

ner of the section with the Societies of Phi Delta Kappa and Kappa Delta Pi is planned for Tuesday evening. A brief program will follow the dinner, devoted to studies in administrative and supervisory research. At the Tuesday afternoon session the retiring vice-president for Section Q, Dr. Frank N. Freeman (of the University of Chicago), will present an address. The topics for the other sessions are: "Research in Elementary Education," Monday morning; "Research in Secondary and Collegiate Education," Monday afternoon; "Research in Social Studies and other Problems of Character Training," Tuesday morning; "Investigations in the Teaching of Science," Wednesday morning.

PROGRAMS RELATED TO SCIENCE IN GENERAL.—The Society of the Sigma Xi is to hold on Tuesday afternoon a business meeting beginning at 4 o'clock. The annual dinner will occur Tuesday at 6:30 and the

ninth annual Sigma Xi lecture will be given at the general session Tuesday evening, by Dr. C. E. Kenneth Mees, director of research of the Eastman Kodak Company. Tickets for the dinner may be secured, before Tuesday noon, at the general registration offices in the gymnasium of Western Reserve University. The American Nature-Study Society plans to hold sessions on nature-study problems of various kinds, especially nature education. A dinner of the society is planned. The Gamma Alpha Scientific Fraternity will hold its council meeting on Tuesday afternoon and a breakfast on Wednesday morning. A proposed revision of the constitution will be considered. Sigma Delta Epsilon, Graduate Women's Scientific Organization, will have two breakfast meetings, with interesting talks. The Tuesday breakfast will be for all women visitors, while the meeting on Wednesday will be specially for members of the organization.

SCIENTIFIC EVENTS

THE BRITISH FRESHWATER BIOLOGICAL STATION

ACCORDING to an article in the *London Times* the Freshwater Biological Association of the British Empire was founded in the early part of this year with the object of securing the establishment of a freshwater laboratory to prosecute research into the problems of freshwater biology. Although the movement originated among the professional biologists of Great Britain, it has secured the support of the leading scientific societies and of a large proportion of the economic bodies interested in river pollution, freshwater fisheries, and the like.

The conference convened by the council of the association at Fishmongers' Hall on February 21 last afforded evidence of the interest displayed and showed that there is a real and widely felt need for a freshwater research station. Promises of financial support in the form of annual grants have been received from many sources. They are conditional upon the actual founding of the station as a research center. The council are now making an appeal for contributions to a fund for the establishment and initial equipment of the station, and several hundred pounds have already been promised.

It is hoped that all who are interested in fresh waters, such as public bodies responsible for water supply, medical officers of health, water and sanitary engineers, fishermen and naturalists, will realize the importance of the projected station and will be prepared to help by contributing to the fund. Contributions of any amount, large or small, will be welcomed.

The council have prepared a pamphlet giving an outline of the aims of freshwater biology in the British Isles, which includes a scheme of work and plans for the projected station. This pamphlet, as well as the report of the conference at Fishmongers' Hall, can be obtained on application to the acting secretary, Professor F. Balfour Browne, Wincombe Court, Wincombe, Somerset.

CELEBRATION OF THE TWENTY-FIFTH ANNIVERSARY OF THE THEORY OF RELATIVITY

ON November 10, the University of Colorado celebrated the twenty-fifth anniversary of the theory of relativity. It was on September 26, 1905, that Professor Einstein's first paper on relativity entitled, "Zur Elektrodynamik Bewegter Körper," appeared in the *Annalen der Physik*. As far as is known, this was the second celebration honoring the famous physicist, the first being that of the Royal Society in London some time ago.

The celebration opened with a banquet in the Memorial Union Building with places set for one hundred and seventy persons, consisting of students, faculty, townspeople and delegations from the Colorado School of Mines, Colorado State Teachers' College and the Colorado Agricultural College. At the dinner Dr. Junius F. Brown, of the department of psychology, gave reminiscences of Professor Einstein as he knew him in the seminar in Berlin last year.

After the dinner addresses were given by various members of the faculty. Dean O. C. Lester, of the Graduate School, spoke on "The Changed Outlook on

Physical Theories"; Dr. V. P. Lubovich, assistant professor of physics, spoke on "Does the Inertia of a Body Depend upon its Energy Content?"; Dr. Walter B. Veazie, of the department of philosophy, discussed "Relativity and Philosophy," and Dr. Frank E. E. Germann, professor of chemistry, spoke on "Chemistry and Relativity."

During the program, a painting of Dr. Einstein by Miss Virginia True, of the art department, was unveiled. An informal hour followed in the banquet room, where fifteen posters hanging on the walls representing "practical" applications of Einstein's theory of relativity were studied. A letter of congratulation, signed by those at the dinner, was sent to Professor Einstein.

FRANK E. E. GERMANN

JOINT MEETING AT LOS ANGELES OF THE AMERICAN PHYSICAL SOCIETY AND OF THE ACOUSTICAL SOCIETY OF AMERICA

A JOINT meeting of the American Physical Society and the Acoustical Society of America will be held on the campus of the University of California at Los Angeles on December 12 and 13. Dr. Vern O. Knudsen, associate professor of physics, is in charge of arrangements for the meeting. More than two hundred delegates from various parts of America are expected to attend.

According to preliminary plans, there will be one joint session of the two organizations. At this session it is planned that six papers will be presented, including three papers by members of each association. In addition there will be a symposium on the recording and reproducing of sound in talking moving pictures, and also a symposium on atmosphere acoustics and sound signaling. An inspection tour of the talking-picture studios is also planned for the visitors.

Professor Leonard B. Loeb, of the University of California, Pacific Coast secretary of the American Physical Society, is in charge of the arrangements for his organization. Other officers of this society include Dr. Henry G. Gale, University of Chicago, *president*; Dr. W. F. G. Swann, Bartol Research Foundation, Philadelphia, *vice-president*; Dr. W. L. Severinghaus, Columbia University, *secretary*; Dr. G. B. Pegram, Columbia University, *treasurer*, and Dr. John A. Tate, of the University of Minnesota.

Officers of the Acoustical Society of America include Dr. Harvey Fletcher, of the Bell Telephone Laboratory of New York, *president*; Dr. Vern O. Knudsen, of the University of California at Los Angeles, *vice-president*; Wallace Waterfall, of Chicago, *secretary*, and Dr. E. E. Free, of New York, *treasurer*.

SCIENTIFIC NOTES AND NEWS

THE awards of royal and other medals by the Royal Society, London, have been announced as follows: A Royal Medal to Professor O. W. Richardson, F.R.S., for his work on thermionics and spectroscopy. A Royal Medal to Professor J. E. Marr, F.R.S., for his pioneer work in the accurate zoning of the Paleozoic rocks. The Copley Medal to Sir William Bragg, K.B.E., F.R.S., for his contributions to crystallography and radioactivity. The Rumford Medal to Professor Peter Debye, of Leipzig, for his work relating to specific heats and X-ray spectroscopy. The Davy Medal to Professor R. Robinson, F.R.S., for his work on the constitution and synthesis of natural products, and for his contributions to the theory of original reactions. The Darwin Medal to Professor Johannes Schmidt, of Copenhagen, for his extended oceanographical expeditions and his genetic studies on animals and plants. The Hughes Medal to Sir C. V. Raman, F.R.S., of Calcutta, for his work on the abnormal scattering of light. The following is a list of those recommended by the president and council for election at the anniversary meeting on December 1: Sir F. Gowland Hopkins, *president*; Sir Henry Lyons, *treasurer*; Dr. H. H. Dale and Dr. F. E.

Smith, *secretaries*; Lord Rayleigh, *foreign secretary*. Other members of the council: Professor E. V. Appleton, Professor G. Barger, Professor A. E. Boycott, Professor E. P. Cathcart, Sir Alfred Ewing, Professor E. S. Goodrich, Professor G. H. Hardy, Sir Harold Hartley, Sir Thomas Lewis, Dr. W. H. Mills, Professor E. A. Milne, Dr. A. B. Rendle, Professor R. V. Southwell, Professor G. I. Taylor, Professor D. M. S. Watson and Professor W. W. Watts.

ON November 18 a tribute from Germany was brought to Mr. Thomas A. Edison by Dr. Heinrich Jebens, president of the German Association of Inventors, who came to Mr. Edison's laboratory at Menlo Park. The certificate reads: "To the great master of technical development, the benefactor of humanity and the outstanding example for the inventors of the entire world, Mr. Thomas Alva Edison, we herewith tender an honorary membership in the German Association of Inventors."

DR. ALAN GREGG has been appointed director for the medical sciences of the Rockefeller Foundation. He will occupy the position vacated by the death on February 16 of Dr. Richard M. Pearce, Jr., in whose