

patient are shown collectively in Fig. 8. The echogram of the normal right thigh is shown to the right. The two-dimensional echoscope (Fig. 5) was positioned in a comparable site on the left thigh in such a way that the sound beam swept from normal into tumor tissue. The two-dimensional echogram shown to the left in Fig. 8 was obtained. The signals X-X were believed to arise from the growth as the sound beam swept into it. These signals were almost continuous in the negative. Had the apparatus reached a greater state of perfection, the tumor might have been revealed by echo patterns within the area enclosed by the cross-lines inserted on the record.

Further development of the methods described for examination of living, intact, biological tissue in such a manner as to reveal structure in depth should be of great value in many branches of biology. The immediate application of echography to the detection of tumors in accessible sites in the living intact human organism is envisaged.

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News and Notes

The Wenner-Gren Summer Seminar in Physical Anthropology

FOR the past six summers a changing group of physical anthropologists and allied specialists has met by invitation at the Wenner-Gren Foundation for Anthropological Research (formerly the Viking Fund) through the foundation's generous support. These seminars have been organized and led by S. L. Washburn, of the University of Chicago.

The purpose of the sessions has been to examine the theoretical bases of the whole subject, the validity of its methods, the transfer of techniques and results from other fields, and the application of all these to specific data. The goal is to outline both key problems of the field and the most fruitful approaches to their solution. The first few sessions were designed to clarify aims and terminology and to analyze some of the assumptions, techniques, and methods of investigation and interpretation, using concrete examples. Foreign as well as American specialists have attended to demonstrate new fossil material and new methods.

The concurrent *Yearbook of Physical Anthropology*, edited by Gabriel W. Lasker, describes each session. The work of the first four seminars was theoretical in aim: evaluation of process and critical scrutiny of various classificatory, experimental, and genetic concepts, and of assumptions both long-accepted and novel; the first three concentrated on human evolution, race, constitution, and growth. The fourth seminar, more specific, was divided into two main topics: the Australopithecinae of South Africa, and methods used in study of the American Indian. The fifth differed in being exclusively concerned with techniques and materials, which were considered under three main heads: (1) new ways of dating fossil and archaeological material, including C¹⁴, fluorine salt concentration, and spectrographic analysis; (2) improvements on, and additions to, existing techniques in anthropometry; (3) statistical handling of data and problem planning.

The sixth seminar was a synthesis of the work of the first five. Its aim was to reach agreement on what would make a reasonably balanced program for graduate students in physical anthropology, covering the field in terms of its subdivisions. The 1951 meetings did much to shape the philosophy of a more unified physical anthropology. Among tangible results are a series of brief statements representing prevailing points of view, an outline of areas needing further research to reach agreement, and minimal reading lists, which were amended through suggestions sent in by nonattending members of the American Association of Physical Anthropologists. These are published in the *Yearbook of Physical Anthropology*, 1950.

A summary of major topics at this seminar follows:

1) *Human genetics* is basic in understanding human evolution (process of interaction between mutation, changing population size, genic loss, mixture, selection, and isolation) and race differentiation as an evolutionary product. Analyses of the same populations by phenotypic and genetic methods should give the same results, but until genes and growth processes involved in functional trait constellations are better understood, further race classification means little, although blood group analyses already give a partial check. Since genetic analysis has to use specific anatomical characters, and since the phenotypic concept of race is a constellation of overlapping trait groups held together in unstable combinations in breeding isolates of widely varying size, the two approaches are less antithetical than they seem, and phenotypic similarity may continue to suggest biological relationship. It is now essential to learn more of breeding patterns and to multiply our knowledge of specific human characters.

2) *Primate studies*, comparative and experimental, bear on the development, ecology, and physiological functioning of man and can apply to medical and growth problems involving relation of form to function.

3) *Fossil primates and fossil man* have prompted new studies in which emphasis has shifted from comparative description to the evolutionary processes involved. A grasp of the history of evolutionary theory is also neces-

sary to assess past work in the light of modern findings.

4) *Measurement* must remain a descriptive technique and not a categorizing one. For specific problems new measurements must be devised, and, except where simple description is an end in itself, a complex of changed measurements resulting from a single variation or adjustment to environment must be identified correctly as a unit.

5) *Growth* now includes prenatal development and senile degeneration. Particular attention must be given to differential rates of change in parts and complexes. The number of variables affecting growth must be reduced by such methods as matched pair and twin studies, plus such statistical treatment as factor analyses and discriminant functions.

6) *Constitution* concerns variation among individuals, with wider implications than in the Sheldonian system, the assumptions of which have not been validated and need modification to avoid oversimplified fallacy. In special need of research with more precise techniques are the tenuous relationships between body build and psychotype, on the one hand, and physiological, genetic, and social patterns on the other.

7) *Human ecology*, in stressing the relationship of the human organism to its total environment, becomes a point of view that links biological and social aspects of anthropology.

8) *Applied physical anthropology* need not constitute a separate subfield, since all studies should have varying degrees of applicability and of theoretical significance.

9) *Race* is not a subfield apart from the evolutionary processes that unite all the subfields discussed, because race differences are simply different balances among selective forces, mutations and genic loss, and ecological history of breeding groups.

Physical anthropology emerges as neither static nor purely descriptive, but as increasingly concerned with total human biological dynamics.

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Scientists in the News

W. A. Aitken, of Merrill, Iowa, has joined the staff of the American Veterinary Medical Association as editor-in-chief of publications. Included in the publications coming under his supervision is the *Journal of the American Veterinary Medical Association*. Dr. Aitken was engaged in the general practice of veterinary medicine in Merrill for 21 years prior to accepting this appointment.

William H. Bessey, formerly with the Carnegie Institute of Technology, has been appointed associate professor of physics at the Missouri School of Mines and Metallurgy.

R. S. Breed, professor emeritus of bacteriology (Cornell University), Geneva, N. Y., has tendered his resignation as permanent secretary for nonmedical bacteriology to the International Committee on Bac-

teriological Nomenclature. Professor Breed was designated as a permanent secretary of this committee at the First International Congress of Microbiologists held in Paris in 1930, and has filled the position for 21 years. He asked to be relieved of his duties so that he may devote his full time to the preparation of the seventh edition of the *Bergey Manual of Determinative Bacteriology*, of whose editorial board he is the chairman. Torsten Wikén, director of the Institut für landw. Bakteriologie und Gärungsbiologie at the Swiss Federal Institute of Technology in Zurich, has been chosen to succeed him. Dr. Wikén, who studied at the University of Uppsala, and was later assistant in the limnological laboratory of the University of Lund and at the Institute of Medical and Physiological Chemistry at Uppsala, is associate professor of plant physiology and anatomy.

The Buffalo Surgical Society has presented the Roswell Park Memorial Medal, for "outstanding surgical achievement," to Edward D. Churchill, of Boston. Dr. Churchill, fifth recipient of the award, delivered the annual Roswell Park Lecture, entitled "The Architectural Basis of Pulmonary Ventilation," at the presentation ceremonies.

James De Juren has joined the Atomic and Radiation Physics Division of the National Bureau of Standards, to assist in the program of calibrating neutron standards and neutron detectors against the National Neutron Standard. Dr. De Juren has been at the University of California Radiation Laboratory.

Augusto Durante, mining and civil engineer from Brazil, is in this country, representing the Institute of Geology and Geography under the Brazilian Secretary of Agriculture. He is on leave of absence from the institute and, with the cooperation of the U. S. Geological Survey, he will visit field offices of the Survey in Louisville, Baton Rouge, Houston, Austin, Silver City (N. Mex.), and Denver, as well as the Washington, D. C., headquarters.

The following were recent visitors at the Eastern Regional Research Laboratory of the Agricultural Research Administration at Philadelphia: Antonio B. O. Estevez, Merck & Company, Rio de Janeiro; K. H. Shindler, European Industrial Products, Toronto; and Francisco D. Santana, Philippine Islands.

Matti Olavi Franssila, chief of the weather forecasting section of the Finnish Department of Meteorology and lecturer at the University of Helsinki, will serve as project coordinator at the University of Wisconsin during the coming year. Dr. Franssila came to the U. S. at the invitation of Verner Suomi, chairman of the Department of Meteorology, and will work closely with Dr. Suomi and Reid Bryson. He is a specialist on microclimatology.

Curtis M. Hilliard, professor of biology and public health at Simmons College since 1914, will retire on June 30. Philip M. Richardson, of Wellesley, professor of biology, who has been on the Simmons

faculty since 1930, will succeed him. Dr. Hilliard will continue to serve as supervisor of health for Wellesley, Weston, and Needham.

F. Houtermans, of the Max Planck Institute, Göttingen, has accepted a professorship in the Physics Department of the University of Bern. Dr. Houtermans is a nuclear physicist whose recent research has been concerned with age determinations by radioactive methods.

Thomas J. Killian has been appointed chief scientist of the Office of Ordnance Research at Duke University. Before his appointment to the ordnance post, he was science director and deputy assistant chief for research, ONR, Washington. Dr. Killian will head a group of scientists in directing and coordinating the Army Ordnance Corps' basic research program.

Vernon B. Link has been designated deputy officer in charge of the Communicable Disease Center, USPHS, Atlanta, succeeding **Justin M. Andrews**, who was deputy officer in charge for six years. Dr. Link was transferred to Atlanta from San Francisco, where for more than a year he has headed the center's plague investigations section. **Chris A. Hansen** has been designated executive officer, succeeding **Wesley E. Gilbertson**, who has been transferred to Washington; and **Jean S. Grant** has been designated assistant to the officer in charge.

Millicent C. McIntosh and **John Olin** have been elected to the Board of Trustees of the American Museum of Natural History. Mrs. McIntosh, dean of Barnard College, is the first woman elected to the Board of Trustees since the museum was founded in 1869. Mr. Olin is president of Olin Industries, Inc., of East Alton, Ill.

H. D. McKay, formerly an executive of the Vick Chemical Company, has become an independent management consultant. His retirement Feb. 1 terminated 36 years with Vick, 22 years of which he served as a director.

Amos C. Michael has been appointed associate professor of pathology in the school of medicine of the University of South Dakota. He was associated with the Department of Pathology at Indiana University prior to his present appointment.

Jacob Millman, formerly associate professor of electrical engineering at the College of the City of New York, has been appointed professor of electrical engineering at Columbia University.

J. H. Moses has been appointed chief geologist of the Reynolds Mining Corporation. Dr. Moses succeeds **Carl Schmedeman**, who died suddenly in December while on a business trip to Mexico.

G. P. S. Occhialini, of the Free University of Brussels and the University of Genoa, has been invited to go to Rio de Janeiro to participate in cosmic-ray research at the Nuclear Physics Institute. He is

planning to spend about four months there before returning to Europe.

Don K. Price, associate director of the Public Administration Clearing House, has been named deputy chairman of the Department of Defense Research and Development Board. He succeeds **James A. Perkins**, who is returning to his position as vice president of the Carnegie Corporation of New York. Dr. Perkins will continue to serve the board in a consultant capacity. Mr. Price is a member of the Board of Directors and of the Executive Committee of the Social Science Research Council.

Robert William Quinn, associate professor of preventive medicine, University of Wisconsin Medical School, has been appointed professor and head of the Department of Preventive Medicine and Public Health at Vanderbilt Medical School. **Alvin E. Keller**, who has been acting head of the department, will continue as associate professor of preventive medicine and public health.

Robert Redfield gave a series of Messenger Lectures at Cornell on "The Primitive World and its Transformations." Dr. Redfield is professor of anthropology at the University of Chicago, and this year is to be an exchange professor at the University of Paris.

Irving G. Rosenberg has been appointed director of operations of Allen B. Du Mont Laboratories, Inc. He will be in charge of the television receiver and cathode-ray division. He joined Du Mont in 1942 and in his latest post was manager of the cathode-ray division.

J. Allen Scott, professor of statistics and epidemiology and director of the recently organized Laboratory of Helminth Research at the University of Texas Medical Branch, Galveston, has been appointed a member of the WHO Expert Advisory Panel on Parasitic Diseases.

A. J. Sharp, long a member of the Department of Botany at the University of Tennessee, has been appointed head of the department, and **Gordon E. Hunt**, of Cornell, has joined the staff as plant physiologist.

Joseph Trapold, formerly with the Department of Pharmacology, University of Tennessee, and **Alfred Renzi**, formerly with the Department of Biology, Syracuse University, are now associated with Ciba Pharmaceutical Products, in the Division of Macrobiology.

J. J. Wanderstock, assistant professor of animal husbandry at the Cornell University Agricultural Experiment Station, has joined the staff of the School of Hotel Administration, Statler Hall, Cornell University, where his primary responsibility will be with work in meats, poultry, and fish.

Dare A. Wells, University of Cincinnati professor of physics, has been granted a leave of absence to accept the invitation of the University of Córdoba,

Argentina, to serve as visiting professor of physics there for six months. Dr. Wells will give a graduate course in Lagrangian dynamics and a course in atomic physics. He has also been asked to assist the university in reorganizing its graduate program in physics.

Oram C. Woolpert has been appointed executive director of the Ohio State University Research Foundation. A former Ohio State faculty member, he has resigned as director of the Army's research center in biological warfare, Camp Detrick, Md., to assume the university post, in which he succeeds **James S. Owens**, who resigned Dec. 31. Dr. Woolpert will direct activities of the nonprofit institution which administers cooperative research projects under industrial and governmental sponsorship. During the past fiscal year, the foundation carried on 52 projects for industrial organizations and 99 for governmental agencies under contracts totaling more than \$2,000,000.

Paul Zinner, regional director of Region V at Minneapolis, has been appointed chief of the Minerals Division of the U. S. Bureau of Mines in Washington, succeeding **Lowell B. Moon**, who has resigned to accept a position with the Kennecott Copper Corporation. **Paul T. Allsman**, who has been with the Denver office of the bureau, will fill the regional directorship at Minneapolis vacated by Mr. Zinner.

Education

The former corvette *Sackville* has been commissioned as an oceanographic vessel and assigned to the **Atlantic Oceanographic Group** at St. Andrews, N. B. She has been equipped with the latest navigational and scientific instruments and will aid in cooperative studies of the Atlantic and Pacific oceans under the sponsorship of the Canadian Joint Committee on Oceanography, which is composed of representatives of the Fisheries Research Board, the Hydrographic Service, the National Research Council, and the Royal Canadian Navy.

Effective for the 1952-53 academic year, daughters of electrical workers will be eligible for four-year scholarships at **Barnard College**, followed by two years at an approved school of medicine or dentistry. This is an extension of the joint labor-management project launched by the Joint Industry Board of the electrical industry in 1949 for the sons of electrical workers who wish to study engineering at Columbia. Such scholarship holders may now substitute the study of medicine or dentistry upon graduation.

Duke University will offer for the second summer a course in acarology, from Aug. 18 to Sept. 5. It is designed for advanced students, and particularly for professional entomologists, parasitologists, and zoologists who wish to know more about the Acarina. Special emphasis is placed on species of medical or economic importance. Further information may be obtained from G. W. Wharton, Department of Zoology.

At the **University of Maryland** the Institute for Fluid Dynamics and Applied Mathematics public lectures began on Feb. 19 with **Adolf Busemann** as the speaker. **Sydney Chapman**, of Queen's College, Oxford, will speak Mar. 11, 12, and 13; **Marshall H. Stone**, University of Chicago, April 29 and 30, and May 1; **George E. Uhlenbeck**, University of Michigan, May 5, 6, and 7; and **Mark Kac**, of Cornell, May 13, 14, and 15. The institute will also sponsor a meeting on Elasticity Mar. 21-22.

A field course in plant taxonomy and ecology will be offered by the Department of Botany at the **University of Michigan** June 23-Aug. 16. Instructors and students, traveling by bus, will investigate botanical variations, floristic composition of major areas, and dynamics of individual plant communities in Indiana, Illinois, Missouri, Oklahoma, and the Texas Big Bend country. **Rogers McVaugh**, **Elzada U. Clover**, and **Pierre Dansereau** (to whom inquiries should be addressed) will comprise the staff. Applications for the course should be mailed before Apr. 1, accompanied by a deposit of \$40.00 for Michigan residents and \$100 for nonresidents.

North American Philips Company, Inc., will hold its twelfth semiannual X-ray Diffraction School at its plant, 750 S. Fulton Ave., Mt. Vernon, N. Y., Apr. 21-Apr. 25. Basic subjects covered will be new high- and low-temperature camera techniques, fluorescence analysis, Geiger counter, X-ray spectrometer, and electron microscopy and diffraction. Those interested in attending the school should register with the company at once.

The **Nieuwland Lectureship**, established at **Notre Dame** in 1946 in memory of the famous chemist and botanist, will be held this year by **Selman Waksman**, who will lecture on Mar. 31 and Apr. 1 and 2 on the general topic of "Actinomyces and their Antibiotics."

Roosevelt College will present six lectures in a public institute on "New Frontiers of Science and Industry." **Victor Conquest**, of the Armour Research Division, spoke on Feb. 27, and **Harold Urey**, of the University of Chicago, will speak on Mar. 5. Other speakers will be **Leonard F. Yntema**, of **Fansteel Metallurgical Corporation**, Mar. 12; **A. L. Elder**, of **Corn Products Refining Company**, Mar. 19; **George Hartmann**, of **Roosevelt**, Mar. 26; and **William W. Bauer**, of the **American Medical Association**, Apr. 2.

Robert A. Moore, dean of the **Washington University School of Medicine** and president of the **American Association of Pathologists and Bacteriologists**, has left for Bangkok, where, as director of the **Washington University-Thailand** medical schools teaching assistance program, he will spend four weeks delivering lectures in pathology and observing results of the exchange program. Of the ten Washington U faculty members who went to Bangkok last summer (*SCIENCE*, 113, 540 [1951]), eight are still in residence and will

remain until June, when they will be replaced by other faculty members. Twenty-two Thai students have enrolled at the St. Louis school.

Grants and Fellowships

Baxter Laboratories, Inc., Morton Grove, Ill., are offering ten fellowship grants for graduate research in the basic medical sciences and related disciplines. Students now holding other fellowships or scholarships are eligible. Application forms (returnable by Apr. 1) may be obtained from the Fellowship Committee of the laboratories.

Imperial Chemical Industries Limited, publishers of the scientific review *Endeavour*, are offering, as a contribution to the meeting of the British Association for the Advancement of Science to be held in Belfast Sept. 3-10, a sum of 100 guineas to be awarded as prizes for essays on scientific subjects. The competition is restricted to scientists under 25. Five prizes will be awarded, and successful competitors will be invited to attend the Belfast meeting, at which the prizes will be presented. Their expenses within the U. K. will be paid. Closing date for receipt of entries is June 2. For full information, write to the Assistant Secretary, BAAS, Burlington House, Piccadilly, London, W. 1.

Jefferson Medical College and Hospital, of Philadelphia, will have a fellowship in obstetric and gynecologic endocrinology available July 1. At least one year of preliminary training in the field is required. Requests for application blanks should be sent at once to Lewis C. Scheffey, chairman, Department of Obstetrics and Gynecology.

The Bell Telephone Laboratories **Frank B. Jewett Postdoctoral Fellowships** for 1952-53 have been awarded to Murray Gerstenhaber (mathematician), of Harvard and New York City; Ernest M. Henley (physicist), of the University of California and Forest Hills, N. Y.; Emin T. Onat (mathematician), of Brown University and Yenisehir-Ankara, Turkey; Henry Helson (mathematician), of Yale and New Haven; and Paul N. Schatz (chemist), of Brown University and Philadelphia. Dr. Gerstenhaber was also among the winners last year.

March of Dimes funds amounting to more than one and three quarter million dollars will aid research and teaching institutions throughout the U. S. and Canada in their studies of poliomyelitis and in the training of professionals to carry on research and provide adequate patient care. Largest amounts went to the University of Pittsburgh, where Jonas E. Salk, research professor of bacteriology, will carry on research; and to the University of Michigan, for work under the direction of Thomas Francis, Jr., professor of epidemiology.

A New York Puerto Rican Scholarship Fund has been established to provide funds for graduate and undergraduate work for both men and women of exceptional ability. Raymond M. Hilliard, director of

the Welfare Council, and Henry L. McCarthy, Commissioner of the New York City Department of Welfare, were incorporators of the fund; other fund members belong to the Mayor's Committee on Puerto Rican Affairs in New York. An exhibit by Puerto Rican artists and a musical program will be held Apr. 15 at Hunter College to assist the fund.

Sandoz Pharmaceuticals Company, of New York, has made a grant to H. R. Henze, of the Department of Chemistry, University of Texas, and G. A. Emerson, of the Medical Branch of the University of Texas, Galveston, who will collaborate in the investigation of drugs to treat epilepsy and other convulsive ailments.

Sharp & Dohme has made a grant in support of the work of Edwin L. Rushia, University of Arkansas, in the anesthesiology of two of its products, Aramine, a vasoconstrictor, and Cyclaine, a local anesthetic. The pharmaceutical firm will also support clinical investigation of a new antibiotic agent for the treatment of bovine mastitis. The work is being done by A. R. Drury, of Michigan State College, for the Michigan State Board of Agriculture.

The **Society of Women Engineers**, organized in 1949, will initiate its first award in 1952. An SWE Award will be conferred upon a woman who has made a significant contribution to engineering practice, research, education, or administration. Nominations will be accepted from society members or from nonmembers familiar with the field.

Four **Westinghouse War Memorial Scholarships** are open to sons of Westinghouse employees who have not less than five years of service (Class A) and to employees of the company with at least two years of continuous service prior to May 1, 1952 (Class B). Class A applicants must be in their senior year in high school or must have graduated since Nov. 1, 1951; Class B applicants may not be over 23, except in the case of veterans. Filing of an application for the fellowships also automatically registers the applicant for consideration for the George Westinghouse Scholarships.

In the Laboratories

Beckman Instruments, Inc., has purchased 40 acres in the Fullerton-La Habra (Calif.) area for the construction of a new research and manufacturing center. Long-range plans include centralization of the various Beckman divisions—the Helipot Corporation, manufacturer of precision potentiometers, and Arnold O. Beckman, Inc., manufacturers of an oxygen analyzer and various radiation detectors. The Beckman operations are at present distributed over 14 different locations in the Pasadena area.

Central Scientific Company will soon occupy its new Los Angeles plant on Telegraph Road, which will be linked by teletype to Cenco branches in San Francisco and Santa Clara, as well as to the main offices and factory in Chicago.

Ethyl Corporation research laboratories have appointed Edward J. Johnson staff assistant to Harold Soroos, superintendent of Chemical Services. Theodore J. Carron succeeds him as head of the Chemical Engineering Section.

Lester C. Higbee, formerly secretary and director of engineering for W. & L. E. Gurley, manufacturers of engineering and scientific instruments, has been elected president of the firm. Charles E. Smart, retiring president, will serve as chairman. Robert G. Betts was elected to the new office of executive vice president, Daniel Harkness was named secretary, and William A. Rockefeller assistant treasurer.

New laboratories for the Koppers Co., Inc., are nearing completion in Verona, Pa. The company is building a pilot plant to make gasoline from coal by hydrogenation, a process using powdered coal in a slurry, reactions taking place under high pressure. Particular emphasis will be put on the production of various chemicals.

Meetings and Elections

A Northern New York Section, with headquarters in Potsdam, becomes the 139th local section of the American Chemical Society, which now has 67,000 members in all states, the District of Columbia, Puerto Rico, and Hawaii. Francis W. Brown was elected chairman. Other officers are: vice chairman, Donald G. Powell, and secretary-treasurer, William K. Viertel.

The Division of High-Polymer Physics of the American Physical Society will meet in Columbus, Ohio, Mar. 20-22. Two symposia and three sessions for contributed papers have been arranged. Maurice L. Huggins has been elected division chairman, and Raymond F. Boyer vice chairman. W. J. Lyons was re-elected secretary-treasurer.

The fifth annual Industrial Microbiology Institute will be held at Purdue University July 21-26. The institute is designed particularly for industrial and university scientists who are working with molds and fungi and their identification and control. In addition to the Purdue staff, Joseph C. Gilman, president-elect of the American Mycological Society, David Gottlieb, and H. B. Woodruff will speak. Inquiries will be answered by the Division of Adult Education.

The International Council of Women Psychologists has elected Lillian Portenier president for 1952-53 and Dorothy Van Alstyne and Margaret Ives vice president and secretary-treasurer, respectively. Tomika Wada Kora, of Tokyo, and Katharine Banham, Clara C. Cooper, and Helen Shacter were elected to the Board of Directors.

A seminar on the results of the International Wool Research Project will be held Apr. 7-9 at Lowell Textile Institute under the auspices of the Wool Bureau, Inc. Industry representatives or others interested in wool science and technology are invited to

attend, and may obtain further information from Giles E. Hopkins, 16 W. 46th St., New York 19.

A National Colloid Symposium, the 26th, sponsored by the ACS Division of Colloid Chemistry, will be held at the University of Southern California June 16-18. Most of the program will be made up of invited papers, but contributed papers will be considered by the Symposium Committee, of which W. O. Milligan, Rice Institute, Box 1892, Houston 1, Texas, is chairman. Prospective authors should send to the chairman, prior to Apr. 1, a tentative title and, prior to Apr. 15, three copies of a 200-word abstract.

The Wallace Clark Award of the National Management Council, for distinguished contributions to scientific management in the international field, was given to René de Valliere, of Zurich, at its annual meeting in January. The Swiss consul general, Frederick Cygas, accepted the award for Professor de Valliere. A. M. Lederer was elected president of the council, succeeding Edridge Haynes; Harold F. Smiddy, Marcell N. Rand, and Erwin H. Schell were elected vice presidents; and Fred Rudge and Allen Ottman were re-elected secretary and treasurer, respectively.

The National Society for Medical Research, meeting in Chicago in February, re-elected Anton J. Carlson president and Andrew C. Ivy secretary-treasurer. Seventeen organizations were added to the roster of member associations. William Bachrach, of the University of Southern California, Leo Brown, of the American Medical Association, John Paine, of Buffalo General Hospital, the Chicago *Tribune*, and the Chicago *Sun-Times* were voted awards for outstanding service to medical science.

At the close of the American Medical Association meetings in Los Angeles, Max Sadove was elected organizing president of the Walter Reed Society (*SCIENCE*, 114, 476 [1951]). Clinton H. Thienes, Lloyd D. Seager, and John P. McGovern were elected vice presidents, and Betty Jenney was elected secretary-treasurer.

Sigma Gamma Epsilon, national honorary professional fraternity for college students of the earth sciences, elected Clark B. Carpenter president at its biennial meeting in Hot Springs, Ark., last December. Edward V. O'Rourke, J. Norman Payne, and Bronson Stringham were elected vice presidents, William R. Higgs secretary-treasurer, Paul D. Proctor editor, and Ralph E. Esarey historian.

The Torrey Botanical Club has elected the following officers: president, Marion A. Johnson; vice presidents, Murray Buell and Lindsay M. Black; secretaries, Jennie L. S. Simpson and Donald P. Rogers; treasurer, Elva Lawton; editor, Charles A. Berger. P. W. Zimmerman and R. H. Cheney will continue as AAAS Council representatives.