A survey is recommended of all the investigators in chemistry, including those connected with universities, colleges, the government, state or municipal services, endowed research institutions and research laboratories of industrial establishments—with special emphasis on the field of work for which each man might be available.

3. The organization of efficient but simple means is recommended for bringing to the attention of research men in universities and colleges, who indicate an interest in technical research, those problems of manufacturers in the various states and centers of the country, which could be handled in the laboratories in question.

4. The consideration of the issue of a warning to universities and colleges is recommended in regard to:

(*a*) The imminent danger of allowing the university laboratories in which research men for the whole country are trained, to be too much weakened by the loss of staff of pronounced research ability to the technical research laboratories.

(*b*) The importance of protecting research teachers against the encroachments of administrative duties of every kind.

(*c*) The importance of giving younger members of the staff of proved research ability every opportunity in the way of time, facilities and assistants for the development of their full powers.

(*d*) The necessity of definitely protecting research in pure science where provisions are being made for closer connections with technical problems.

5. The furthering of plans for cooperative research between departments and between institutions is recommended for consideration.

J. Stieglitz,
Chairman

REPORT OF THE SUBCOMMITTEE ON RESEARCH FUNDS

During the year which has elapsed since the last annual meeting of the American Association, the report then made has been revised and somewhat extended. In this revised form it has been printed in Science.

Reprints of it accompany this report. They can also be sent to members of the Committee of One Hundred who so desire.

It is intended presently to collect data regarding Astronomical Observatories and Marine Biological Laboratories which hitherto have been delayed by unavoidable circumstances.

It is desirable to secure authoritative information regarding the appropriations which are annually made by the federal government and many state legislatures for research in agricultural and engineering subjects, unless the committee should be relieved from doing this because of the similar work undertaken by the committee appointed by the National Academy of Sciences.

CHAS. R. CROSS,
Chairman

SCIENTIFIC NOTES AND NEWS

DR. JULIUS STIEGLITZ, professor of chemistry in the University of Chicago, has been elected president of the American Chemical Society. Dr. Stieglitz has also been elected president of the Society of Sigma Xi.

THE alumni of Columbia University will give a dinner on February 19 in recognition of the university's contributions to science and engineering. The guest of honor will be Professor M. I. Pupin, who completes his twenty-fifth year of service to the university.

THE gold medal of the Royal Astronomical Society has been awarded to Mr. W. S. Adams, of the Mount Wilson Solar Observatory, for his investigations in stellar spectroscopy.

THE Geological Society, London, has this year made the following awards: Wollaston medal, Professor A. F. A. Lacroix (Paris); Murchison medal, Dr. G. F. Matthew (Canada); Lyell medal, Dr. Wheelton Hind (Stoke-on-Trent); Bigsby medal, Mr. R. G. Carruthers (H.M. Geological Survey); Wollaston fund, Dr. P. G. H. Boswell (Imperial College of Science); Murchison fund, Dr. W. Mackie (Elgin); Lyell fund, Dr. A. H. Cox (King's College, London), and Mr. T. C. Nicholas (Trinity College, Cambridge); Barlow-Jameson fund, Mr. H. Dewey (H.M. Geological Survey).

AT the suggestion of the chairman of the National Research Council of the National Academy of Sciences the following Committee for the Encouragement of Research at the University of Chicago has been appointed: President Judson, Trustees Martin Ryerson, Julius Rosenwald and Harold Swift, Professors Coulter, Michelson, Millikan, T. C. Chamberlin, Stieglitz, E. H. Moore and Bensley, and, from the alumni of the university, Dr. F. B. Jewett, of the Western Electric Company, New York City, and Dr. R. F. Bacon, director of the Mellon Institute.

RAYMOND CECIL MOORE, Ph.D. (Chicago, '16), has been appointed head of the state geological survey of Kansas. Dr. Moore has been engaged in geological survey work in Missouri and Illinois and for the United States government, and is now connected with the University of Kansas.

AT the annual meeting of the trustees of the Rockefeller Foundation Dr. George E. Vincent, president of the University of Minnesota, was elected president of the foundation to succeed Mr. John D. Rockefeller, Jr., who was appointed chairman of the board of trustees. Messrs. Charles E. Hughes, Julius Rosenwald, of Chicago, and Dr. Wallace Buttrick, chairman of the General Education Board, were also elected trustees, and Mr. Edwin Rogers Embree, assistant secretary of Yale University, was elected secretary to succeed Mr. Jerome D. Greene.

GEORGE R. LA RUE, assistant professor of zoology at the University of Michigan, has been appointed director of the University of Michigan Biological Station at Douglas Lake, Michigan.

DR. WILLIAM S. STONE has been appointed assistant director of cancer research of the Memorial Hospital, New York City.

MAJOR JOHN A. AMYOT, Toronto, formerly director of the Ontario Board of Health laboratories and professor of hygiene and public medicine in the University of Toronto, has