

Canadian and American governments have arrived at St. Andrews and are preparing to institute work immediately. The object of the investigation will be to study the probable effect of the international development to generate electric power from the movement of tides in Passamaquoddy Bay and in Cobscook Bay on the fisheries of that region.

A joint meeting of the International Passamaquoddy Fisheries Commission and the advisory committee took place at the Atlantic Biological Station on July 10 at which the program was considered.

President Hoover has appointed Mr. Henry O'Malley, commissioner of fisheries, and Mr. O. E. Sette, in charge of the North Atlantic fishery investigations, as United States commissioners to conduct the investigation. The Honorable W. A. Found, deputy minister of fisheries, and Professor A. G. Huntsman, of the Biological Board of Canada, have been appointed to represent Canada in this investigation.

At a meeting of the commission in Montreal on June 8, to consider arrangements for starting the investigation, Mr. Found was chosen chairman of the commission, and it was decided that four experienced investigators should be selected to conduct investigations on zooplankton, phytoplankton, oceanic chemistry, and physical oceanography and fisheries. Dr. Charles J. Fish, director of the Museum of Science, Buffalo, New York, was selected biologist in charge of zooplankton and executive secretary to the investigative staff. Through the courtesy of the Buffalo Museum, Dr. Fish has been granted leave of absence for this work, and he is now engaged in organizing the investigation and securing subordinate personnel. Dr. E. E. Watson, of Queens University, Kingston, Ontario, a hydrographer with previous experience in local waters, has been appointed to take charge of the investigation in physical oceanography. Headquarters have been established at the Atlantic Biological Station at St. Andrews, New Brunswick.

The commission, and its investigative staff, has the assistance of an advisory committee, which consists of two competent scientific representatives from each country. Professor F. R. Hayes, of the zoological department of Dalhousie University, and Dr. A. W. H. Needler, in charge of the oyster investigations for the biological board, represent Canada. Dr. H. B. Bigelow, director of the Woods Hole Oceanographic Institution, and Professor A. E. Parr, curator of the Bingham Oceanographic Collection, Yale University, represent the United States.

Conclusions have previously been reached that the soundest basis for forecasting the probable effects of the dam upon the fisheries of this region would likely be investigations along the following lines:

(1) Detailed study of the occurrence of the herring in relation to various environmental conditions as an indication of how its availability in the fishery might be affected by the construction of the dams.

(2) The study of the abundance of phytoplankton and zooplankton (as a basis of fish life) in relation to the physical and chemical states of the water in the Bay of Fundy and along the coast of Maine.

(3) Detailed examination of existing hydrographic conditions as indicating the relative importance of the water-mixing at the mouth of the Passamaquoddy Bay as determining the physical and chemical states of the water in the Bay of Fundy and along the coast of Maine.

Two vessels have been loaned for use by the commission. The *Prince*, which in the past has been utilized by the Biological Board of Canada at St. Andrews, has been assigned to the new investigation and at the present time is being outfitted. The second vessel, the *Pelican*, recently constructed for the U. S. Bureau of Fisheries, will shortly leave Boothbay Harbor, Maine, and is expected to arrive in about a week's time. Active field work will for the time being be carried on by Dr. Fish and Dr. Watson. It is expected that additional members of the scientific staff will be announced later.

#### THE FARADAY CELEBRATION

THE celebration of the hundredth anniversary of the discovery of electro-magnetic induction by Michael Faraday will take place from September 21 to 23 at the Royal Institution of Great Britain where the experiment was made that has transformed our civilization.

Arrangements are being made for the welcome and entertainment of the delegates and guests beginning on Saturday, September 19. Officers of the Royal Institution, with interpreters and guides, will be in attendance to welcome arriving delegates and guests, and to afford any help that may be required. Ladies accompanying delegates and guests will be welcomed and entertained by members of a Ladies' Committee which has been formed for the purpose. Visits to places of interest have been arranged on each day of the celebration. By the courtesy of the general officers of the British Association for the Advancement of Science, delegates and foreign guests at the Faraday celebrations who are not already members of the association will receive complimentary tickets for its centenary meeting.

On Monday, September 21, there will be an informal meeting in the lecture theater of the Royal Institution where a statement regarding the program in English, French and German will be made. In the afternoon a reception for the delegates will be held in the lecture theater by the president and managers of the institution. A Faraday commemorative meet-

ing will take place at the Queen's Hall, Langham Place, in the evening, when short speeches will be made by distinguished representatives of institutions in various parts of the world. Music will be rendered by the Symphony Orchestra of the British Broadcasting Corporation, under the direction of Sir Henry Wood, and the proceedings will be broadcast. On Tuesday morning, September 22, there will be a conference at Kingsway Hall, at the Institution of Electrical Engineers. A *conversazione* will be held at the Royal Institution and at the Institution of Electrical Engineers at the Royal Albert Hall in the evening.

A private view of the Faraday Exhibition at the Royal Albert Hall will be extended to delegates and visitors on Wednesday morning, September 23. There will be a garden party at the National Physical Laboratory, by invitation of the director, Sir Joseph Tetavel, on September 24. The British Association Centenary Meeting will include a reception of British Association delegates in the Royal Albert Hall. The Faraday Exhibition will be opened to the public by the president of the British Association, the Right Honorable J. C. Smuts, later in the afternoon. In the evening the presidential address to the British Association will be given by General Smuts, at the Central Hall, in Westminster.

#### THE JOSEPH HENRY LECTURESHIP OF THE PHILOSOPHICAL SOCIETY OF WASHINGTON

THE Philosophical Society of Washington, through its General Committee, has decided to establish a lectureship in honor of its first president, Joseph Henry. Such action at this time is particularly appropriate, since 1931 is the centenary of the discovery of electromagnetic induction, a discovery which has brought honor not only to Henry, but also to Faraday. The purpose and scope of the lectureship can best be shown by quoting the report of the special committee which was adopted by the General Committee:

(1) There is at present in the hands of the treasurer a cash balance . . . and the committee is in agreement

that . . . a portion of it be spent . . . in some way which will advance the cause of science and reflect credit on the society.

(2) It is proposed that at suitable intervals of time a speaker be selected to address the society on one of the broad aspects of some field of science, the speaker to review the recent developments or present status of a subject included in or related to the physical sciences.

(3) It is further proposed that the complete address be put in form for publication and submitted to the *Journal* of the Washington Academy of Sciences.

(4) It is further proposed that the aforementioned address shall be called the Joseph Henry Lecture in memory of the first president of the Philosophical Society.

(5) It is further proposed that the first Joseph Henry Lecture be delivered before the society in the fall of 1931, and that thereafter the lecture shall be delivered annually before the society in the spring of the year starting in the spring of 1932.

(6) It is further proposed that the expenses of the speaker incidental to a visit to Washington shall be borne by the society and that in addition an honorarium of one hundred dollars (\$100) shall be presented to the lecturer at a suitable time during his visit.

(7) The complete arrangements for any one meeting are to be made by a special committee of three who are to be responsible for selecting the speaker and securing the manuscript in form for publication. No member of the committee should have been a member of the immediately preceding similar committee.

The general committee further provided that the special committee for a given year shall be appointed before October 15 of the preceding year. In accordance with this action, the following committees have been appointed:

For the year 1931: C. G. Abbot, L. H. Adams, *chairman*, R. E. Gibson. For the year 1932: L. J. Briggs, *chairman*, J. H. Taylor, F. E. Wright.

H. L. CURTIS,  
*President*

L. V. JUDSON,  
*Corresponding Secretary*

## SCIENTIFIC NOTES AND NEWS

ON the occasion of the centenary meeting of the British Association, which will be held in London in September, the senate of the University of London has decided to confer the degree of doctor of science *honoris causa* on the president, General J. C. Smuts, on Professor Sir F. Gowland Hopkins, president of the Royal Society, and on three former presidents of the Royal Society, Lord Rutherford, Sir Charles Scott Sherrington and Sir Joseph J. Thomson.

THE *Journal* of the American Medical Association

states that plans are under way to ask Americans to contribute to a million shilling fund recently started in England as a tribute to Sir Ronald Ross, discoverer of the rôle of the mosquito in the transmission of malaria. Dr. Robert L. Pitfield, Philadelphia, is secretary of the Ross Award Fund of America and will receive checks at his address, 5211 Wayne Avenue, Germantown, Pennsylvania. In addition to Dr. Pitfield, American trustees of the fund are Drs. Thomas McCrae, Joseph McFarland, Francis R. Packard,