

THE CORNELL UNIVERSITY ENTOMOLOGICAL
EXPEDITION TO SOUTH AMERICA
OF 1919-20

UNDER the leadership of Professor J. Chester Bradley the Cornell University Entomological Expedition to South America of 1919-20 is carrying on entomological investigation and making collections in various South American countries.

Dr. Bradley sailed for Brazil early in September last on the steamship *Vestris*; owing to a fire developing in one of the holds of the steamer, a delay of thirteen days occurred at the Island of Santa Lucia, where interesting and unexpected collecting was done. At Rio de Janeiro he was joined by a volunteer assistant, Mr. R. Gordon Harris.

After spending some time in Rio de Janeiro, a trip was made in company with Brazil's foremost entomologist, Dr. Adolph Lutz, to the State of Minas Geraes in the north, as far as to Pirapora, the head of navigation on the Sao Francisco River; some days were spent at Lassance on the Rio das Velhas as guests of the Institute Oswaldo Cruz. It was at this place that Dr. Chagas first worked out the details of the transmission by a Redwing bug (*Conorhinus*) of a trypanosome causing a very serious endemic disease of the region. Some days were also spent on the alpine meadows at Diamantina, Brazil's highest city, and also as guests of the State of Minas Geraes at the Capital, Beldo Horizonte.

Returning to Rio de Janeiro, the party proceeded to cross the States of São Paulo and Matto Grossa by sail to Corumba on the Paraguay River, and thence to Urucum. Interesting collecting was encountered at various points along this trip, but especially at Urucum, 20 kilometers from Corumba, on an isolated mountain range at an elevation of 2,200 feet, at the upper limit of a tropical forest. Here, despite continuous rainy weather, a very interesting and abundant fauna was encountered.

From Corumba they proceeded by rail via São Paulo to Uruguayana on the Uruguay River, at the Argentinean frontier, a distance of 2,500 miles; from there they were about to

proceed, when last heard from, to the Falls of the Iguazu on the Alta Parana River.

The plans of the party contemplate spending a brief while in Argentina, at Buenos Aires, La Plata, Cordoba, Mendoza and possibly Tucuman, a visit to Montevideo, and then to spend from six weeks to two months in Chile, visiting several places, to as far south as Chiloe Island; thence to Oruro, Cochabamba and La Paz in Bolivia, and to Lima in Peru.

At Lima Dr. W. T. M. Forbes and Jesse Williamson will join the expedition, which will, if conditions prove favorable, cross the Andes via the central route and down the Pichis, Pachitea, Ucayalli and Marañon Rivers to Iquitos; stopping at favorable points on the eastern side of the Andes. The party will return to New York in September next.

The expedition is entrusted with the delivery of extensive collections of North American insects and of vertebrates to four scientific institutions in South America. While not neglecting general collecting, Dr. Bradley is devoting especial attention to the collection of Hymenoptera, especially of the aculeates, and is endeavoring to obtain series of nests of Vespidae with their inhabitants. Mr. Harris is doing general collecting of insects. Dr. Forbes will devote his attention primarily to Lepidoptera, and relieve the other members of the necessity of devoting attention to this time-exacting group after he joins the expedition. Mr. Williamson will collect Odonata.

ST. LOUIS MEETING OF THE AMERICAN
CHEMICAL SOCIETY

THE spring meeting of the American Chemical Society will be held with the St. Louis and University of Missouri Sections in St. Louis, April 13 to 16, inclusive. Every indication points to the fact that the meeting will be one of the largest and most interesting ever held in the West by the American Chemical Society. St. Louis is the center of the rapidly growing Middle West and contains large and varied chemical interests. It has always been the leading drug center of the West, and leads the country in the production

of synthetic pharmaceuticals, alkaloids, and anaesthetics. St. Louis possesses all the units of a balanced, self-sufficient chemical industry. It is a center for ceramics, glass, paint, lead and zinc manufacture. The following excursions are planned: Laclede By-Products Coke Plant; Monsanto Chemical Works, East St. Louis plant; Laclede-Christy Clay Products plant; Standard Oil Refinery, Wood River, Ill.; and Illinois Glass Company, Alton, Ill.

The general program is as follows:

Tuesday, April 13

10 A.M.—General meeting, Hotel Statler.

Address of welcome, Honorable Henry W. Kiel, mayor of St. Louis.

Response, Dr. W. A. Noyes, president, American Chemical Society.

Address, Honorable E. P. Costigan, tariff commissioner, "Chemical industry and legislation."

Address, Dr. Chas. H. Herty, editor, "Victory and its responsibilities."

2 P.M.—Hotel Statler, general meeting.

J. H. Hildebrand, "The prediction of solubility."

Victor Lenher, "Selenium oxychloride a neglected inorganic solvent."

E. T. Wherry, "Studying plant distribution with hydrogen ion indicators."

Three additional general papers to be announced.

8 P.M.—Missouri Athletic Association. Smoker for men.

8 P.M.—Theater party for ladies.

Wednesday, April 14

9 A.M.—Hotel Statler, divisional meetings.

2 P.M.—Excursions to Laclede Gas Works, Monsanto Chemical Works, East St. Louis plant, and Laclede-Christy Clay Products plant. Automobile tour for ladies to parks, Art Museum, Washington University, Missouri Botanical Garden and tea at Bevo Mill.

8 P.M.—Central High School. Public address. Speaker and subject will appear in final program.

Thursday, April 15

9 A.M.—Hotel Statler, divisional meetings.

2 P.M.—Hotel Statler, divisional meetings.

8 P.M.—Hotel Statler, subscription banquet.

Friday, April 16

9 A.M.—Excursion to Standard Oil Refinery, Wood River, Ill., and Illinois Glass Company, Alton, Ill.

The Division of Industrial and Engineering Chemistry will hold a symposium on Cellulose Chemistry, this symposium having been organized by Mr. Jasper E. Crane, and will devote the remainder of its program to general papers.

A Section of Leather Chemistry has been authorized to establish a forum for the discussion of the chemistry of leather manufacture and other closely allied industries.

A Section of Sugar Chemistry will also meet for the first time in St. Louis, under the chairmanship of C. A. Browne, with Frederick J. Bates, of the Bureau of Standards, as secretary.

The Division of Physical and Inorganic Chemistry will give a half day to a "Colloid Symposium."

Papers are promised by Col. W. D. Bancroft, Albert V. Bleining, Martin H. Fischer, and John Arthur Wilson.

Members who are to read papers having a popular appeal are requested to send synopses of them for the use of the A. C. S. News Service, care of American Chemical Society, 35 E. Forty-first St., New York City. A short abstract (about 100 words) should be sent with the title of papers or handed to the secretary of the division at the time of presentation, so that it may appear in SCIENCE.

The final program will be sent about April 5 to all members signifying their intention of attending the meeting, to the secretaries of sections, to the council, to members of the St. Louis and University of Missouri Sections.

CHARLES L. PARSONS,
Secretary

THE UNITED STATES FOREST SERVICE

SECRETARY MEREDITH has selected Colonel W. B. Greeley, assistant forester in the Forest Service, for chief forester to succeed Colonel Henry S. Graves, on the latter's retirement on May 1. Colonel Greeley is a graduate of the University of California and the Yale Forest