

actually far less so. They do permit accurate results to be arrived at more rapidly than is true of the old-fashioned method of simply distributing drugs to practically everybody and gradually, by trial and error, arriving in decades or centuries at an approximation of the truth.

To take an example, after all the centuries morphine (or opium) has been used, "common sense" in this country has arrived at a dose that is twice as large (15 mg) as the one that gives essentially the maximum pain relief (8 mg). It is true that in the common-sense method the cost of the evaluation is borne not by the manufacturer but by the public. It is also true that in the case of morphine (opium) the correct result was approximated in hundreds of years, and the conclusion is about 100 per cent off. I believe we can and should do better than this.

There is a great field for study here, but it is a field where there are many obstacles: legalistics to hamper the investigator; ignorance of the relationships between chemical constitution and biological action to slow him down; chance or coincidence to be forced into the open only by intricate and laborious

statistical methods. Painstaking and tedious work is necessary. It is a costly field, but one that promises to yield on cultivation an astonishingly rich harvest.

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News and Notes

Scientists in the News

Frank Aydelotte, for 35 years American secretary to the Rhodes Scholarships, will retire Jan. 1. **Courtney C. Smith**, assistant professor of English at Princeton University, will succeed Dr. Aydelotte. A former Rhodes scholar, Dr. Aydelotte has worked closely with the Rhodes scholarship system and the Oxford plan of education in addition to his duties first as president of Swarthmore College and then with the Institute for Advanced Study. In addition to his duties as American secretary, Dr. Aydelotte, a former editor of the *American Oxonian*, has been president of the Association of American Rhodes Scholars since 1930 and was re-elected last May.

Brian Blades, professor of surgery at the George Washington University of Medicine, is principal investigator on four projects supported by grants totaling \$27,099. A grant of \$6606 has been received from the U. S. Army Surgeon General's office to permit studies on factors of safety in intra-arterial transfusions. Dr. Blades will be assisted by **Howard Pierpont**, director of the Surgical Research Laboratory of the School of Medicine. A grant of \$11,005 from the USPHS will be used for research in the restoration of blood vessels injured by disease or a wound. Other investigators on this project are **William S. McCune**, associate clinical professor of surgery, and Dr. Pierpont. Another USPHS grant of \$10,249 will permit research in reconstruction of the

aortic arch through surgery and the use of grafts or synthetic materials, and a grant of \$9239 from the Veterans Administration will further studies of liver circulation.

Kenneth A. Clendenning has been appointed research plant physiologist on the staff of the Charles F. Kettering Foundation for the Study of Chlorophyll and Photosynthesis at Antioch College. Dr. Clendenning was formerly head of the Plant Science Section, Division of Applied Biology, National Research Laboratories, Ottawa.

Paul L. Copeland, acting chairman of the Physics Department at Illinois Institute of Technology, has been appointed chairman. He has been at the institute since 1937.

William L. Doyle has joined the staff of the Research Institute of Temple University in the capacity of full-time research scientist in high temperature work. An expanding program is planned in this field under an Office of Naval Research project. Mr. Doyle has been consultant at the Research Institute since last January. He was formerly in charge of rocket development at Ohio State University and worked with North American Aviation on liquid rocket fuel development.

John Fletcher, a specialist in varnishes and synthetic resins, has joined the staff of National Research Corporation, Cambridge, Mass. Mr. Fletcher will

work with protective coatings used in the vacuum metallizing process. He was formerly associated with Arthur D. Little, Inc.

Paul W. Kinney has been named director of product information for J. T. Baker Chemical Co. For the past eight years Mr. Kinney has been with General Aniline & Film Corporation as senior research chemist and engineer in the product development department.

H. B. Klevens, of the University of Minnesota, has been spending the past year in Paris as a Fulbright advanced research scholar. He will present a series of lectures at a number of laboratories in England, Holland, Denmark, and Sweden before returning to the U. S. this fall.

Granvil C. Kyker, professor and head of the Department of Biochemistry and Nutrition, School of Medicine, University of Puerto Rico, has been appointed principal scientist of the Medical Division, Oak Ridge Institute of Nuclear Studies. Dr. Kyker succeeds **H. D. Bruner**, who left Oak Ridge July 1 to become professor and chairman of the Department of Physiology, Emory University Medical School.

G. Allen Mail, entomologist, CDC Vector Control and Investigations, U. S. Public Health Service, assigned to Charleston, W. Va., has been transferred to the Water Projects Section, Mitchell Field Station, Mitchell, Neb.

John B. Miles has been named textile development engineer for the Research and Development Department of the Chemstrand Corporation. Dr. Miles was assistant secretary and technical director for Delaware Research and Development Corporation, New Castle, following 21 years in research and development of nylon for Du Pont.

Jesse D. Perkinson, Jr., senior scientist in the Medical Division of the Oak Ridge Institute of Nuclear Studies, has joined the staff of the University of Tennessee Medical Units in Memphis, where he will be an associate professor in the Department of Biochemistry. Dr. Perkinson was an assistant professor of biology at the University of Georgia before joining the staff at Oak Ridge.

Samuel Soskin is resigning as director of the Medical Research Institute of Michael Reese Hospital, Chicago, and as dean of the hospital's postgraduate school Sept. 1, to enter private practice in his specialty (diabetes and other metabolic and endocrine disorders) in the Los Angeles area. He has been a staff member of the hospital since 1929, when he was appointed director of metabolic and endocrine research. From 1943 to 1950 Dr. Soskin served as medical director of the institution. He will continue as editor-in-chief of *Metabolism*, and will devote time to research and teaching as well as to his practice.

Kurt G. Stern, Polytechnic Institute of Brooklyn,

lectured on Physical-Chemical Studies on Nucleic Acids and Nucleoproteins before the Société de Chimie Biologique in Paris on July 8. Following his address he was presented with the society's Pasteur Medal.

Parker D. Trask, research engineer in the Department of Engineering on the Berkeley campus of the University of California, has left for South America, where he will conduct an important geological engineering investigation for the Peruvian government. Peru is planning a large-scale water resources development program, and Dr. Trask has been asked to head a mission to make a general appraisal of the possibilities and problems of the proposed project. Dr. Trask will establish headquarters in Lima, and expects to be on leave from the university for three months.

Vincent Brian Wigglesworth, reader in entomology and director of the Agricultural Research Council Unit of Insect Physiology at Cambridge, has been appointed Quick professor of biology in the university. Professor Wigglesworth was a member of the staff of the Department of Entomology in the London School of Hygiene and Tropical Medicine during 1926-44.

Israel Zelitch has joined the Department of Biochemistry, and **Harry T. Stinson, Jr.**, is the newest staff member of the Genetics Department, of the Connecticut Agricultural Experiment Station. Dr. Zelitch has been at New York University, where he worked for a year on a National Research Council fellowship under the direction of Severo Ochoa. At the Connecticut station, he will conduct research on the enzyme systems of leaves. Dr. Zelitch's appointment fills the vacancy left by the resignation of **Chester Hargreaves, Jr.**, who has accepted a post at Yale. Dr. Stinson was a member of the staff of the Department of Botany at the College of William and Mary. His field is cytogenetics, and he will continue his research in this field, with particular attention to cytoplasmic inheritance.

Education

The University of Kansas has promoted Henry S. Fitch from assistant professor of zoology to professor and superintendent of the Natural History Reservation. Harrison B. Tordoff has been promoted to assistant professor of zoology and assistant curator in ornithology in the Museum of Natural History.

Manchester University, England, will be given a new steerable radio telescope, at an estimated cost of £336,000 to be shared by the Nuffield Foundation and the Department of Scientific and Industrial Research. The instrument, which will not be ready for use until 1956, will be installed at the Jodrell Bank experimental station in Cheshire, and will be operated under the direction of A. C. B. Lovell, professor of radio astronomy at Manchester. The radio telescope will be 300 feet in height, the diameter of the

paraboloid aerial will be 250 feet, and the rotating platform will have a diameter of 310 feet. Its principal use will be to continue studying galactic and extragalactic radio emissions.

The **National Association of Radio Broadcasters** will administer a fund of \$80,000, made available by the Fund for Adult Education to provide grants-in-aid to educational institutions for instructive radio and television programs. All projects must be in the field of adult education and must be completed within 12 months from date of approval. Under the terms of the grants, not more than \$7000 will be allocated to a radio project, and not more than \$9000 to a television project. Institutions having recognized radio and television production centers may apply not later than *Sept. 15* to Seymour N. Siegel, NARB president, 119 Gregory Hall, University of Illinois, Urbana.

New head of the Department of Physiology at the **University of Oregon Medical School**, is John M. Brookhart, professor of physiology. He replaces William B. Youmans, who has accepted a similar position at the University of Wisconsin Medical School. William D. Blake, of Yale, has been appointed associate professor of physiology at Oregon.

The **University of Texas Medical Branch, Galveston**, has organized curricula in medical services under the direction of George Crosby. The courses will include clinical laboratory and radiation technology, physical and occupational therapy, medical record librarianship, case work, and illustration, clinical psychology, and hospital administration. E. S. McLarty has been appointed director of the General Practice Preceptorial Program, which is being made available to fourth-year medical students. Raphael Mendez, director of the Pharmacology Laboratories of the Cardiology Institute, Mexico City, has been appointed lecturer in the Department of Pharmacology and Toxicology, and Patrick Romanell, of Wells College, has been appointed professor of the philosophy and ethics of medicine and public health.

Grants and Fellowships

The **Arthritis and Rheumatism Foundation**, 23 W. 45th St., New York 36, is offering research fellowships on both pre- and postdoctoral levels, ranging from \$1500 to \$3000 and \$3000 to \$6000, respectively. Deadline for applications is *Nov. 1*; awards will be made by *Feb. 15*.

The **Committee on Growth** of the National Research Council, acting for the American Cancer Society, is accepting applications for grants in support of cancer research. Applications for new grants received before *Oct. 1* will be acted upon during the winter and will become effective *July 1*. Investigators now receiving support will be notified individually regarding applications for renewal. The research program includes, in addition to clinical investigations on cancer, fundamental studies in cellular physiology, morphogenesis, genetics, virology, biochemistry, metabolism,

nutrition, cytochemistry, physics, radiobiology, chemotherapy, endocrinology, and environmental cancer. Approximately 250 grants, totaling about \$1,700,000, were awarded last year, and a program of similar magnitude is contemplated for the coming year. Applications and additional information may be obtained from the committee's executive secretary, 2101 Constitution Ave., N.W., Washington 25, D. C.

Fulbright Awards for the academic year 1953-54 in Europe, the Near East, Japan, Pakistan, and the Union of South Africa have been announced by the Conference Board of Associated Research Councils, Committee on International Exchange of Persons, 2101 Constitution Ave., N.W., Washington 25, D. C. Applications must be postmarked no later than *Oct. 15*. A Fulbright Agreement was signed with Germany on July 18, and it is possible that awards will be offered for the coming year.

Applications for **Life Insurance Medical Research Fund** postdoctoral research fellowships will be received by the scientific director of the fund until *Oct. 31*. Preference will be given to those who wish to work on cardiovascular function and disease, and stipends vary from \$3300 to \$4500. Grants to institutions in aid of physiological, biochemical, and other basic research in cardiovascular problems, as well as for clinical investigations, will be available until *Nov. 15*. Address of the fund is 2 E. 103rd St., New York 29.

In the Laboratories

The new \$2,000,000 **Biochemistry and Virus Laboratory** of the University of California on the Berkeley campus will be opened with elaborate ceremonies *Oct. 9-11*. Conducted tours of the laboratory will be available *Oct. 9* and *11*; a symposium on biochemistry and viruses will be held *Oct. 10*, at which the speakers will include Wendell Griffiths, D. P. Link, V. du Vigneaud, Detlev W. Bronk, W. C. Rose, Louis O. Kunkel, T. M. Rivers, Malcolm Merrill, Herald Cox, and K. F. Meyer. At a dinner meeting *Oct. 10*, Dr. Bronk, Alan Waterman, and MacFarlane Burnet (Hall Institute, Australia) will speak. Opening of the Emil Fischer Library and celebration of the hundredth anniversary of Fischer's birth will occur *Oct. 9*, with Dr. du Vigneaud, H. O. L. Fischer, and W. M. Stanley participating. A Pacific Slope Regional Biochemical Conference is being planned by D. M. Greenberg for *Oct. 11*.

Los Alamos Scientific Laboratory has added the following physicists to its staff: John W. Bond, Jr., John B. Cladis, Walter R. Kane, Ronald K. Smith, and Thomas M. Putnam, Jr. Edward C. Rightley, mechanical engineer, Lawrence R. Sitney, chemist, and John W. McDonald, technical writer, have also joined the laboratory staff.

Pfizer Inter-American, S. A., a new subsidiary of Chas. Pfizer & Co., will process and distribute antibiotics and other pharmaceutical products in Brazil.

Headquarters will be in Rio de Janeiro, and the processing plant in São Paulo.

S. David Bailey has been appointed chief of the Pioneering Research Division of the **Quartermaster Research & Development Laboratories**. He replaces Ralph G. H. Siu, who will continue as associate technical director, Research and Development Division, Office of the Quartermaster General. William H. Stahl has been promoted to head of the Analytical Section, Chemistry Laboratory Branch, and Gail L. Miller, of the Institute for Cancer Research in Philadelphia, will become head of the Biochemistry Research Laboratory.

Meetings and Elections

The **American Fern Society** has scheduled a field trip to begin Sept. 2 in Vermont and end at Ithaca, N. Y., in time for the AIBS meetings. Ralph C. Benedict, Pilot Knob, N. Y., is general chairman, and Robert Clausen and Harold G. Rugg are in charge of various parts of the trip. Additional visitors who can provide their own transportation will be welcome.

The fall meeting of the **American Physiological Society** will be held on the campus of Tulane University and in the Louisiana State University School of Medicine, Sept. 4-6. For further information, address H. S. Mayerson, Department of Physiology, Tulane.

The morning session of the annual **Calorimetry Conference**, to be held at the National Bureau of Standards Sept. 20, will include discussions by D. H. Andrews, W. DeSorbo, H. L. Finke, J. A. Morrison, G. B. Guthrie, Jr., Donald D. Wagman, and T. B. Douglas. Afternoon discussions will be led by George S. Parks and Kenneth Manchester, W. N. Hubbard, D. J. Berets, E. F. Westrum, Jr., J. F. Masi, Guy Waddington, D. C. Ginnings, and W. DeSorbo. Tours of the NBS calorimetry laboratories have been arranged for Sept. 19. Information about the meeting, which is open to all interested persons, may be obtained from E. J. Prosen, of NBS.

At one of the sessions of AAAS Section H in Philadelphia last December it was agreed that some simple organization might be formed to bring together American scholars who are interested in the diverse aspects of the archaeology of the Old World. To explore the possibilities, a **Committee for Old World Archaeology**, appointed by five organizations, was formed, as follows: Jotham Johnson (Archaeological Institute of America); Bruce Howe (American School of Prehistoric Research); Richard K. Beardsley (Section H); Robert J. Braidwood (American School of Oriental Research); Lauriston Ward (American Anthropological Association), chairman. The first meeting was held in July, and a statement of proposed plans will later be mailed to interested persons. The committee will welcome suggestions,

which may be addressed to any member or to Lauriston Ward, Peabody Museum, Harvard University.

The program of the **Institute of Mathematical Statistics**, which will meet at Michigan State College Sept. 2-5, will include discussions of cloud seeding and evaluation of the results, cosponsored by the American Meteorological Society and the American Geophysical Union. The **Econometric Society** will cosponsor a program on Recent Developments in Measurement in the Social Sciences and Comparison of Experiments. In addition to invited papers, sessions will be held on Stochastic Phenomena in Medicine, Distribution of Quadratic Forms, and Recent Developments in Estimation and Hypothesis Testing in the Nonparametric Case.

The **Instrument Society of America** will hold its seventh national conference in Cleveland, Ohio, Sept. 8-12. More than 60 sessions will be held, under the auspices of ISA and other societies, including the American Society of Mechanical Engineers, Institute of Radio Engineers, American Institute of Electrical Engineers, and the American Institute of Physics. Among the subjects to be discussed are instrumentation for testing, and medical, aeronautical, geophysical, meteorological, and radiation instrumentation. Complete advance programs may be obtained from the society at 1319 Allegheny Ave., Pittsburgh 33, Pa.

The secretary general of the sixth **International Grassland Congress**, to be held at Pennsylvania State College Aug. 17-23, is Will M. Myers, chief of the Division of Agronomy and Plant Genetics, University of Minnesota. Until July 1 Dr. Myers was director of Field Crops Research, Bureau of Plant Industry, Soils, and Agricultural Engineering, USDA, and for the past year and a half he has been serving as deputy to P. V. Cardon, USDA, who has been coordinating preparations for the congress. Deputy secretaries general will be Herbert R. Albrecht, William R. Chapline, and Clarke L. Willard.

A conference and exhibition, sponsored by the **Royal Swedish Academy of Engineering Sciences** and the **Association of Technical Physicists**, on instruments and measures, will be held in Stockholm Sept. 22-25 and Sept. 23-30, respectively. Participation is not yet known, but only those U. S. firms with local representatives are expected to exhibit. German instrument firms will be well represented, but there is a simultaneous exhibition in Germany, which will somewhat reduce their effort. The secretary of the conference is Yngve Axner, Kungl. Tekniska Högskolen, Stockholm 70, and the exhibition is being organized by St. Erika Mässan, A. B., Lidingövägen, Stockholm 26, under the supervision of B. R. Hult.

A **Symposium on Phosphorus in Crop Production** will be held at the University of Illinois Aug. 26-28. Sponsors are the university, the National Soil Fertilizer Committee, the American Society of Agronomy, and the Soil Science Society of America.