

News and Notes

Annual Field Reunion of the Friends of Pleistocene Geology

ON MAY 24 and 25 the sixteenth Annual Field Reunion of the Friends of Pleistocene Geology was held in west-central Ohio. This is the first meeting at which this informal eastern group has met west of the Appalachians, so it drew 93 persons from points between Massachusetts and Minnesota. Among them were glacial geologists, soil surveyors, botanists, and ground-water geologists. The conference was planned and conducted by Richard P. Goldthwait of the Ohio State University, who has previously cosponsored meetings on Cape Cod and in west-central New Hampshire. A fine guidebook for this Ohio conference was printed by the Ohio Division of Geological Survey, and new black-and-white maps were drafted by the Ohio Division of Water. (Copies are available from Dr. Goldthwait while they last.) Both these organizations collaborated with the Geology Department at Ohio State in entertaining the party and in providing travel facilities.

The primary objective of this Ohio field conference was to inspect evidence for dividing Wisconsin glacial drift into two major advances of the ice. Tentatively, until clear correlations with respect to type sections are possible, the subdivisions have been called the Tazewell and Cary substages. Evidence of a long (Brady?) time interval between these substages was seen in clay-rich, leached soils developed in glacial gravel but buried beneath thin calcareous Cary (?) till. At three localities it was demonstrated that the buried soil is distinctly younger than soils on Illinoian glacial gravels, which are also present in this area, and yet they are comparable to soils on youngest Wisconsin gravels. In other words, the time between the two Wisconsin ice advances may have been as long as all the time since Cary glaciation (15,000 years?). Such buried soils are now known from a dozen localities in Ohio and many more in Indiana.

Confirmation of the long mid-Wisconsin interval was seen at one of several sites where thin Cary (?) till veneers a V-shaped stream valley cut in glacial (Tazewell?) gravels after the first Wisconsin glaciation and prior to the last ice advance. Considered in conjunction with vast areas of till over gravel totaling hundreds of square miles and exhibiting till-covered kames, eskers, outwash plains, and kettle holes, these demonstrate a major readvance. The double advance was observed for both of the two great ice lobes that once spread over southwestern Ohio.

A second objective of the conference was to examine the difference in surface characteristics of these two Wisconsin glacial drifts where each is exposed at the surface. The older (Tazewell?) drift extends out from under the younger drift and farther south across Ohio.

In some places it has been eroded to subdued, smooth relief of rounded hills regardless of changes in the underlying bedrock. Everywhere it has a more completely integrated valley system with few, if any, closed depressions. Soils are deeper, for they are leached 36–48 in. on the average, and the typical topsoil consists of uniform silt, which may be added Tazewell loess. The younger (Cary?) drift forms flat till plains with a fine microrelief of closed depressions. Valleys are farther apart and slightly younger; occasional boulders are evident. Soils are only 18–36 in. deep on the average, and they include a gritty-stony topsoil typical wherever parent material is glacial till.

Mapping the outer boundary of this younger drift is problematical and is being pursued further this summer. It now appears that the last (Cary?) ice advance proceeded only a short distance beyond Marey moraine at Circleville, Ohio, and Camden–Springfield moraines south of Dayton and Springfield, Ohio. It was shown in each case that the end moraine does not mark the farthest limit of the ice advance, but rather it marks a halt or slight readvance after an initial retreat. The continuity and simultaneous development of the outermost end moraine is suggested by characteristic gravel-kame proximal portions of that one moraine line.

The second day was spent inspecting relationships between the two separate lobes, or protrusions, of ice that spread southward as each of the Wisconsin ice sheets advanced. In the interlobate area from Xenia to Urbana, Ohio, two separate levels of gravel outwash, deposited by glacial meltwater, outline by their restricted courses just where the edge of each ice lobe must have been. All the rugged Cable moraine, formerly called interlobate, was made by the lobe to the east (Scioto lobe), whereas a succession of retreatal moraine positions to the west (Miami lobe) first forced meltwaters southward into Clifton Gorge of the Little Miami River and later permitted water to escape southward down the Mad and Miami rivers, forming the sandy terraces under Wright-Patterson Airbase.

The enthusiasm at this meeting and the benefits accruing to all who map comparable areas will encourage future reunions and similar conferences. Already a "Midwest Section" of Friends of Pleistocene Geology has held informal meetings in the upper Mississippi Valley, and a longer, biennial Pleistocene Field Conference is well established. The detailed events of Pleistocene chronology can be corrected, adjusted, and firmly established only by discussion meetings of professional groups of geologists, soil surveyors, and botanists, such as attended this sixteenth reunion of the Friends of Pleistocene Geology.

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Scientists in the News

John R. Bates has been appointed technical adviser to the Executive Committee of Sun Oil Company's Board of Directors. His administrative and operating responsibilities in the Chemical Research and Development Department have been assigned to **J. Bennett Hill**, director of that department. Dr. Bates has resigned from Sun's Board of Directors but will continue to serve on the Military Fuels Technical Advisory Committee to Petroleum Administration for Defense. The new post of technical adviser was created to keep Sun's Executive Committee fully informed of the rapidly increasing technological developments in the petroleum and petrochemical fields.

H. F. Bright, formerly of the University of Texas, has accepted a position as chief, Technical Services, Human Resources Research Office, George Washington University.

A. G. W. Cameron, formerly of the University of Saskatchewan, has joined the physics staff of Iowa State College. He will teach in the graduate school and will also be associated with the group at the synchrotron in the Institute for Atomic Research.

The Hayden Planetarium has named **Joseph M. Chamberlain** assistant curator. After a year of duty in the Navy as a navigator, he taught nautical science at the Merchant Marine Academy, Kings Point, L. I. In 1950 he was named assistant professor of astronomy and meteorology, and in the same year was appointed guest lecturer in astronomy at the planetarium.

Herbert G. M. Fischer, assistant manager of the Research and Development Department of the Standard Oil Development Company, was presented a service award upon the completion of 30 years of service. His long service with the Standard Oil Company (New Jersey) affiliates began in 1922, when he joined the Development Department as an engineer. In 1925, Mr. Fischer was transferred to the Bayway Refinery of the present Esso Standard Oil Company as chief chemist, and he became a member of the Standard Oil Development Company in 1933, organizing the Process Office. Shortly thereafter, he was sent to the Palembang Refinery in Sumatra to assist the Standard Vacuum Oil Company in expanding its refining facilities.

Arnold B. Grobman has been appointed director of the Florida State Museum, which is a department of the University of Florida. He will retain his connection with the Department of Biology at the university, where he is an associate professor of biology.

Appointment of **Warren E. Hoffman**, of Schenectady, as chief, Motor and Control Branch of the Electrical Equipment Division has been announced by the National Production Authority, Department of Commerce. Mr. Hoffman replaces **Roger L. Kingsland, Jr.**, who has returned to the Elliott Co., of

Ridgway, Pa. Mr. Hoffman is on loan from General Electric Company, where he has been employed for 40 years.

At a recent meeting of the Royal Society (London), **Sven Hörstadius**, professor of zoology, University of Uppsala; **Albert Jan Kluyver**, president of the Royal Netherlands Academy of Sciences, and professor of microbiology at the Technische Hogeschool at Delft; **Albert Marcel Germain René Portevin**, professor at the Ecole Supérieure de Soudure Autogène, Paris; and **Tadeus Reichstein**, professor in the Institute of Organic Chemistry, of the University of Basel, were elected foreign members.

R. Paul Huggins has been elected a vice president of Gulf Oil Corporation and the Gulf Refining Company. On Sept. 15, he will take charge of their crude oil purchasing activities under the general supervision of J. H. Russell, vice president in charge of pipe lines and crude oil purchasing. Mr. Huggins will have offices at Houston, Tex. **T. H. Wallace**, assistant to Mr. Huggins, will succeed him as vice president in charge of the Western Gulf Oil Company, with offices in Los Angeles.

Eleanor Alexander Jackson, of the Laboratory for the Study of Proliferative Diseases, Presbyterian Hospital, Newark, N. J., has given a series of addresses in Honolulu. Scientists and physicians at the Board of Health of Hawaii and the Society of Medical Technologists at the University of Hawaii have seen her demonstrate her work on Hansen's bacillus, and successful blood cultures by her technique were made by George W. T. C. Chu, of the university, and by Reiko Yoshida, of the Hale Mohalu Hospital Laboratory of the Board of Health at Pearl City.

G. L. Kesteven, regional fisheries officer for Asia and the Far East, and secretary of the Indo-Pacific Fisheries Council, has been transferred to FAO headquarters in Rome. His post will be taken by **Cecil Miles**.

Twenty-five years ago, **Alfred Kidder** called a conference of archaeologists working in the Southwest to discuss the progress of their work. This was described as the Pecos Conference, and last month Dr. Kidder was again present to head the meeting, held at Santa Fe, N. M., where he was presented with a silver trowel in commemoration of the silver anniversary of the conference and nearly 50 years of active work in Southwestern archaeology. During the conference reports on field research were read; one of the most important was a paper by **Emil Haury**, of the University of Arizona, on the discovery of several flint points in the skeleton of a mammoth. In view of the fact that next year will be the 25th anniversary of the founding of the Museum of Northern Arizona, **Harold Colton's** invitation to hold the 1953 Pecos Conference at the Research Center of the museum was unanimously accepted, and Dr. Colton was elected chairman for the coming meeting, which will form a part of the silver anniversary celebration.

F. Earle Lyman, a U. S. Public Health Service scientist with the Communicable Disease Center, is leaving the service to accept an appointment as associate professor of zoology at Southern Illinois University.

Colleagues and former students recently joined in honoring **George F. McEwen**, professor emeritus of oceanography, who retired July 1 after 40 years of service at the University of California's Scripps Institution of Oceanography. Dr. McEwen first became associated with Scripps in 1908, when it bore the name of the Marine Biological Association of San Diego. He became a permanent member of the staff in 1912, the year the institution became a part of the University of California. Dr. McEwen plans to continue his researches in the field he helped to pioneer.

James McGinnis, professor of poultry nutrition at Washington State College, has taken a year's leave of absence to act as assistant director of agricultural development for Chas. Pfizer & Co. Under Dr. McGinnis, Washington State's Poultry Department was one of the first to experiment with vitamin B₁₂ and to record the extra growth stimulation achieved with antibiotics. During his year with Pfizer, Dr. McGinnis will make his headquarters at Terre Haute, Ind., where the company manufactures most of its penicillin and terramycin feed supplements.

Augustine R. Marusi has been appointed vice president in charge of development of the Borden Company's Chemical Division. Mr. Marusi has been director-superintendent of Alba, S. A., a subsidiary of the division, in São Paulo. Mr. Marusi joined Borden's 13 years ago, starting at the division's research laboratory in Bainbridge, N. Y. Since 1947 he has been director-superintendent of the division's Brazilian operation, which has offices in São Paulo and a plant at Curitiba.

McNeil Laboratories have announced the appointment of **David F. Marsh** as manager of the Department of Pharmacology. Dr. Marsh, who has been professor and head of the Department of Pharmacology at West Virginia University, was recently awarded the John J. Abel Award in Pharmacology by the American Society for Pharmacology and Experimental Therapeutics.

Frank W. Putnam, assistant professor and Markle Scholar in the Department of Biochemistry, University of Chicago, has been assigned to work for a year with Fred Sanger, of the Biochemical Laboratory, Cambridge, Eng., with support from the Lasdon Foundation.

David Richardson, head of the Spectroscopy Research Department, Scientific Bureau, Bausch & Lomb Optical Co., will address scientific groups in London, Rome, Paris, and Stockholm. He will also visit the Vatican Observatory in Rome and the Swiss National Observatory in Zurich. Mr. Richardson will discuss

"Echelle Spectroscopy" before the third International Spectroscopy Colloquium in London and the Instruments and Measurements Conference in Stockholm. He will also hold informal discussions on the applications of diffraction gratings at the International Astronomical Union and the Institute d'Optique.

Alfred Sasser, Jr., has been appointed consultant in employment for the National Society for Crippled Children and Adults, succeeding **Edward L. Morris**, who recently became executive director of Chicago's Portal House. The National Personnel Registry and Employment Service, which will be one of Mr. Sasser's responsibilities, is unique in its work of recruitment and free placement of professional personnel in the field of the crippled. Since its establishment five years ago it has placed more than 1200 professional persons in key positions.

Helmuth H. Schrenk, research director, Industrial Hygiene Foundation, Mellon Institute, has received notification from the Minister of Public Health and Population of France that he has been nominated a Chevalier of Public Health, in recognition of his distinguished services. Dr. Schrenk is a senior fellow of Mellon Institute and a lecturer in occupational health in the School of Public Health of the University of Pittsburgh.

Management Counselors, Inc., of New York, have announced that **Frank N. Speller** has become an associate member of the organization. Dr. Speller has been actively engaged in corrosion studies for more than 25 years, both in practical field operations and in research.

Wendell M. Stanley, of Berkeley, Calif., and **Marguerite P. Thompson**, of Boulder, Colo., have been appointed to the National Advisory Cancer Council of the National Cancer Institute. They will take up their duties at the October meeting of the council. Dr. Stanley has been director of the Virus Laboratory of the University of California since 1948. Mrs. Thompson has been associated with the cancer research program of the University of Colorado.

George L. Voelz has been assigned to the Los Alamos Scientific Laboratory of the University of California as an Atomic Energy Commission Research Fellow in Industrial Medicine. Dr. Voelz recently completed the first year of his fellowship at the Kettering Laboratory of Applied Physiology, Cincinnati. He will be assigned to the division's Industrial Medicine Group, of which Robert S. Grier is group leader. Dr. Voelz is the first fellow to be assigned to the Los Alamos Scientific Laboratory under the AEC Research Fellowship Program.

H. A. Witkin has been appointed director of the Laboratory for Research in Psychodynamics and associate professor in the Department of Psychiatry of the State University of New York College of Medicine, New York City.

Education

Postgraduate courses arranged by the **American College of Physicians** will be held at the following institutions: Mount Sinai Hospital, New York (Sept. 30–Oct. 4); University of Pittsburgh School of Medicine (Oct. 6–11); Emory University School of Medicine (Oct. 20–24); New England Center Hospital, Boston (Nov. 10–15); Presbyterian Hospital and University of Illinois College of Medicine, Chicago (Nov. 17–21); University of Pennsylvania Graduate School of Medicine, Philadelphia (Dec. 1–6); University of California School of Medicine, Medical Extension, at the Franklin Hospital, San Francisco (Dec. 8–12); Johns Hopkins University and University of Maryland schools of medicine (Dec. 8–13). All registrations must be made through the executive offices of the college at 4200 Pine St., Philadelphia 4.

The **University of Illinois** College of Medicine has promoted the following to the rank of full professor: O. E. Van Alyea and Marvin J. Tamari (otolaryngology), Egbert H. Fell and R. Kennedy Gilchrist (surgery), and William H. Browne (obstetrics and gynecology). Twenty-eight staff members have been advanced to the rank of associate professor, and 29 others to that of assistant professor.

Louis Thurstone, for 28 years at the University of Chicago, has accepted appointment as research professor of psychology and director of the Psychometric Laboratory at the **University of North Carolina**. His wife, Thelma Gwinn Thurstone, will also work in the laboratory and will hold a professorship in the School of Education. Other appointments to staff the new laboratory are Wilfred Gibson, formerly of the University of Illinois, John J. Mellinger, and Thomas Jeffrey, both of whom are completing work for the Ph.D. at the University of Chicago.

Oak Ridge Institute of Nuclear Studies will offer a course on advanced radioisotope techniques in biochemical research Nov. 3–14. Applications must be filed by Oct. 1 with Ralph T. Overman, chairman, Special Training Division, P. O. Box 117, Oak Ridge, Tenn.

The **University of Pennsylvania** has been obliged to postpone the lectures to have been given by George Sarton Oct. 17, 24, and 31 (*SCIENCE*, 116, 82 [1952]) to Jan. 16, 23, and 30.

Stevens Institute of Technology has promoted Paul Allen, Jr. (chemistry), and William L. Sullivan (electrical engineering) to full professors. Newell O. Mason (humanities) and Mathew H. Bilyk (machine design) have been made associate professors.

The **University of Tennessee** College of Medicine has appointed Frank C. Wilson, Jr., of Birmingham, Ala., and William A. Neely, of Banks, Miss., research associates in the College of Medicine. Dr. Neely is currently doing research on thermal burns, and Dr. Wilson is studying the effects of diet on the ability of cancer patients to undergo surgery.

Grants and Fellowships

The **Clayton Foundation for Research** has allocated \$20,000 to the Pharmaceutical Foundation of the College of Pharmacy at the University of Texas for the continuation of cooperative fundamental studies with the Biochemical Institute on toxic plants, with particular relation to possible anticarcinogenic, antibacterial, and antiviral properties.

The **National Fund for Medical Education** has authorized \$1,226,537 in grants to accredited medical schools. Each of the nation's 72 four-year schools will receive \$15,000; each of the six two-year schools, \$7500; and the one six-year school, \$11,250. Seventy-four medical schools will share a total of \$90,287 that has been contributed by 1522 physicians.

Public Health Service grants, totaling \$562,351, will support training in cancer diagnosis and treatment in 21 states, the District of Columbia, and Puerto Rico. All grants were for continuation of previously supported projects with the exception of \$5000 awarded to the University of North Carolina School of Dentistry for the establishment of a new cancer teaching program. Thirty-four grants, totaling \$523,993, will aid cancer control studies and demonstrations in 16 states, the District of Columbia, and Israel. At the Beilinson Hospital, Petah Tikva, Z. Grinberg will study the incidence of cancer of the cervix among Jewish women in Israel. Largest grant (\$59,200) went to the American College of Surgeons for continued assistance of its survey of cancer and diagnostic clinics. The American Cancer Society will receive \$35,093; University of Tennessee College of Medicine, \$63,065 for three projects; and the University of Kansas Medical Center, \$39,718 for two projects.

In the Laboratories

Plant expansion and accelerated research activities at **J. T. Baker Chemical Co.** have led to the appointment of Gilbert E. Goheen as director of research and development. Dr. Goheen was formerly associate director of General Aniline and Film Corporation's central research laboratory.

Beckman Instruments has purchased the business and assets of Berkeley Scientific Corporation, of Richmond, Calif. No changes in management or personnel are contemplated, and W. K. Rosenberry, Berkeley founder and president, will become a Beckman vice president, in charge of operations of the new Berkeley Scientific Division.

Fisher Scientific Company has added the following new staff members to its research and development laboratories: Samuel Fisch, of the Technicum Hintthur, Switzerland; George Kahl, Joseph Kurtak, and Kenneth Shen, of Carnegie Institute of Technology; John M. McCall, of Duquesne University; Julian Reinheimer, of the University of Minnesota; and William Taylor, of Marietta College.

The **National University of Colombia** opened its new \$100,000 hydraulics research laboratory last month. The new Bogotá laboratory was designed at the State University of Iowa by Hunter Rouse and staff members of the Institute of Hydraulics Research. Iowa representatives for the inauguration were John S. McNown and A. L. Alin.

Shell Chemical Corporation, which recently purchased Julius Hyman & Company, will centralize all its agricultural chemical activity in Denver. F. W. Hatch has been appointed vice president of the Hyman Company and manager of the new Julius Hyman & Company Division of Shell.

Meetings and Elections

The **American Astronomical Society** has elected R. R. McMath president (1952-55) and G. M. Clemence vice president (1952-54). C. M. Huffer, secretary, and J. J. Nassau, treasurer, remain in office until 1954.

The first General Assembly of the new **International Mathematical Union** met in Rome Mar. 6-8. Eighteen member-countries were represented by delegates, and observers from Spain and Poland were present. The members of the U. S. delegation were M. H. Stone, chairman; Einar Hille, J. R. Kline, Saunders MacLane, and G. T. Whyburn. A committee was set up to study the possibility of publishing a world directory of mathematicians. Other committees will deal with methods of decreasing the cost of mathematical publication and of facilitating the international exchange of persons. The International Mathematical Instruction Committee (IMUK) was re-established. This committee, charged with the study on an international basis of the important and difficult problems of improving mathematical instruction at all levels, will consist of Behnke (Germany), Chatelet (France), Fehr (Switzerland), Kurepa (Yugoslavia), and Jeffery (Canada). Auxiliary national committees may be set up to assist in this work. The chairmanship of the meeting was rotated from country to country. Three new countries—Pakistan, Spain, and Yugoslavia—were admitted to membership, and it was decided that both English and French will be the official languages of the union. The following officers were elected: president, M. H. Stone (USA); vice presidents, E. Borel (France) and E. Kamke (Germany); secretary, E. Bompiani (Italy); members of the Executive Committee, W. V. D. Hodge (England), S. Iyanaga (Japan), and B. Jessen (Denmark).

At its recent meeting in New York, the **International Organization for Standardization** elected Hilding Törnebohm president, to serve for three years. Dr. Törnebohm is technical director of the Swedish SKF ball bearing company in Gothenburg.

Research and Development Associates, Food and Container Institute, at the annual meeting in Chicago, elected the following officers: chairman of the board, Daniel M. Dent; vice chairman, F. N. Peters, Jr.;

president, A. L. Elder; vice presidents, C. W. Kaufman and A. N. Prater; treasurer, F. D. Long; secretary, Rohland A. Isker.

The seventh **Saranac Symposium** will be held Sept. 22-27, continuing a series begun in 1934. The most recent symposium was held in 1947. The seventh symposium will deal with various aspects of the effect of inhaled substances upon the lungs of industrial workers. Since seating capacity is limited, reservations for the course should be made at once by writing to the Saranac Laboratory, Saranac Lake, N. Y.

A **World Medical Congress for the Study of Living Conditions** will be held in Montecatini, Italy, Oct. 16-18. President of the congress will be Pietro Verga, of the University of Naples.

Miscellaneous

For the fiscal year 1953, the **Atomic Energy Commission** is changing its previous policy of distributing radioisotopes for cancer research and therapy. A charge of 20 per cent of production costs will be made, plus the regular handling and transportation charges.

Under an agreement between Hong Kong University and the Hong Kong Department of Agriculture, Fisheries and Forestry, a **Fisheries Research Unit**, with a 60-foot vessel at its disposal, is beginning operation this month. Among other projects, the unit will survey fishing grounds around Hong Kong, study the effect of ocean currents and prevailing winds on the movement of fish; investigate factors influencing the yield from local fishing grounds, and consider measures to extend and improve brackish and freshwater pond-fish culture.

The Annual Report for 1951 of the **National Physical Laboratory** (see history of the NPL in *THE SCIENTIFIC MONTHLY*, 74, 346 [1952]), recently released by the Department of Scientific and Industrial Research, contains details of the year's research from each division of the laboratory. Among the changes recorded are the transfer of the Engineering Division to the Mechanical Engineering Research Organization and the closing down of the Statistics Section of the Mathematics Division. Projects ranged from housing research to electrical standards and aerodynamics. Copies may be purchased for 75¢ from British Information Services, 30 Rockefeller Plaza, New York 20.

The **World Meteorological Organization**, which took over the functions of the International Meteorological Organization, formed in 1878, has issued Vol. 1, No. 1 of the *WMO Bulletin*, which will be published quarterly, in English and French. WMO has set up technical commissions in aerology; aeronautical, agricultural, marine, and synoptic meteorology; bibliography and publications; climatology; and instruments and methods of observation. Gustav Swoboda, former chief of IMO, is secretary-general of WMO.