CONFERENCE STUDIES
BAT RABIES CONTROL

The Bat Rabies Conference, held at NIH July 10 and 11, brought together investigators from various disciplines to define and assess problems and to determine the needs for future work.

The conference, first of its kind, was sponsored by DRG's Tropical Medicine and Parasitology Study Section, and Virology and Rickettsiology Study Section.

The conference covered the ecology, mammalogy, and physiology of bats; the virology and the enzootiology of bat rabies; and the problem of control and management of the disease.

Panel members agreed that there is a serious lack of knowledge concerning the reproduction of bats; the seasonal, ecological, and geographical distribution of bats outside the U.S.; and the transmission of rabies between bats and from them to other mammals. There is little knowledge of the mechanism of immunity either in terms of antibody titer or at the cellular level.

The conference recommended more study on variations in host resistance and in the virulence and the methods of transmission of rabies.

Conference members agreed that control of bat rabies could best be accomplished through public education, immunization for persons occupationally or otherwise exposed, and improved post-exposure treatment for infected persons.

Participants of the Conference included representatives of PHS, Army, Navy, Department of the Interior, State Health Departments, pharmaceutical houses, universities, the Pan American Sanitary Bureau, Rockefeller Foundation, the Ministries of Health and Agriculture of Trinidad, and the Institute of Biology, of Mexico.

SURGICAL WING CONSTRUCTION STARTED

DRS NAMES EXPERT ON COMPUTER SERVICES

Dr. Norman Z. Shapiro, a mathematician with wide experience in the use of electronic computer systems, was recently appointed to a key position in the Biometrics Branch, DRS, with major responsibility for data processing and computation.

Dr. Shapiro is currently familiarizing himself with the NIH computational and data processing activities. Persons who have current or envisioned needs in these areas are welcome to discuss them with him. Dr. Shapiro is located in Bg. 12, Rm. G-727, ext. 2282. He hopes to focus his concern on the application of computer techniques to medical and biological research.

(See Computer Services, Page 2)

DR. SMADEL HEADS CHOLERA PROJECT

A team of six U.S. scientists, headed by Dr. Joseph E. Smadel, Associate Director of NIH, left August 1 for the Far East and South Asia to aid in developing a cholera research project in nations of the Southeast Asia Treaty Organization (SEATO).

The group will visit three SEATO nations—Thailand, Pakistan, and the Philippines—and other countries where cholera and diarrheal diseases are public health problems, such as India and Iran.

The U.S. has allocated $400,000 for the cholera project from the President's Fund for Asian Economic Development, a part of the

(See Cholera Project, Page 2)
SINGING IN THE RAIN

Summer employees and COSTEP personnel moved their festivities into Top Cottage one evening last month when rain threatened the picnic held in their honor. More than 90 people attended this third annual R&W-sponsored picnic. Pictured singing after (not for) their supper are, from left, Duffy McBrayer, Edward Titus, Peter Messitte, and Diane Canby.

TRANSFER, APPOINTMENT ANNOUNCED BY DRG

Within the past month DRG designated a new executive secretary for the Radiation Study Section and received, by transfer, the Psychopharmacology Review Committee.

Dr. Samuel S. Herman, a dental officer in the U.S. Army Medical Corps, has been appointed Executive Secretary to the Radiation Study Section. Prior to his assignment here, Dr. Herman headed the Division of Medical Services and Facilities in the Office of Vocational Rehabilitation.

Dr. Herman replaces Dr. Clinton C. Powell, who has been appointed Assistant Branch Chief of the Clinical Research Group, one of the four major sections into which the DRG study sections are organized.

The Psychopharmacology Review Committee, headed by Dr. Irving Simos, was transferred to DRG from NIH, where the group participated in the program of the Psychopharmacology Service Center.

Under DRG, the review committee will function as a part of the Biochemical and Physical Sciences Research Group, headed by Dr. Elsa O. Kelles. It will review all research grants applications relating to psychopharmacologic drugs and compounds.

CHOLERA PROJECT Contd.

Mutual Security appropriations. The project is designed to bring American research scientists into working cooperation with their Asian counterparts. This sum has been assigned to NIH, which will in turn make further grants and contracts to carry out various phases of the project.

A research laboratory is to be organized at an established institution in Southeast Asia, and is to be closely linked with research laboratories and institutions of other countries. Activities will include epidemiological studies, and studies of the type, distribution, and prevalence of other diarrheal diseases. This field laboratory will have a director and assistant director selected by NIH.

Asian citizens will be trained in investigative techniques in the field laboratory and in three laboratories in the U.S., where basic research studies will be conducted. These are laboratories of the University of Chicago, whose project focuses on responses to vaccine and to the disease in immunized and nonimmunized persons; Jefferson Medical College, which is to make a fundamental investigation on the cholera organism, its growth forms and other characteristics; and the University of Pittsburgh, which will study viral agents that may be associated with, or involved in, susceptibility or resistance to cholera.

Accompanying Dr. Smadel on the one-month trip are the following: Dr. John H. Dingle, Western Reserve Univ.; Dr. Kenneth Goodner, Jefferson Medical College; Dr. Colin M. MacLeod, Univ. of Pennsylvania; Col. Richard P. Mason, Walter Reed Army Institute of Research; and Dr. Theodore E. Woodward, Univ. of Maryland School of Medicine.

COMPUTER SERVICES Contd.

Dr. Shapiro came to NIH from the Rand Corporation, Santa Monica, California, where he supervised the development of programs involving electronic computers. During 1968 he was detailed to the Strategic Air Command, Omaha, to prepare computer programs concerning the optimal use of weapons systems.

Publication Preview

The following manuscripts were received by the SRB Editorial Section between April 1 and April 7.

DRS

Hickey, J. L. S. A comparison of current types of germfree research apparatus.

NCI

Blum, H. F. On the mechanism of cancer induction by ultraviolet radiation. IV. The size of the replicated unit.

Harris, A. H. Operative wound seeding with tumor cells: Its role in recurrences of head and neck cancer.

Langenbaugh, G. N.; Malmgren, R. A.; and Potter, J. F. A report on the circulating tumor cell study at Baltimore PHS Hospital with case reports.

Narrod, S. A.; Langon, T. A.; Jr.; Kaplan, N. O.; and Goldin, A. Effect of asparaginase (diazadecice-l-serine) on the pyridine nucleotide levels of mouse liver.

Potter, M. Biologic studies on the development of DON resistance in a mast cell neoplasms of the mouse.

NIH

Davis, J. O.; Bahn, R. C.; and Ball, W., C. Jr. Subacute and chronic effects of hypothalamic lesions on aldosterone and sodium excretion in dogs with chronic experimental ascites.

Davis, J. O.; Bahn, R. C.; Yankopolous, N. A.; Kliman, B.; and Peterson, R. E. Acute effects of hypophysectomy and subsequent diencaphalic lesions on aldosterone secretion in dogs with chronic experimental ascites.


Strehler, B. L. Some optical properties of luminous bacteria.

Strehler, B. L., and Gee, M. V. Spectrophotometry of highly scattering biological materials: A simple device permitting automatic recording of organs, tissues, particulates and cells.

NIAID

Abinanti, F. R., and Huebner, R. J. The serologic relationships of strains of para-influenza 3 virus isolated from humans and cattle with respiratory disease.

Rowe, W. P., and Brodsky, I. A graded response assay for the Friend mouse leukemia virus.

NIAMD


Correll, W. R.; Callahan, M. J.; and Soroff, H. A. Physical and chemical properties of protamine from the sperm of salmon (Oncorhynchus tshawytscha). II. Aminic binding characteristics.

Miles, H. T., Jr. Infrared spectra and tautomeric structure of polyninosinic and polycytidylic acids.

Mortimore, G. E.; and Tierse, F. Studies on the fate of insulin-131I in the perfused rat liver.

NIAID


von Oettingen, W. F. The elaphagic acids and their esters, toxicity, and potential dangers. The saturated monobasic aliphatic acids and their esters.
NIH Spotlight

Windsor S. Day

Cabinet-maker Windsor S. Day is one man who doesn't worry about what he'll do when he retires next spring after 15 years in Government service. He's already doing it - raising a flock of 65 sheep, looking after more than a dozen head of cattle and horses, and tending a good-sized vegetable plot, among other chores on his 116-acre Maryland farm.

NINDB

Brad6, R. O. Enzymatic aspects of neurological and mental disease.
Chang, J. J. Electrophysiological studies of the dinitroflagellate Noctiluca miliaris.
Gemard, B. E.; Iwami, M; and Livingston, R. B. Vestibular influences on spinal mechanisms.
Irwin, R. L.; Wells, J. B.; and Smith, H. J. III. The effect of the selective inhibition of muscle and plasma cholinesterase on neuromuscular block.
Miquel, J.; Horvath, B.; and Kersz, J. A. Chromatographic technique for the quantitative study of the precipitin reaction.
Paton, D.; and Thomas, L. B. Simultaneous occurrence of primary malignant melanomas of the eye and the skin.

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USDA Grad School Offers Science, Math Courses

Among the 23 courses being offered at NIH by the Department of Agriculture Graduate School for the fall semester are subjects ranging through the biological and physical sciences to mathematics and statistics.

Nine courses have been scheduled in the biological sciences. They include: introductory and general bacteriology, general virology, human physiology, biochemical genetics, general pathology, and history of medicine and medical research.

The 12 physical science courses include: organic chemistry, introductory biochemistry, enzyme chemistry, physical chemistry, chemical quantum mechanics, chromatography, and protein chemistry.

Two courses will be given in mathematics and statistics: introduction to calculus and introduction to determinants and matrices.

Registration will be held during the week of September 12-19 at the Agriculture Administration Building, 14th Street and Independence Avenue, S.W. A special registration will be held at the Clinical Center, NIH, September 21-26.

Classes will begin at NIH on Monday, September 28.

Carpenter-farmer Windsor Day was born in Ridgeville, Md., in 1887, the same year the Hygienic Laboratory, ancestor of today's NIH, was opened for business. Except for two years when he worked in Ohio, Mr. Day and his wife have spent their lives in Maryland.

The Days live in a 200-year-old house whose two-foot-thick walls were built from facing stone cut in a colonial stone-sawing mill. Their house overlooks two watering ponds stocked with bass and bluegill. Since he bought the farm 41 years ago, Mr. Day has had many offers to sell the property, but he always turns them down.

"My wife and I like being in the country," he explains. "We can live much more cheaply on the farm than in the city. We grow our own food and in bad times the farm could support us.

Windor Day has one retirement project scheduled that he considers long overdue. He plans to repair and strengthen the fencing on his farm. "It's tight enough to hold my other stock," he says, "but as it is, I can't run hogs . . ."
NEW PROJECTS STUDY STRESS AND SUICIDE

One study involving college-bound students and another dealing with potential suicides have been launched recently, one conducted by NIMH, and the other supported by grant funds from that institute.

Twenty Montgomery County high school graduates have been selected from among 100 volunteers for the study of pre-college and college stress situations. Under the direction of Drs. David A. Hamburg and Earle Silber, of Clinical Investigations, NIMH, students will be observed in an attempt to determine why the same difficult experiences are damaging to some individuals and strengthening to others.

The research includes psychological tests and exploration of the students’ special achievements, work habits, study techniques, dating habits, and the attitudes of students’ parents toward them and their problems. In addition, the relation of endocrine function to psychological stress will be studied by measurement of hormones in the blood and urine during naturally occurring periods of stress.

In Los Angeles, a suicide referral service, supported by Mental Health Project Grant funds, has been established to study causes of suicide and treatment for suicidal patients. Information will be obtained from these patients, and they will be referred for treatment to various resources in the community. Treatment data will be correlated, and the effectiveness of treatment methods studied.

This five-year project has grown out of a number of previous studies and has the full support of municipal, medical, and social agencies in the community.

New Tennis Courts Being Constructed

Six new tennis courts, financed by the NIH Recreation and Welfare Association, will be built at the southwest corner of the reservation in the former Glenbrook golf course area. The present courts are being demolished to provide space for the National Library of Medicine.

The new courts, which will be clay with greenstone top dressing, are expected to be completed by next spring. They will be available for use by Clinical Center patients and by members of the R&W Tennis Club.

NIH Softball Team Beats Vitro for Championship

NIH softballers held on to their sixth straight Montgomery County championship August 3d by defeating the Vitro Engineering Co. team, 6-2, in an extra-inning game.

George Duval led the way for NIH with a homer in the sixth inning and a crucial put-out in the third at home plate.

The Engineers scored in the 2d and 3d innings and were ahead 2 to 1 when Duval homered to tie up the game. In the extra inning, NIH rallied with four more runs to win.

The NIH team will go into the Class "A" Tournament for the District championship.

NEWS BRIEFS

Dr. Evelyn Anderson of the Laboratory of Nutrition and Endocrinology, NIAAMD, goes to Buenos Aires this month to give a paper on "Factors Influencing the Secretion of Insulin" at the International Physiological Congress. She will also act as chairman of a Session on Metabolism of Nervous Tissue.

Dr. Harold L. Raush of the Child Research Branch, NIMH, leaves August 21 for a year's work at the University of Oslo. Recipient of a Fulbright program advanced research fellowship and a Social Science Research Council grant, Dr. Raush will study the social behavior of children as related to NIMH research findings.

Exhibit to Feature Historic Equipment

Laboratory equipment and material used by Dr. Joseph Goldberger in the early days of the PHS Hygienic Laboratory--forerunner of NIH--will be displayed in a "Pioneers in Medicine" exhibit this fall by the B'nai B'rith Henry Monsky Foundation of Washington.

Dr. Goldberger, one of the country's outstanding medical scientists, discovered the dietary cause of pellagra in 1915. His equipment, much of it still in the possession of NIAAMD's Laboratory of Nutrition and Endocrinology, was loaned to the foundation. The exhibit will be displayed at the B'nai B'rith building, Washington, for one year.