

# News and Notes

## Pennsylvanian-Permian Field Conference

Aureal T. Cross

*West Virginia Geological and Economic Survey, Morgantown*

A special field conference on the stratigraphy, sedimentation, and nomenclature of the Upper Pennsylvanian and Lower Permian strata was held in southeastern Ohio, northern West Virginia, and southwestern Pennsylvania, September 8-10. About 40 geologists led by Aureal T. Cross, of the West Virginia and Ohio Geological Surveys, attended. The Geological Surveys of Ohio and West Virginia joined in the sponsorship, with the cooperation of the Coal Committee of the Society of Economic Geologists.

The route of the trip included the type areas of the Monongahela, Washington, and Greene series, and a large number of the type localities for the named stratigraphic units. Many sedimentary anomalies, lateral continuity of various lithologic units, cyclic groupings of these strata, and lateral variations of the facies were repeatedly pointed out and discussed. Numerous comments by some of the leading geologists in this field of study were recorded.

A comprehensive field guide, or "work book," for the use of the participants was prepared by Dr. Cross, with the assistance of Thomas Arkle, Jr., and Wm. H. Smith, of the West Virginia and Ohio Geological Surveys, respectively. It includes a lengthy road log, 63 columnar profiles and geologic diagrams, 3 maps, a statement of problems and ideas to be discussed and explored, several pages of remarks, and a pocket containing 6 prepared charts of geologic columns, correlations sheets, etc. Copies of this guide are still available at \$2.50 each.

Following repeated demonstrations in the field of the problems associated with the geology of the area, the participants were called upon for comments and opinions at evening sessions led by Dr. Cross in Wheeling and Morgantown. A record of these comments now being circulated among the participants, may later be summarized and published, along with contributions at additional conferences already planned.

As a result of proposals made and opinions expressed at the conference a complete revision of the stratigraphic nomenclature of these series appears to be desirable. Continuity of the sedimentary members and their grouping into cyclothems are now generally agreed upon. The

lack of any major change of lithology or break in the sedimentary record from Upper Conemaugh to the top of the Greene series, and the relatively minor amount of westward thickening of the sediments in this area seem to be established and accepted ideas. The change in facies in the northern portion of the Dunkard Basin from the shoreward (east or southeast) side of the sedimentation to the seaward side (northwest to west in Ohio) was shown for all three series to be essentially similar, with eastward transgression of the sea being probable. The principal components of the facies of each series from east to west are hard, gray, fresh-water(?) limestones with a few gray shales and coals, and some sandstone, grading westward into thinner gray limestones and thicker intercalated gray shales and impure sandstones, with coals generally impure and thin. The latter give way to the west to incursions of red shales of highly calcareous nature, with or without intercalated limestone beds which, when present, are very impure and often variously colored, with very shaly sandstones. The coal horizons are commonly represented by no more than carbonaceous smuts or leached zones at the top of the underclay.

The sandstones are the most unpredictable of all the sedimentary units, and the coals and/or underclays are the most constant features of the cyclothems. The use of a single name for all the lithologic units of a single cyclothem was suggested by Dr. Cross as a reasonable solution for the present confused and incomplete state of the nomenclature of these and comparable cyclic accumulations in other areas.

In this respect a round-table conference, sponsored by the Coal Committee of the Society of Economic Geologists, to discuss these problems and their relationship to similar problems of comparable strata elsewhere will be held at 2:00 P.M., November 17, in the South American Room of the Statler Hotel, Washington, D. C., in conjunction with the Geological Society of America meetings. Paul H. Price, State Geologist of West Virginia, and John Melvin, State Geologist of Ohio, will serve as co-chairman, and Monroe G. Cheney, of the Anzac Oil Company, will be discussion leader.

### About People

**André Cournand**, associate professor of Medicine, College of Physicians and Surgeons, Columbia University, will deliver the Third Harvey Lecture of the current series at the

New York Academy of Medicine on November 16. Dr. Cournand will speak on "Cardiopulmonary Function in Chronic Pulmonary Disease."

**Frank Hovorka**, director of the Chemistry Laboratories, Western Reserve University, has been named

chairman of the Division of Chemistry to succeed the late Harold Simmons Booth. Dr. Hovorka has been at the university since 1925.

**J. Allen Hynek**, of Ohio State University's physics and astronomy faculty, has been appointed assistant

dean of the Graduate School. He will continue on the staff of the Department of Physics and Astronomy, serving also as director of Ohio State's McMillin Observatory and as astronomer at Perkins Observatory, Delaware, Ohio.

**Cornelis Willem de Kiewiet**, acting president of Cornell University since July 1949, will become the fifth president of the University of Rochester, June 30, 1951. Dr. de Kiewiet succeeds **Alan Valentine**, who resigned last June, and has since been named Administrator of Economic Stabilization.

Five scientists have been added to the staff of the Los Alamos Scientific Laboratory. They are **William W. Wood**, **Carl W. Bjorklund**, **Richard J. Kandel**, **Arthur A. Broyles**, and **Joseph E. Perry, Jr.**

**Robert Burns Woodward**, professor of chemistry at Harvard University, will give the sixth annual Harrison Howe Lecture before the Rochester Section of the American Chemical Society on November 20. His title will be "Patulin, the Structure and synthesis of a Natural Product."

## Visitors

**Albrecht Unsold**, director of the Observatory and of the Institute for Theoretical Physics, University of Kiel, Germany, was visiting professor of astronomy at Strawbridge Observatory, Haverford College, during October. Dr. Unsold will visit Mount Wilson and Mount Palomar Observatories, the University of California, Yerkes Observatory, University of Michigan, and Cornell University before returning to Germany in mid-December.

The National Bureau of Standards recently received the following visitors: **George D. Coumoulos** and **Alexander A. Trypanis**, of the National Technical University, Athens, Greece; **Charles Massonet**, University of Liège, Belgium; **Konrad Knopp**, University of Tübingen, Germany; **John A. Saxton**, Radio Research Station, Department of

Scientific and Industrial Research, Slough, England; **C. Wainwright**, National Physical Laboratory, Teddington, England; **H. Wouters**, Staatsmijnen (State Mining), Geleen, The Netherlands; **E. R. Cooper**, Dominion Physical Laboratory, Wellington, New Zealand; **M. Gordon** and **C. E. Kendall**, Dunlop Research Center, Dunlop Rubber Co., Ltd., Birmingham, England; **Lord Halsbury**, British National Resources Development Board, London; **H. P. Koch**, British Rubber Producers' Research Association; **A. W. Lategan**, South African Bureau of Standards, Pretoria; **Boyd Mercer** and **S. E. A. Stirling**, Ready Mix Concrete, Ltd., Sydney, Australia; **Hans Oetter**, Feldmühle Papier und Zellstoffwerke Aktiengesellschaft, Oberlahnstein, Germany; **H. C. Richardson**, Gummed Products Pty. Ltd., Sydney, Australia; and **Kenji Saguchi**, Japanese Spinners Inspecting Foundation, Osaka.

**George W. Pickering**, director of the Medical Unit, St. Mary's Hospital, London, delivered the fourth William Allen Pusey Memorial Lecture of the Institute of Medicine of Chicago on October 30, at a joint meeting with the Chicago Society of Internal Medicine.

## Grants and Awards

**Research Corporation** has announced the allocation of sixty-two grants-in-aid of scientific research, in the fields of physics, chemistry, mathematics, and engineering, to colleges, universities, and scientific institutions in 27 states and the District of Columbia. These awards bring to a total of more than \$700,000 the funds granted during the current fiscal year. New recipients of awards are:

San Diego State College, Lionel Joseph and Robert Isensee; University of California at Berkeley, Charles R. Wilke; University of Southern California, James C. Warf; University of Denver, William C. Stickler; Yale University, Harry H. Wasserman; Florida State University, Guenter Schwarz and George Rogosa; University of Florida, Edward C. Rietz; Georgia Institute of Technology, J. M. DallaValle; Illinois Institute of Tech-

nology, Sei Sujishi; Northwestern University, Robert L. Burwell, Jr.; University of Chicago, Thornton Page; State University of Iowa, Stanley Wawzonek; Fort Hays Kansas State College, Harold S. Chogull; Kansas State College, Arthur Clinton Andrews; University of Louisville, Gradus L. Shoemaker; University of Massachusetts, Richard S. Stein; Wellesley College, Margaret K. Selkel; College of St. Thomas, St. Paul, Minnesota, Jerome G. Burtle; Princeton University, E. Newton Harvey; University of New Mexico, Milton Kahn; Cornell University, Henri S. Sack; College of Education and Industrial Arts, Ohio, E. Oscar Woolfolk; Ohio Northern University, Howard H. Hoekje; Ohio University, Jesse H. Day; University of Cincinnati, Harold E. Hoelscher; Langston University, Oklahoma, Samuel P. Massie; Oregon State College, J. C. Decius; Carnegie Institute of Technology, Philip L. Southwick; Duquesne University, Hugh F. Harnsberger; Lehigh University, Edward D. Amstutz; Lincoln University, Oxford, Pennsylvania, Norman E. Gaskins; Brown University, Harold R. Nace; University of South Carolina, Peyton C. Teague; University of Utah, James M. Sugihara; State College of Washington, Gardner W. Stacy; University of Wyoming, Sara Jane Rhoads; and the American Institute of Beirut, Lebanon, Robert H. Linnell.

**The Ford Foundation** has announced the names of the seven universities that will share in a \$3,000,000 grant for the establishment of basic research programs in human conduct. Columbia, Yale, Harvard, California, Cornell, Michigan, and Chicago will each receive \$300,000; \$100,000 each will be given to Minnesota, Pennsylvania, Stanford, Illinois, North Carolina, and Princeton. The foundation is also adding a five-year grant of \$60,000 annually to the Social Science Research Council of New York for similar research, and a grant of \$500,000 to the Public Administration Clearing House of Chicago to further its work in international and national administration.

Three scientists in the field of suprarenal cortex hormones have won the **1950 Nobel Prize for Medicine**. They are Mayo Clinic physician **Philip S. Hench**, T. Edward Kendall, head of the department of Biochemistry at Mayo, and **Tadeus Reichstein**, of Basel, Switzerland. The citation reads: "For their dis-

coveries concerning the suprarenal cortex hormones, their structures and biological effects." Dr. Kendall, who also discovered throxin, the active substance of the thyroid gland, which has made up for deficiencies in glandular secretion in countless human beings and helped them grow normally, and Dr. Hench, who was the first to apply ACTH in the treatment of rheumatism, were aided in their work by the Research Corporation acting through its Committee on Scientific Research headed by R. R. Williams.

## Fellowships and Prizes

**The New York State Department of Health** is making available one- to two-year fellowships in public health, that provide for residency training, as well as for a postgraduate academic year in a school of public health. The stipend is \$2,400 to \$4,200 a year, depending on the type of training provided. Applicants must be graduates of medical colleges approved by the American Medical Association, or of foreign medical schools recommended by the AMA, and must have completed at least one year's approved internship. They must be eligible for license to practice medicine in New York state and should be interested in, and eligible to enter, public health service in the state upon completion of the program. Applications and further information may be obtained from Dr. Franklyn B. Amos, Director of Professional Training, New York State Department of Health, Albany 1.

**Sigma Delta Epsilon**, graduate women's scientific fraternity, is offering, for the first time, an award of \$200 to a woman for research done in her own home. The award will go to the woman submitting the best paper describing such original research. It will be presented at the Cleveland meeting of the AAAS in December.

## Meetings

**The Aeromedical Panel**, convened in Washington, October 9, under the chairmanship of Randolph Lovelace

II, head of the Lovelace Foundation, Albuquerque, N. M., and composed of medical scientists from throughout the nation, has completed its survey of medical research facilities, budget, and personnel problems at several major air force installations. Scientists making the survey included John H. Lawrence, Donner Laboratory, University of California, Los Angeles; J. Kaplan, UCLA; Loren Carlson, University of Washington School of Medicine, Seattle; E. J. Baldes, Mayo Clinic, Rochester, Minn.; Donald W. Hastings, University of Minnesota Medical School, Minneapolis; A. P. Gagge, Medical Research Division, Office of the USAF Surgeon General; Magnus I. Gregersen, Columbia University College of Physicians and Surgeons, New York City; Shields Warren, New England Deaconess Hospital, Boston; John B. Hickam, Duke University Medical School, Durham; Paul Morris Fitts, Jr., Aero-Medical Laboratory, Wright-Patterson AFB, Ohio; B. J. Driscoll, Scientific Advisory Board to the Air Force Chief of Staff, Washington; and R. Lee Clark, Jr., University of Texas M. D. Anderson Hospital for Cancer Research, Houston.

**Surgical operations televised** from an operating room in Grace Hospital to some 1,000 physicians in the Masonic Temple's Crystal Ballroom will high light Detroit's first complete color-television medical seminar, on November 15 and 16. The doctors will view the program through multiple receivers, and, for the first time in medical television, conversation between operator and observer will be possible. The program will be under the auspices of the Wayne University College of Medicine, in cooperation with the Academy of General Practice of Detroit, Wayne County Medical Society, and Grace Hospital. The presentation will be sponsored and directed by Smith, Kline & French Laboratories. A committee under the chairmanship of Charles G. Johnston, professor of surgery at Wayne, planned the program to emphasize clinical subjects, both medical and surgical, of greatest interest to the general practitioner.

## NRC News

**The American Cancer Society** is offering British-American exchange fellowships in cancer research to U. S. citizens possessing an M.D., Ph.D., or Sc.D., for advanced training and experience in Great Britain, in specialized fields pertaining to cancer. Similar fellowships are offered by the British Empire Cancer Campaign to British citizens for study in the U. S. Applications should state the institution where the fellow plans to work, the individual under whom he wishes to work, the problem he intends to investigate, and when he wishes to start. The fellowships will be awarded for one year, effective at the convenience of the institution and the fellow, and carry a stipend of \$4,020. An allowance of \$600 is made for travel to Great Britain, and university staff appointment with teaching duties is permitted. Applications should be sent to the Executive Secretary, Committee on Growth, Division of Medical Sciences, National Research Council, 2101 Constitution Ave., Washington 25, D. C.

NRC Bulletin No. 119, **The Composition of Milks**, may be had without charge from the Publications Office. It was prepared by the Committee on Maternal and Child Feeding of the Council's Food and Nutrition Board, Icie Macy Hoobler, chairman. The report consists chiefly of a complete compilation of the comparative composition and properties of human, cow, and goat milk, colostrum, and transitional milk. Physical properties, fat characteristics, both organic and inorganic chemical components, and vitamin content are given, as well as summary tables and a bibliography.

The first fascicle of the **Atlas of Tumor Pathology** (SCIENCE, January 13, 1950) is now available. The **Atlas**, which is being prepared under the editorial supervision of the Subcommittee on Oncology of the NRC, is a cooperative effort of 30 eminent pathologists, and will be made up of chapters published separately in a loose-leaf format.

The fascicle **Tumors of the Peripheral Nervous System**, by Arthur

Purdy Stout, of the Columbia University College of Physicians and Surgeons, may be obtained for 60 cents from the American Registry of Pathology, Armed Forces Institute of Pathology, Washington 25, D. C. Included is the table of contents of the complete *Atlas* and the introduction explaining the purpose of the entire project—to provide an illustrated and descriptive aid in the teaching of oncology, and a simplification and standardization of the nomenclature of neoplastic diseases.

## Deaths

**André Gratia**, 57, professor of bacteriology in the Faculty of Medicine, University of Liège, since 1932, died on October 6 following a cerebral hemorrhage which occurred while he was vacationing in Switzerland.

**Günther Just**, professor of human genetics at the University of Tübingen, since 1948, died August 30, at the age of 58, in Tübingen. He was formerly associated with the Universities of Berlin and Greifswald.

**Eckhard Rotmann** died in August at Köln-Hohenlind after a brief illness, at the age of 43. Formerly a member of Hans Spemann's Institute of Zoology at Freiburg, he was director of the Laboratory for Experimental Embryology of the University of Cologne, Germany.

The former president of the Carnegie Institute of Technology, **Robert Ernest Doherty**, died October 19 in Scotia, N. Y., at 65. Originator of the Carnegie Plan, which requires students to solve specific problems rather than concentrate on texts and lectures, Dr. Doherty more than doubled the Carnegie endowment and carried through major administrative reorganizational programs.

**Merritt Lyndon Fernald**, 77, Fisher professor of natural history, emeritus, and former director of the Gray Herbarium of Harvard University, died in Cambridge, Mass., September 22. As the leading authority on the flowering plants of eastern North America, he had just completed the monumental rewritten

and expanded eighth edition of Asa Gray's *Manual of Botany*. He was well known to botanists and geologists for his thesis that living plants persisted through the ice age in boreal North America on land exposed above the ice sheets. Professor Fernald was associated with Harvard as student, teacher, and scientist for nearly 60 years.

Recognizing the need "to insure maximum utilization for national defense purposes of our resources of scientists and skilled personnel" and "to maintain our resources of technical manpower as intact as possible," **Lawrence R. Hafstad**, chairman of the government's Interdepartmental Committee on Scientific Research and Development, has just submitted committee recommendations to W. Stuart Symington, chairman of the National Security Resources Board, in an effort to deal with the critical situation. The committee report states that "sure and effective means must be provided to: (a) maintain a continuous flow of young men and women into the scientific professions at least until the shortage of fighting manpower becomes acute; and (b) make optimum use, at all times, of fully trained scientists and engineers in research and development both in the Defense Establishment and in essential civilian activities.

"The Committee believes that the most effective means of meeting these needs is to establish at once a National Scientific Service. This Service should be managed by a board of outstanding men and women, representing the major scientific and engineering disciplines, the military services and other essential fields."

Among the specific recommendations are deferment of professional and practicing scientists and engineers possessing at least a Bachelor's degree or equivalent training in one of the scientific fields, and of skilled technicians; maintenance of the number of science and engineering students "at a level at least equal to the total enrolled in 1949 or 1950"; registration of all scientists and engineers; guidance of the entire pro-

gram of maintenance and utilization of scientific manpower by the proposed National Scientific Service and administration of the program by the National Security Resources Board.

A very limited number of the complete series of *Excursion Guides* from the Seventh International Botanical Congress is available to libraries and botanical institutions until April 1, 1951. Copies remaining after that date will be available to individuals. Price for a complete series, 25 Swedish kronor. A limited number of copies of *Rob. E. Fries: A Short History of Botany in Sweden* are available to libraries, botanical institutions, and to individuals for 10 Swedish kronor. *Communication No. 4* (including the General Program) is available at the price of 2 Swedish kronor. These can be obtained from Dr. Ewert Aberg, Office of the Secretary General, Seventh International Botanical Congress, Uppsala 7, Sweden.

The formation of *Association des Ecrivains Scientifiques* in Paris makes France the fifth country to organize a science writers' association. Set up with the assistance of the Division for the Teaching and Popularization of Science in Unesco's Natural Sciences Department, the new body has as its Président d'Honneur, Prince Louis de Broglie, Secrétaire Perpétuel de l'Académie Française. Chairman of the new association is François Le Lionnais, and André Fortin is secretary.

*Applied Mechanics Reviews*, formerly edited at Illinois Institute of Technology, has been transferred to Midwest Research Institute, Kansas City, Mo., with Martin Goland as editor. The publication, which presents critical reviews of world literature in applied mechanics, is published by the American Society of Mechanical Engineers, in cooperation with the Office of Air Research, Midwest Research Institute, American Society of Civil Engineers, Institute of Aeronautical Sciences, American Institute of Physics, American Mathematical Society, Society for Experimental Stress Analysis, the Engineering Institute of Canada, and the Institution of Mechanical Engineers, of Great Britain.