

results could be reconciled. As to the findings of Miller he said that the preliminary results were in complete contradiction to the relativity theory as proposed by Einstein and if finally established they would mean the end of relativity in that form.

Professor Naguoka gave an account of his experiments on the transmutation of mercury into gold. He had used differences of potential of 200,000 and believed he had obtained particles of gold that were not in the mercury employed in his experiments as it had been 2-3 times distilled and subjected to careful chemical analysis. He expressed the desire that confirmation of his experiments be undertaken by other physicists.

SCIENTIFIC MEN AND THE DEFENSE OF MR. SCOPES

AN important part of the plans of the defense counsel in the case of State of Tennessee versus John T. Scopes, recently convicted of a violation of the Tennessee anti-evolution law, was the presentation of scientific evidence upholding the facts of evolution.

An attempt was made to obtain competent and well-known scientists in various branches to come to Dayton and testify in behalf of Mr. Scopes. Although the scientists were asked to serve without compensation other than their actual expenses, the response was gratifying. Due to the fact that the judge ruled that the scientists could not be placed upon the witness stand and that their testimony should only be submitted in written form for the consideration of the higher courts in the event of appeal, not all the scientists who would have been summoned in the event of direct testimony were asked to come to Dayton. Following is a list of those who actually came to Dayton: Dr. Charles H. Judd, University of Chicago; Professor William A. Kepner, University of Virginia; Dr. Jacob G. Lipman, director Agricultural Experiment Station, New Brunswick, N. J.; Dr. Fay-Cooper Cole, University of Chicago; Wilbur A. Nelson, state geologist, Nashville, Tenn.; Dr. Maynard M. Metcalf, Oberlin College and Johns Hopkins University; Dr. Winterton C. Curtis, University of Missouri; Dr. W. M. Goldsmith, Southwestern University, Winfield, Kans.; Dr. H. H. Newman, University of Chicago; Dr. Kirtley F. Mather, Harvard Geological Museum, Cambridge, Mass.; Dr. Frank Thone, Science Service; Watson Davis, Science Service.

Among those who had signified their willingness to come upon call of the defense counsel were: Dr. E. E. Reinke, Vanderbilt University, Nashville, Tenn.; Dr. Charles T. Oliver, McCormick Observatory, Charlottesville, Va.; Dr. Elmer Roberts, University of Illinois; Dr. Avery E. Lambert, University of Ala-

bama School of Medicine; Dr. Ellsworth Faris, University of Chicago; Dr. R. T. Chamberlin, University of Chicago; Dr. David White, National Research Council; Dr. Anton J. Carlson, University of Chicago; Professor Charles A. Shull, University of Chicago; Dr. Homer N. Calver, American Public Health Association; Professor W. N. Rice, Wesleyan University, Middletown, Conn.; Professor Edward L. Rice, Ohio Wesleyan, Delaware, Ohio; Professor W. J. MacNeal, New York Post-Graduate Medical School; Professor Arthur McQ. Miller, University of Kentucky; Professor L. F. Rettger, Yale University; Dr. Shailer Mathews, University of Chicago.

Although the legal counsel for the defense, which consisted of Clarence Darrow, Dudley Field Malone, Arthur Garfield Hays, John R. Neal, were not technically trained in science, they won the admiration and confidence of the scientists who worked with them and they deserve the thanks of those working in science for their interest in protecting the right to teach the facts of biology. Dr. G. W. Rappleyea, manager of the Cumberland Iron and Coal Co., who instigated the test case against Mr. Scopes, also won the friendship and respect of the scientific witnesses and he deserves credit for having inaugurated and carried through the anti-evolution test case at Dayton.

WATSON DAVIS

SCIENCE SERVICE,
WASHINGTON, D. C.

SCIENTIFIC NOTES AND NEWS

PROFESSOR W. M. DAVIS, emeritus professor of geology at Harvard University, and Dr. G. Holm, of the Geological Survey of Sweden, have been elected foreign members of the Geological Society, London. Dr. T. W. Vaughan, director of the Scripps Institution; Professor P. Lemoine, professor of geology in the National Museum of Natural History, Paris; Dr. V. Madsen, of the Royal Library, Copenhagen; Professor P. Niggli, professor of mineralogy and petrography in the University of Zurich; Professor J. F. Pompeckj, professor of geology in the University of Berlin, and Dr. M. D. Zalesky, Leningrad, have been elected foreign correspondents.

THE University of South Carolina has conferred upon William Chambers Coker, Kenan professor of botany in the University of North Carolina, the honorary degree of LL.D.

WE learn from *Nature* that at the meeting of the Royal Society of Edinburgh held on July 6, the Macdougall Brisbane Prize for the period 1922-1924 was presented by the president to Professor H. Stanley Allen, professor of natural philosophy in the Univer-

sity of St. Andrews, for his investigations in theoretical physics, particularly for his communication to this society on the magnetic character of the quantum, and on static molecular models of hydrogen and helium.

THE Chalmers Memorial Gold Medal was presented at the recent annual general meeting of the Royal Society of Tropical Medicine to Professor Warrington Yorke, professor of parasitology in the University of Liverpool and Liverpool School of Tropical Medicine, in recognition of his work on trypanosomiasis, malaria and other subjects.

DR. WILLIAM T. HORNADAY, of the New York Zoological Society, has received the gold medal of honor that was awarded to him recently by the International Congress for the Study and Protection of Birds.

MRS. HELEN S. WRIGHT, of Pittsfield, Mass., has been elected to a fellowship in the Royal Geographic Society of London for her writings on Arctic and Antarctic exploration and history.

IN connection with the visit of the British Medical Association to Bath a congregation of the University of Bristol was held on July 22, when the degree of LL.D. was conferred upon Sir Humphry Rolleston, president of the Royal College of Physicians, of London, and Sir Berkeley Moynihan, the distinguished abdominal surgeon, of Leeds.

THE President of Ecuador has conferred the decoration "Al Mérito," of the first class, on Wilson Popenoe, of the U. S. Department of Agriculture, in recognition of his services to Ecuadorian agriculture.

DR. DE SITTER, of the University of Leiden, has been elected president of the International Astronomical Union in place of Dr. Campbell, the retiring president. The vice-presidents who now take office are Professor Cerulli, of Rome; Dr. Deslandres, of Paris; Professor Eddington, of Cambridge; Professor Shin Hirayama, of Tokyo, and Professor Schlesinger, of Yale University.

PROFESSOR F. G. DONNAN, professor of inorganic and physical chemistry at the University of London, has been elected president of the Faraday Society, England.

AT the recent meeting in San Francisco, Mr. James E. Davidson, vice-president and general manager of the Nebraska Power Co., was elected president of the National Electric Light Association.

A COMMITTEE consisting of nine men prominent in the Nebraska Power Co., was elected president of Burdick, Mr. H. E. Howe, Dr. Chas. H. Herty, Mr. Henry Howard, Mr. G. Ober, Mr. E. T. Trigg, Mr.

A. Cressy Morrison and Mr. S. W. Wilder, has been asked to serve as an advisory committee to the Department of Commerce. The function of the committee is to advise the chemical division of the department as to the proper lines of endeavor for them to undertake.

C. E. SIMS, electrometallurgist, has been designated as chief of the metallurgical section at the Pittsburgh, Pa., experiment station of the Bureau of Mines, and in this capacity will have technical supervision of all metallurgical work conducted at that station.

DR. CARLETON HENNINGSEN has resigned his position with the Forest Products Laboratory of the U. S. Forest Service to join the Du Pont Fibersilk Company of Buffalo, New York, as chemist.

SIR RICHARD REDMAYNE, formerly chairman of the Imperial Mineral Resources Bureau, England, which has recently been amalgamated with the Imperial Institute, South Kensington, has been appointed director of the Imperial Institute.

THE yacht *Arcturus*, bearing the oceanographic expedition of the New York Zoological Society, with William Beebe, the naturalist, in charge, returned to New York on July 30. The expedition brought back a collection of rare fish and other sea animals. Most of the specimens were secured in the vicinity of the Galapagos Islands in the Pacific.

THE first three Harvard University students to go to the Harvard Biological Laboratory, Soledad, Cuba, under the Atkins's fellowships, J. G. Myers, George Salt and J. A. Dawson, have returned. They report good collecting and found the facilities of the new laboratory excellent. Mr. Myers worked on Cuban Hemiptera, Mr. Salt on the Hymenoptera and on Sugar Cane Borers and Dr. Dawson on Cuban Protozoa.

OTTO DEGENER, who has been spending the year at the New York Botanical Garden, studying his collections of Hawaiian plants, is returning to Honolulu.

PROFESSOR WILLIAM H. HOBBS, of the University of Michigan, is spending the summer in Europe. In September he will join Dr. Lange Koch at Copenhagen and assist in planning the scientific work of the new Danish Expedition to Greenland, which is expected to leave in the spring of 1926.

FREDERICK G. CLAPP, New York, has been studying the geological features of the eastern coast of North Island of New Zealand.

Nature states that Professor R. Ruggles Gates, professor of botany at the University of London (King's College), sailed from Liverpool on July 14, on an expedition to the Amazon region. He planned to leave

the ship at Manóos and spend a month collecting plant materials in that region and farther down the river. Returning from Para, he will reach England early in October.

A PARTY of German scientists, headed by Dr. Merz, has arrived at Cape Town in the survey ship *Meteor*, which left Wilhelmshaven on April 16 for a two years' deep sea research cruise in the Atlantic Ocean.

THE Lane Medical Lectures at Stanford University for 1925, which are to be delivered by Professor Vittorio Putti, director of the Rizzoli Institute, Bologna, Italy, will be held at Lane Hall, Stanford Medical School, San Francisco, from October 5 to 9. The subjects for these lectures are as follows: "Congenital dislocation of the hip," "Arthroplasty: History and general considerations," "Arthroplasty: Technique," "New conceptions of the pathogenesis of sciatic pain," "The University of Bologna in the history of medicine."

LUCIUS ELMER SAYRE, dean of the School of Pharmacy of the University of Kansas and formerly president of the American Pharmaceutical Association, died on June 21, aged seventy-one years.

DR. F. E. BEDDARD, F.R.S., zoologist and author, who was for many years prosector to the Zoological Society of London, died on July 14, at the age of sixty-seven years.

DR. ADOLF LAZARUS, professor of internal medicine at the University of Berlin, who collaborated in some of the important researches of Dr. Paul Ehrlich, died on July 24, aged fifty-eight years.

SENATOR GIULIO DE PETRA, the archeologist, director of the Naples Museum, died on July 24, aged eighty-five years.

A MEMORIAL to Captain Scott, R.N., and his four companions who perished in the Antarctic Expedition in 1912 was recently unveiled at Devonport, England. Captain Scott was a native of Devonport. The monument, which was designed by the late Mr. Albert H. Hodge, consists of a granite pylon surmounted by a bronze group representing "Courage sustained by Patriotism, spurning Fear, Despair, and Death." The front of the pylon bears the names of the five heroes. The total height is about 40 feet. A memorial tablet in bronze has been placed in St. Paul's Cathedral with an inscription by the late Lord Curzon: "Inflexible of purpose—steadfast in courage—resolute in endurance in the face of unparalleled misfortune—their bodies are lost in the Antarctic ice, but the memory of their deeds is an everlasting monument."

AN amendment designed to prohibit the teaching of evolution in the common schools of Georgia has

been voted down overwhelmingly by the State House of Representatives.

A NUMBER of French scientists, headed by M. Paul Appell, rector of the University of Paris and member of the Academy of Sciences, have signed a formal protest against the verdict passed at the Dayton trial and the reactionary spirit which informed the proceedings. Among those who have signed the protest are: Professor D'Arsonval, of the Collège de France; Professor Aulard; Mme. Currie; M. Yves Guyot, the well-known economist; M. Ferdinand Brunot, dean of the faculty of letters of the Sorbonne; Professor Pierre Janet; Professor Paul Langevin, and M. Louis Lumière. The protest calls the Dayton trial a "violation of the liberty of thought."

THE seventieth annual meeting of the American Chemical Society took place in Los Angeles during the week of August third. Features of the first night were addresses by Dr. Alexander Findley, of the University of Aberdeen, Scotland, and by W. R. Whitney, of the General Electric Company, Schenectady, both of whom discussed modern theories of matter.

THE American Electrochemical Society will meet in Chicago on April 22, 23 and 24, 1926. Dr. H. C. Cooper has been appointed chairman of the local committee. The main session at the Chicago meeting will be devoted to a symposium on "Chlorine." Papers intended for the spring meeting must be in the hands of the publication committee not later than January 1, 1926.

A MEETING in connection with cancer research was held in Milan on July 13. Among the foreign scientists who attended were Dr. Louis W. Sambon, of the London School of Hygiene and Tropical Medicine; Dr. H. A. Baylis, Mr. K. A. Baylis, Mr. J. Ramsbottom, all three of the British Museum; Dr. T. C. Pan, of the London School of Hygiene and Tropical Medicine. The meeting was presided over by Dr. Sambon, who made a detailed report of the results so far obtained.

AN International Forestry Congress, which will continue its sitting until July 27, has been opened at Grenoble, France. It will consider all questions relating to the increased production of wood and its more rational consumption. The protection of fauna and flora will also be discussed.

AT the annual meeting of the British Empire Cancer Campaign the following grants, recommended by the scientific advisory committee, were approved: £808 to Dr. J. C. Mottram, of the Radium Institute; £500 to Mr. Hieger, at the Cancer Research Institute of the Cancer Hospital, for chemical and other researches into the cause of cancer, and a grant of £1,500 to the

Tropical Disease Prevention Association for certain investigations into the cause of cancer, and it was unanimously resolved to confirm the recommendations of Sir William Leishman's committee to establish a journal of abstracts for the purpose of assisting and coordinating cancer research work throughout the world.

Nature states that in celebration of the two hundred and fiftieth anniversary of the foundation of the Royal Observatory, Greenwich, the King and Queen paid a visit to the observatory on July 23. They were received in the octagon room, the original observatory, by members of the Board of Admiralty and of the Board of Visitors of the Royal Observatory, and were conducted over the buildings and shown the principal instruments. On the evening of the same day a conversazione was given by the president and council of the Royal Society to meet the delegates to the International Astronomical Union. On the following day an official luncheon was given, presided over by the First Lord of the Admiralty.

For the protection of birds and animals \$60,000 has been left from the estate of Finley Barrett, of Lake Forest, Ill. Bequests of \$25,000 each to the Izaak Walton League of America and the American Game Protective and Propagation Society were made and the Audubon Society of America is left \$10,000.

UNIVERSITY AND EDUCATIONAL NOTES

THE trustees of the University of Tennessee have approved the contract for the first of a series of buildings for the medical college to be erected in Memphis. This building, which will cost about \$350,000, will be the first step in the expansion program of the medical school made possible by recent legislation, and will house the departments of anatomy, chemistry and physiology.

THE Rockefeller Foundation has given to the King Edward the Seventh College of Medicine, Singapore, \$350,000 for the endowment of chairs of bacteriology and biochemistry on condition that the government founds an extra chair of biology and agrees to equip and maintain the three departments.

DR. HERBERT BRISTOL DWIGHT, of the Canadian Westinghouse Company, has been made professor of electrical engineering in the Massachusetts Institute of Technology. In the same department Professor F. S. Dellenbaugh, Jr., has been promoted to an associate professorship, and Messrs. Bowles, Dahl and Lansil to assistant professorships.

At the University of Colorado Dr. Aubrey J. Kemper, of the University of Illinois, has been appointed professor of mathematics and acting head of the department, succeeding Dr. Ira M. DeLong, who has been made professor emeritus after forty-seven years of service.

DR. IRVING H. BLAKE (Ph.D., Illinois), has been appointed associate professor of zoology, and Dr. Howard B. Stough (Ph.D., Harvard), assistant professor of zoology at the University of Idaho.

DR. E. G. MAHIN has resigned his position as professor of analytical chemistry and acting head of the department of chemistry in Purdue University, to become professor of analytical chemistry and metallurgy in the University of Nôtre Dame, the appointment to take effect at the opening of the college year in September.

DR. GEORGE M. CURTIS, formerly National Research Fellow in medicine, has been appointed associate professor of surgery at the University of Chicago and associate professor of experimental surgery under the Douglas Smith Foundation for Medical Research of the University of Chicago.

DR. NELSON W. TAYLOR, of the University of California, has been appointed assistant professor of physical chemistry at the University of Minnesota.

RALPH C. HARTSOUGH, of the department of physics of Columbia University, has been made professor of physics, Cornell College, Mt. Vernon, Iowa.

DR. M. P. MOON, instructor in bacteriology at Cornell University, has been appointed assistant professor of medical bacteriology and preventive medicine, at the University of Missouri.

DR. G. M. SHRUM, research physicist at the University of Toronto, has been appointed assistant professor in physics at the University of British Columbia, Vancouver.

At the University of London J. S. Huxley has been appointed to the university chair of zoology tenable at King's College, and Dr. L. Rodwell Jones to the university chair of geography tenable at the London School of Economics.

DISCUSSION AND CORRESPONDENCE THE ETIOLOGY OF CANINE DISTEMPER

FOLLOWING the isolation of an organism from silver foxes which would reproduce the disease known as fox distemper,¹ a search was made for a similar

¹ Green, R. G., "Distemper in the silver fox (*Culpes vulpes*)," *Proc. Soc. Exp. Biol. and Med.*, XXII: 546-548.