

dition to the fields covered previously, special emphasis is to be laid on applications of the spectroscope to investigations in biology and medicine. It is believed by those sponsoring the conference that the rapid strides being made in certain fields through the use of the spectroscope, and the growing certainty of important borderline investigations which will be developed in increasing number when knowledge of the power of spectroscopic methods of analysis becomes more wide-spread, insure the success of any meeting held for the discussion of such topics. The object of the conference is to promote understanding and cooperation between spectroscopists and investigators in fields in which the spectroscope is useful, and it is expected that the papers and discussions to be presented will be prepared with this in mind, and will be of general interest.

A program of papers and discussions is being prepared among others on the following topics:

"Absorption Spectrophotometry: Application of Absorption Measurements to Analysis of Organic and Inorganic Substances and to the Diagnosis and Treatment of Disease."

"Analysis by the Emission Spectrum: Determination of Metallic and Other Atomic and Molecular Constituents of Samples by Study of Their Emission Spectrum, with Special Emphasis on Quantitative Analysis."

"The Biological and Chemical Effects of Spectral Radiation."

"Spectroscopy of the Ultra-violet and Infra-red."

"Analysis of Spectra, and Measurement of Wavelength."

It is anticipated that the earlier sessions of the week will be of especial interest to biologists, medical research workers and chemists. The main emphasis will then shift to subjects of chief interest to the industrialist and engineer, the geologist and the metallurgist. The latter part of the week will be devoted to the more theoretical problems of the spectroscopist. The meetings will be open to any one interested and copies of the detailed program will be sent on request.

The institute is also announcing a special program of summer courses on "Spectroscopy and its Applications" to be given during the six weeks preceding the conference, which will deal primarily with applications of spectroscopy to biology, chemistry, geology, metallurgy and mineralogy. Arrangements are being made so that thesis students in other institutions who are working in these fields on problems, portions of which would be facilitated by the use of spectroscopic technique, may carry on this part of the work at the laboratories of the institute during the early summer. Further information can be obtained from Professor G. R. Harrison, of the department of physics.

THE TORONTO MEETING OF THE AMERICAN ASSOCIATION OF MUSEUMS

THE Toronto meeting of the American Association of Museums will be held for three days beginning on May 30. According to *The Museum News*, the British Museums Association has named a strong delegation, including officers of the association and representatives of the British Museum and several provincial museums. There will be many delegates from Canadian museums, and a new record attendance from the United States is indicated by the nearness of Toronto to our own middle-western and eastern cities.

The delegation from overseas is to be as follows: J. W. Baggaley, Museum and Art Gallery, Sheffield; Marian Frost, Museum and Art Gallery, Worthing; S. F. Markham, Empire secretary of the Museums Association; H. W. Maxwell, Museum and Art Gallery, Bristol; W. A. Smalleombe, Museum and Art Gallery, Reading; W. E. Swinton, British Museum (Natural History), London; E. W. Wignall, secretary of the Museums Association.

Plans being made for the stay in Toronto of those attending the meeting will give opportunity for economical hotel arrangements. Expenses of travel to the meeting will also be moderate this year. The railroad fare to Toronto from New York City is only \$2 more than the fare to Buffalo, and the fare from Chicago to Toronto is about half of that from Chicago to New York or Philadelphia. Summer railroad rates will be in effect at the time of the meeting, with round-trip rates almost as low as winter one-way rates.

RECENT DEATHS

MAJOR GENERAL GEORGE O. SQUIER, U. S. A. (retired), chief signal officer of the Army, from 1916 to 1918 in charge of the Army air service, died on March 24. He was sixty-nine years old.

DR. HENRY W. UNDERWOOD, JR., assistant professor of chemistry at the Massachusetts Institute of Technology, died on March 20. He was thirty-eight years old, and had been a member of the staff since 1920.

EDWARD H. FARRINGTON, professor of dairy husbandry at the University of Wisconsin from 1894 to 1927, when he retired with the title of professor emeritus, died on March 22 at the age of seventy-three years.

DR. JOHN M. POOR, professor of astronomy at Dartmouth College, has died at the age of sixty-three years.

THE death is announced in his eighty-third year of Ruthven Deane, of Chicago, known for his work in ornithology.