difficult of access during the southern winter are to start their Polar Year on January 1, 1933, but will likewise, insofar as practicable, extend the program over 13 months.

While the fundamental activities, magnetic and meteorological observations, are the same for the First and Second Polar Years, there is a great contrast in the associated activities, practically all of which were undreamed of at the time of the First Polar Year. Our knowledge of the interrelations of the different phenomena that are to be observed is still very inadequate both from the scientific and from the practical view-point. The results will be of very great value to all the organizations which are taking part and indirectly to the inhabitants of the earth as a whole. Not only will the government activities, which usually emphasize the practical view-point, benefit, but such organizations as the Carnegie Institution of Washington, which is making a study of the earth's magnetism as a whole, will find that the filling of important gaps in observations will aid greatly in their attack on the problem.

R. S. PATTON,
Director, U. S. Coast and Geodetic Survey

THE DEPARTMENT OF PHYSICS AT THE UNIVERSITY OF CALIFORNIA

TWELVE physicists have selected the University of California department of physics as a place to carry on research during the coming academic year, according to an announcement made by Professor E. E. Hall, chairman of the department.

Two men will come to Berkeley as Rockefeller Foundation Fellows, to work with Professor R. T. Birge. They will be: Dr. H. O. Kneser, of the University of Marburg, Germany, due in Berkeley about October 1, and Dr. Rafael Grinfeld, of La Plata University, Argentine, starting about September 15.

Dr. Robley D. Evans, National Research Council Fellow from the California Institute of Technology, will arrive about September 1 to work with Professor Leonard Loeb. Dr. Wendell H. Furry, another National Research Council Fellow, will arrive about August 15 to work with Associate Professor J. R. Oppenheimer. Dr. F. L. Nutting, of the Drexel Institute, Philadelphia, is now working in the department on certain properties of quartz under the action of x-rays.

Other research men will work with Professor E. O. Lawrence, head of the new Radiation Laboratory. They will be Dr. Malcolm C. Henderson, of the University of Cambridge and honorary fellow at Yale University, who will visit from August 15 to December 31; Dr. John J. Livingood, instructor in physics last year at Princeton, arriving about August 15; Dr. Edwin M. McMillan, National Research Council Fellow from Princeton, arriving about October 1; Dr. Donald Cooksey, Yale University, visiting between August 1 and September 15; Dr. F. N. D. Kurie, Yale University, August 1 to September 15; Dr. James Brady, research fellow at St. Louis University, working until August 31. Dr. M. S. Livingston, alumnus of the University of California, is expected to continue work in the radiation laboratory.

THE YORK MEETING OF THE BRITISH ASSOCIATION

THE British Association for the Advancement of Science will meet in York from Wednesday, August 31 to Wednesday, September 7. According to a summary of the final program given in the London *Times*, the inaugural general meeting, at which the presidential address will be given by Sir Alfred Ewing, will be held on the evening of the opening day. Subjects for discussion include the suppression of noise, forestry, films as a cultural and educational force, deep-focus earthquakes, the electric propulsion of ships and the preparation and uses of statistics in business. Mr. R. Borlase Matthews will speak to Section G on the "Distribution and Utilization of Power from the Grid," and Sir W. M. Flinders Petrie will address Section H on "Copper and Bronze in Palestine." Lieutenant-Colonel Sir David Prain will give his presidential address to the conference of delegates from corresponding societies on "The Conservation of Wild Life in Relation to the Scheme for National Parks."

On Friday, Professor R. B. Forrester will deliver his presidential address to Section F on "Britain's Access to Oversea Markets," and Professor Miles Walker will give his to Section G on "The Call to the Engineer and Scientist." Another presidential address on this day will be to Section L by Mr. W. H. Heller on "The Advancement of Science in Schools: Its Magnitude, Direction and Sense." There will be a discussion on "Crop Production, with Special Reference to the Increased Use of Mechanical Power." In Section G, Mr. A. P. M. Fleming will give "An Engineer's Review of the Soviet Enterprise," and Dr. J. Burtt Davy will talk to Section K on "The Cricket Bat Willow."

Three sectional presidential addresses will be given on Monday. Professor P. G. H. Boswell will speak to Section C on "The Contacts of Geology: the Ice Age and Early Man in Britain." Professor B. Edgell's address to Section J will be on "Current Constructive Theories in Psychology," and Professor J. H. Priestley will discourse to Section K on "The Growing Tree." There will be a discussion on railway

traction, contributed to by Sir Seymour B. Tritton (steam power), Sir Henry Fowler (oil engine power), and Mr. F. Lydall (electric power). In Section D, Dr. Stanley Kemp will deal with "Oceanography in the Antarctic," and Mr. A. C. Stephen with "The Faunistic Divisions of the Floor of the North Sea." Professor A. C. Hardy will speak on "Plankton Research in the Service of the Fishing Industry." In the afternoon there will be a discussion in Sections D and H on "The Primates and Early Man," in which part will be taken by Dr. C. Tate Regan, Dr. A. B. Appleton, Professor J. S. Shellshear, Dr. S. Zuckerman and Dr. Carter, and another on "The Techniques, Possibilities and Limitations of the Measurement of Human Effort as a Basis of Monetary Reward." This will be in Section F; the chairman will be Dr. C. S. Myers, and those taking part will include Dr. C. H. Northcott and Dr. G. H. Miles.

The program on Tuesday includes a discussion in Section M on "The Distribution of Agricultural Products," and addresses on "Recent Changes in the Wheat Areas of the World," in Section E, by Mr. G. V. Jacks, and on "Effects of the World Depression on the Banking Systems of Central Europe," in Section F, by Dr. E. Roll. At the conference of delegates of corresponding societies Dr. C. B. Williams and Captain T. Dannreuther will explain "A Scheme for Recording Immigrant Insects in Great Britain." On Wednesday, Professor J. R. Bellerby will address Section F on "Inflation, the International Remedy," and in Section H, Mr. M. E. L. Mallowan will speak on "The Prehistoric Civilizations of Nineveh."

Two evening discourses have been arranged, one by Sir Arthur Hill on "Plant Products of the Empire in Relation to Human Needs," and the other by Mr. C. C. Paterson on "Uses of the Photo-electric Cell." Other evening engagements are the reception on Thursday by the Lord Mayor of York, Mr. R. H. Vernon Wragge, and the Sheriff, Mr. Arnold S. Rowntree, in the Exhibition Buildings, a public lecture by Mr. H. E. Wimperis in the Cooperative Hall on "Speed in Flight," and a discussion in Section L on "The Place of Science in the Education of Boys and Girls up to Sixteen Years of Age." The subject will be introduced by Sir Richard Gregory, and he will be followed by Sir H. B. Hartley, Mr. Donald Gray, Dr. W. W. Vaughan, Professor W. W. Watts and Mr. W. M. Heller.

An extensive program of visits to places of interest has been drawn up.

SCIENTIFIC NOTES AND NEWS

DR. ARTHUR H. COMPTON, professor of physics at the University of Chicago, has been elected a corresponding member of the Prussian Academy of Sciences.

AT the recent meeting of the American Society of Agricultural Engineers, Major O. V. P. Stout of Berkeley, irrigation engineer in the U. S. Department of Agriculture, was awarded the Cyrus W. McCormick medal, conferred annually in recognition of the most notable contribution in engineering for the year.

C. A. MENZEL, associate engineer at the Research Laboratory of the Portland Cement Association, was awarded the Charles B. Dudley Medal for 1932 at the thirty-fifth annual meeting of the American Society for Testing Materials. This medal, commemorating the name of the society's first president, is awarded annually to the author of a paper presented at the preceding annual meeting, which is of outstanding merit and constitutes an original contribution to research in engineering materials.

JOHN R. BAYLIS, physical chemist of the City of Chicago, was awarded, for work on activated carbon in water, the John M. Goodell Medal of the American Water Works Association at its fifty-second annual convention.

THE Longstaff Medal has been awarded by the Chemical Society of London jointly to Professor W. N. Haworth, of the University of Birmingham, and Sir James Irvine, of the University of St. Andrews, for their work on the chemistry of the sugars.

LECTURERS have been appointed by the Royal College of Physicians, London, as follows: For 1933 Sir Thomas Lewis, Harveian orator; Sir Humphry Rolleston, Fitzpatrick lecturer; Dr. C. S. Myers, Bradshaw lecturer; Dr. C. R. Box, Lumleian lecturer; Dr. C. E. Newman, Goulstonian lecturer; Dr. E. A. Carmichael, Oliver-Sharpey lecturer; Dr. W. G. Savage, Mitchell lecturer, and for 1934 Professor O. L. V. S. de Wesselow, Croonian lecturer.

IN honor of Professor Henry C. Sherman, head of the department of chemistry at Columbia University, a dinner was given recently in the Women's Faculty Club at the University of California, by a group of nutrition workers. Dr. Agnes Fay Morgan, of the department of household science, introduced Dr. Sherman, who spoke on his recent vitamin researches.

DR. M. A. BLISS, St. Louis, a member of the board of managers of Missouri eleemosynary institutions, for several years president of the Missouri Society of Mental Hygiene, was recently presented with the