neers may have a more definite picture of up-stream engineering as an important field of public and professional activity.

There is a wealth of experience and data as to down-stream engineering and works required for navigation, power development and flood control—levees, large dams, great reservoirs and channel improvements on major streams. But necessary as these are for the safeguarding of those who live in areas subject to destructive floods and of property located therein, it must be remembered that down-stream waters originate largely in up-stream areas. The objects of up-stream engineering are through forestry and land management to keep water out of our streams, to control its action once in the stream and generally to retard the journey of the raindrop to the sea. Thus the crests of down-stream floods are lowered.

In accordance wth your further suggestion I am appointing as a committee to organize and promote such a conference or institute: Hugh H. Bennett, chief of the Soil Conservation Service, Department of Agriculture; Morris L. Cooke, administrator of Rural Electrification Administration, and F. A. Silcox, chief of the Forest Service, Department of Agriculture.

THE MONTREAL BOTANICAL GARDEN

WORK on the construction of the Montreal Botanical Garden, which had been in prospect for several years, has been commenced this spring. The garden is administered by a commission of five, which includes the directors of the botanical departments of both the University of Montreal and McGill University.

Frère Marie-Victorin, director of the Institute of Botany at the University of Montreal and author of "Flore Laurentienne," has been named director of the garden. Henry Teuscher, formerly director of the Boyce Thompson Arboretum and later dendrologist of the New York Botanical Garden, has been engaged as superintendent and chief horticulturist to design and to lay out the garden and to take charge of its horticultural activities.

An administration building, two greenhouses and a modern heating plant, all of which were built three years ago, are now in operation. A nursery has been prepared and, as a first display unit, an economic garden has been laid out, which is to serve for the instruction of school children and which will exhibit this year 124 varieties of fodder-plants, grain-crops, vegetables, oil-plants, etc.

The first section of the garden, comprising about 150 acres, is expected to be ready for inauguration by 1942 for the tricentennial celebration of the founding of Montreal. Eventually the garden is to cover almost 600 acres of ground.

This fall the Montreal Botanical Garden expects to contribute for the first time to the international seed exchange, which is maintained between the botanical gardens of the world, by offering seeds of various interesting and little known Canadian plants.

THE NATIONAL ASSOCIATION OF SCIENCE WRITERS

THE election of Howard W. Blakeslee, science editor of the Associated Press, as president of the National Association of Science Writers has been announced recently. Mr. Blakeslee succeeds David Dietz, science editor of the Scripps-Howard Newspapers, who had held the office of president since the organization of the association in September, 1934.

Other officers elected for the ensuing year include: William L. Laurence, science news editor of *The New York Times, vice-president;* John J. O'Neill, science editor of *The New York Herald-Tribune, treasurer;* Thomas R. Henry, of the *Washington Star, secretary.*

Active members of the association, in addition to those already named, include Watson Davis, director of Science Service; Victor Henderson, of the *Philadelphia Inquirer;* Waldemar Kaempffert, science editor of *The New York Times;* Gobind Behari Lal, science editor of the Hearst newspapers; Herbert B. Nichols, physical science editor of *The Christian Science Monitor;* Frank Thone, biology; Robert D. Potter, physics and chemistry; Jane Stafford, medicine, and Marjorie Van De Water, psychology, staff members of Science Service; Steve McDonough, of the Associated Press, and Allen Shoenfield, of the *Detroit News.*

F. B. Colton, of the National Geographic Society, is an associate member. Austin H. Clark, of the Smithsonian Institution, and Dr. J. McKeen Cattell, editor of SCIENCE, are honorary members.

The association was formed "to foster the dissemination of accurate scientific knowledge by the press of the nation in cooperation with scientific organizations and individual scientists." Active membership is limited to staff members of newspapers and press associations, who devote their major efforts to the field of science writing.

THE PITTSBURGH MEETING OF THE AMERICAN CHEMICAL SOCIETY

CELEBRATING the sixtieth anniversary of its founding, the American Chemical Society will hold a five-day meeting in Pittsburgh, beginning on September 7. Dr. Edward Ray Weidlein, director of the Mellon Institute of Industrial Research, Pittsburgh, president-elect of the society, has been named honorary chairman of the meeting, which it is expected will be attended by more than 3,000 chemists, industrialists, educators, government workers and scientific men representing allied fields. Chester G. Fisher, president of the Fisher Scientific Company, is chairman of a local committee of one hundred and five members who will arrange a local program with the cooperation of the industries, the U. S. Bureau of Mines and the educational institutions of the district.

Nineteen scientific divisions of the society will hear reports of progress in practically every field of chemical science. Four sessions will be devoted to coal. Chemists from England, Germany and the United States will speak on the hydrogenation of coal under the auspices of the Division of Gas and Fuel Chemistry.

Research to be reported at other sessions includes the fields of agricultural and food, biological, cellulose, colloid, fertilizer, industrial and engineering, medicinal, organic, paint and varnish, petroleum, physical and inorganic, rubber, sugar and water, sewage and sanitation chemistry; the history of chemistry, chemical education and microchemistry.

The secretaries of the divisions are:

Agricultural and Food Chemistry: H. R. Kraybill, Purdue University.

Biological Chemistry: C. A. Elvehjem, Agricultural Chemistry Building, University of Wisconsin.

Cellulose Chemistry: W. O. Kenyon, Research Laboratory, Eastman Kodak Company.

Chemical Education: N. W. Rakestraw, department of chemistry, Brown University.

Colloid Chemistry: Richard Bradfield, department of soils, Ohio State University.

Fertilizer: H. C. Moore, P. O. Box 1685, Atlanta, Ga.

Gas and Fuel Chemistry: Alden H. Emery, Room 728, Mills Bldg., Washington, D. C.

History of Chemistry: Mildred W. Grafflin, *Chemical Abstracts,* Ohio State University.

Industrial and Engineering Chemistry: Erle M. Billings, State St., Rochester, N. Y.

Leather and Gelatin Chemistry: Edwin R. Theis, department of chemical engineering, Lehigh University.

Medicinal Chemistry: D. L. Tabern, Abbott Laboratories, North Chicago, Ill.

Organic Chemistry: Ralph L. Shriner, department of chemistry, University of Illinois.

Paint and Varnish Chemistry: G. G. Sward, 2201 New York Ave., N. W., Washington, D. C.

Petroleum Chemistry: C. R. Wagner, Pure Oil Company, 35 East Wacker Drive, Chicago, Ill.

Physical and Inorganic Chemistry: H. S. Booth, Western Reserve University.

Rubber Chemistry: C. W. Christensen, Rubber Service Laboratories Company, 1012 Second National Bank Bldg., Akron, Ohio.

Sugar Chemistry: E. W. Rice, National Sugar Refining Company of New Jersey, 129 Front St., New York, N. Y.

Water, Sewage and Sanitation Chemistry: C. R. Hoover, 8 Pike Place, Middletown, Conn.

Microchemical Section: Frank Schneider, school of chemistry, Rutgers University.

THE MATHEMATICAL ASSOCIATION OF AMERICA

THE twentieth summer meeting of the Mathematical Association of America will be held during the week of August 31–September 5, at Harvard University in connection with its tercentenary and in conjunction with the summer meeting of the American Mathematical Society and the Institute of Mathematical Statistics. Meetings of the Association for Symbolic Logic and of the American Astronomical Society will also be held during the same week.

This is the first week of the Harvard Tercentenary Conference of Arts and Sciences. Among the scholars whom Harvard University is inviting as lecturers are several eminent mathematicians. Through the courtesy of the university their lectures will be delivered before the society. The addresses (titles tentative) will be given in the New Lecture Hall. On Tuesday afternoon at two o'clock Professor E. J. Cartan, of the University of Paris, will deliver a lecture entitled "L'extension du calcul tensoriel aux géométries non affines." Professor L. E. Dickson, of the University of Chicago, will speak on Wednesday at 10:45 A.M., his subject being "Waring's Problem and its Generalizations." Professor G. H. Hardy, of the University of Cambridge, will deliver on Thursday morning at 9:30 an address on "The Mathematical Work of Ramanujan." Professor Tullio Levi-Civita, of the University of Rome, will deliver at the Friday morning session at 9:30 an address entitled "The Relativistic Problem of Several Bodies."

At a joint meeting of a section of the society with the Association for Symbolic Logic on Tuesday at 10:45 A.M. in Emerson Hall, Room 211, Professor Rudolf Carnap, of the Deutsche Universität, Prague, will speak, his topic being "Truth in Mathematics and Logic." Friday afternoon at 2:30 in the Lecture Hall there will be a joint session of the society and the American Astronomical Society, the subject being "Cosmogony." Professor Levi-Civita will give an address on "Astronomical Consequences of the Relativistic Problem of Two Bodies," and Sir A. S. Eddington, of the University of Cambridge, will speak on "The Cosmical Constant of and the Recession of the Nebulae." These addresses will be followed by discussion.

The Colloquium Lectures of the American Mathematical Society on "Topics in General Analysis" will be delivered by Professor E. W. Chittenden, of the University of Iowa, on Tuesday, Wednesday and Friday mornings, and on Thursday afternoon in Emerson Hall. Each lecture will be scheduled for approximately one hour. A fee of two dollars will be charged for attendance at any or all of these lectures. By invitation of the society, Professor G. C. Evans, of the University of California, will give at the Saturday morning general session in Emerson Hall D an address entitled "Methods of Modern Analysis in Potential Theory." In addition to those mentioned above, the