DR. HALL RECEIVES ROCKEFELLER AWARD

Dr. Samuel R. Hall, Executive Secretary of the Endocrinology Study Section, DRG, is one of 13 career Federal employees selected from several hundred applicants and nominees as a recipient of a Rockefeller Public Service award. Established under a grant of $450,000 from John D. Rockefeller III, the awards are administered by Princeton University.

Twelve men and one woman were chosen on the basis of intellectual maturity, leadership, character and competence, interest in public service as a career, and particular promise of future usefulness to the Government. The individual awards range from $8,000 to $16,500, and total $165,000, and are designed to enable the recipient to spend from six to twelve months on a study program of his choice.

Dr. Hall plans to use his award to establish, in cooperation with the National Research Council, standards for several categories of

HAMSTERS TO PRESENT 5th "LIFE AT NIH" SHOW

On May 19, 20, and 21, the Hamsters will present their annual lampoon show, "Life at NIH," this year entitled "$$ and No Sense." Curtain time is set for 8:30 p.m. in the CC Auditorium. Tickets, at $1.10 each, are available from all R & W Division Representatives or at the CC Lobby Desk.

More than 30 NIH employees will appear in the production, which is under the direction of Dr. Agamemnon Despopoulos of NHI. The show will consist of seven original skits prepared by a script committee headed by Dr. Arnold Pratt, NCI, and Dr. Richard Williams, NIMH.

This is the fifth in the series of "Life at NIH" productions, starting with the original show in 1949. In 1951 the Hamsters presented "Carmen Cold," in 1952 "Twice Upon a Time," and in 1954 "Off the Record".

NEW PARKING LOTS FOR 270 CARS OPEN

Construction has been completed on five new parking lots near the Clinical Center, providing an additional 270 spaces for employee and apartment building tenant use.

Available to employees are 215 spaces in four lots. Between the west end of the CC and the convent property, 91 spaces are open, and at the south end of the west parking lot there are 66 spaces. Expansion of the lot immediately in front and to the west of the main entrance to the CC has provided an area for 18 more cars. A 40-car lot across Center Drive and west of the apartment building is available to employees. A 55-car lot in the rear of the apartment building services tenants and their visitors.

Work is progressing on the 98-car lot, for NIH visitors, night duty staff, and errand stops, between the...
Since 1943, lysergic acid diethylamide (LSD 25) has been known to produce an altered state of consciousness similar to that of schizophrenia in normal humans. Information about the reactions of this drug on chronic schizophrenics has, however, been contradictory. In an effort to help resolve this problem, a group of investigators from the NIMH Clinical Investigations Branch, began, in February 1954, a study of the effects of LSD administration on patients at Spring Grove State Hospital in Catonsville, Md.

The investigators, which include Drs. Louis Choloden and Charles Savage of NIMH, and Dr. Albert Kurland, Director of Research, the State Hospital, chose a group of patients with the diagnosis of chronic regressed schizophrenia, who had been in the State Hospital for 15 years. These patients were transferred to a new ward and were observed and observed for three weeks prior to the injections. This was followed by another three-week period in which the patients received only placebo saline injections. After this time, 100 micrograms of LSD were administered intramuscularly. Throughout the study, a simple behavior rating scale was filled out by the aide in charge of each patient for every shift, and the patients were under close observation by the NIMH investigators and State Hospital psychiatrists.

The patients all reacted in different ways to the LSD administration. From results with these Spring Grove patients and others studied in the Clinical Center, the investigators have been able to distinguish three separate types of clinical response to LSD. Some patients showed a covert, or delayed, reaction to the drug; others showed an intensification of their usual symptomatology or a regression to earlier forms of behavior; and still a third group demonstrated a striking reversal of their usual behavior. In several patients this latter response was followed by the intensification reaction.

All patients showed the most marked changes in behavior on the first day of LSD administration. The response seemed to diminish on the second day, and on subsequent administrations there were no noticeable behavior changes.

This rapidly developing tolerance to the drug then became the subject of new studies. After experimentally varying the time interval between drug administrations, the investigators found that a reaction similar to the strong first reaction to LSD would be shown if approximately five days were allowed to elapse between injections. In another attempt to break through the tolerance, the dosages were increased daily from 100 micrograms on the first day to 500 micrograms on the fifth day. Patients on this regimen showed essentially the same tolerance as was developed by patients receiving 100-microgram doses daily.

The investigators also tested the cross-tolerance between the various LSD derivatives. They found that tolerance to LSD was accompanied by failure to respond to either LAE (lysergic acid monoethylamide) or brom-lysergic acid. Alternative doses of LSD and mescaline hydrobromide, however, revealed that there is no cross-tolerance between these two drugs, indicating that the tolerance phenomenon is physiological rather than psychological in origin.

Currently the investigators are conducting similar studies on a group of patients transferred to the Clinical Center from St. Elizabeths Hospital. Future studies will be directed toward assessing the possible therapeutic uses of the changes produced by LSD and mescaline.

**N. I. H. RECORD**

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**Publication Preview**

The following manuscripts were received by the SRB Editorial Section between April 6 and April 30:


Adams, Elijah. L-histidinal, a biosynthetic precursor of histidine.


Aigle, Glenn H., et al. Vascular patterns in tissues and grafts within transparent chambers in mice.

Arnold, John, et al. The anti-malarial activity of primaquine against the blood and tissue stages of Plasmodium berghei (PbRh strain).


Bayley, Nancy. On the growth of intelligence.

Bell, J. Frederick, et al. Chiropedal forelimbs in Montana.

Birren, James E. The significance of age changes in speed of perception and psychomotor skills.

Birren, James E. Current research on aging.

Brady, Rosac. Fluorocadex coammonx A. Burgess, Robert W. Effect of topical application of DDT on development of Plasmodium vivax and P. falciparum in Anopheles quadrinaculatus Say.

Camannmeyer, Jan. Changes in volume of cat spinal cord induced by formalin fixatives.

Camannemeyer, Jan. Volumetric characteristics of spinal cord regions in man, cat, rabbit, and opossum.


Chausen, John A. The sociology of mental health.

Davis, Gordon E. Relapsing fever spirochetes: the present status of Borrelia viaevaria (Bunol) and Borrelia neotropicalis (Bunol and St. John).

Davis, James O., et al. Sodium excretion in adrenalectomized dogs with chronic cardiac failure produced by pulmonary artery constriction.


Dunn, John E., Jr. Research in chronic disease.

Eagle, Harry. The utilization of dipetides by mammalian cells in tissue culture.


Fish, Thris. M. Social work in a unique setting.

Grant, Robert P. The mechanism of A-V arrhythmias.

Greenberg, Joseph. Differences in the course of Plasmodium berghei infections in some hybrid and backcross mice.


Groebstein, Clifford. Inductive interaction in the development of the mouse metanephros.

Hersen, William. Further epidemiological tests of theories on lung cancer etiology.

Hibish, T. F. Contrast radiography.

Hogeboom, George H., et al. Relation between cell structure and cell chemistry.

Horecker, B. L. The enzymatic synthesis of ribulose 1,5-diphosphate.


Komp, William H. W. The oviposition of Haemagogus equinus in nature. (Diptera, Culicidae).


Marks, P. A., et al. Distribution of radioactivity carbon dioxide incorporated into rat liver glycogen.

McClure, C. Dean. Tissue lesion patients and their need for follow-up. Three case reports from the Pittsburgh and Allegheny County mass chest X-ray survey of 1953.


Strock, N. W. The Section on Gerontology.

Shore, Parkhurst A., et al. Interaction of reserpine, 5-hydroxytryptamine (Serotonin) and lysergic acid diethylamide (LSD) in the central nervous system.

Siperstein, M. D., et al. The conversion of cholesterol to bile acids.

Sjoerdsma, Albert, et al. The metabolism of 5-hydroxytryptamine (Serotonin) and lysergic acid diethylamide (LSD) in the central nervous system.

Soper, Albert, et al. The metabolism of 5-hydroxytryptamine (Serotonin) by monoamine oxidase.

Skalaut, Milton W., et al. How do you measure needle length?


Steinberg, Daniel, et al. Serum transaminase as a measure of myocardial necrosis.


Streicher, Eugene. Physiological and anatomical changes in the central nervous system with age.

Stryker, E. Note on the entry of P 17 into rat brain.


Wittkop, Bernhard, et al. The synthesis of 2-carboxyoxysterolines via 3-methyl-4tryptophan.

Workman, William G. Standardization of poliomyelitis vaccine.

Zissis, Stell, et al. 1,5-anhydro-D-glucitol.

**Two Springtime Views of NIH**

Taken at Stone House and in the employee gardens, these two pictures afford unusual perspectives on springtime at NIH.

**CO's DON'T ALWAYS GET $12 PER DIEM**

It's $12.00 a day, all right, but not for every day.

A commissioned officer who multiplies $12.00 times the number of days he's in travel status may discover that his travel voucher can bounce. True, the per diem rate was upped to $12.00 via recent legislation--technically known as the Career Incentive Act of 1955, effective April 1. But this new rate applies only when the officer arrives at a temporary duty station and finds it necessary to seek lodging. The day he returns to his station, however, he is allowed $9.00.

CO's are advised to study carefully the Joint Travel Regulations, and refer any questions to their administrative offices, or to Mrs. Amy Nifong, ext. 2261.

**DR. HALL Cont'd**

Biochemical materials. He also hopes to find better sources for certain biochemicals now in short supply.

Since the awards program began two years ago, four NIH employees have been honored. Last year Dr. Christian B. Anfinsen, NHI, and Mr. Charles V. Kidd, OD, were recipients; and in 1953 an award went to Dr. Martin D. Young, now stationed at NMI's Laboratory of Tropical Diseases, Columbia, S. C.

**Holiday May 30**

NIH will be closed for business Monday, May 30, in observance of Memorial Day.

**DON'T THROW AWAY YOUR OLD JEWELRY**

Broken costume jewelry is needed for the CC school program's clay modeling classes. The children can use necklaces, bracelets, pins, earrings, and cuff links to make dolls, animals, and gardens. Donations should be sent to Mrs. Littleton, Rm. 25-257, Bldg. 10.

**NMI SCIENTISTS SPEAK HERE ON POLIOMYELITIS**

NIH employees, their families, and friends heard a discussion on "Poliomyelitis" by three NMI speakers on April 26 in the CC Auditorium. Dr. Karl Habel, Chief of the Section on Basic Studies, Laboratory of Infectious Diseases, moderated the panel and described the basic research done on polio. He also explained the recent work on the polio vaccine, and presented the information prepared by Dr. William G. Workman, Chief of the Laboratory of Biologies Control, who was unable to attend.

Dr. R. S. Paffenbarger, Jr., LID, discussed the epidemiological aspects, and Dr. John F. Utz, Laboratory of Clinical Investigations, spoke on the clinical aspects.

**PARKING Cont'd**

Apartment building and West Drive, and the "pull-off" stopping lane for loading and discharging passengers at West Drive.

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**KEMP, WILLIAM H. W.**

The oviposition of Haemagogus equinus in nature. (Diptera, Culicidae).

**LEONE, NICHOLAS C.**

A roentgenologic study of a human population exposed to high-fluoride domestic water. A ten year study.

**LEONE, N. C.**


**LIDDLE, GRANT W.**

The physical basis for a method of assaying aldosterone in extracts of human urine.

**LONGLEY, J. B.**

Problems in quantitating renal enzymes.

**MARKS, P. A.**

Distribution of radioactivity carbon dioxide incorporated into rat liver glycogen.

**MCCLOUER, C. DEAN.**

Tissue lesion patients and their need for follow-up. Three case reports from the Pittsburgh and Allegheny County mass chest X-ray survey of 1953.

**NIROMA, CHOZO.**

Enzymatic deamination of aminosugars in the human body. Studies relating to the Hufnagel operation with special reference to post-operative anemia.

**SIPERSTEIN, M. D.**

The conversion of cholesterol to bile acids.

**SJOERDSMA, ALBERT.**

The metabolism of 5-hydroxytryptamine (Serotonin) and lysergic acid diethylamide (LSD) in the central nervous system.

**SOPER, ALBERT.**

The metabolism of 5-hydroxytryptamine (Serotonin) by monoamine oxidase.

**SKALAUT, MILTON W.**

How do you measure needle length?

**SMITH, WILLIAM W.**

X-radiation in humans and effects of streptomycin and morphine on the human body.

**STEINBERG, DANIEL.**

Serum transaminase as a measure of myocardial necrosis.

**STREICHER, EUGENE.**

Physiological and anatomical changes in the central nervous system with age.

**STREICHER, E.**

Note on the entry of P 17 into rat brain.

**SYMEOINTIDAS, A. F.**

Effect of prolonged pretreatment with desoxycorticosterone on the liver and adrenal glands of hepatocoritreated rats.

**TWEED, BANTAM B.**

Alpha-keto acids in tissue culture. 1. The concentration of pyruvic and alpha-keto glutaric acids in the ultrafiltrates from horse serum and chick embryo extract.

**WINDLE, W. F.**

Residual function after subtotal spinal cord transection in adult cats.

**WITTkop, Bernhard.**

The synthesis of 2-carboxyoxysterolines via 3-methyl-4-tryptophan.

**WORKMAN, WILLIAM G.**

Standardization of poliomyelitis vaccine.

**ZISSIS, STELL.**

1,5-anhydro-D-glucitol.
Four Secretaries Leave for WHO Duty in Mexico

Four NIH secretaries left last week for Mexico City, where they will perform secretarial work for the World Health Organization during its annual meeting. They are Audrey Hess, OD; Mary Lou McVicker, NIMH; Kathryn Mains, NMI; and Dorothy Mathews, NCI.

Selection was made from 48 secretaries nominated by the Institutes. The 10 girls attaining the best scores on a qualifying shorthand test were then considered, with those having at least three years' service at NIH given preference. Five final selections were made, including an alternate, Mrs. Florence Hooker, NIAMD.

The secretaries, who are being paid by WHO, will be on annual leave or leave without pay. Their expected stay is six weeks.

R & W NOTES

Bob Michelitch, Golf Chairman, reports that Glenbrook will again offer a discount to R & W members. After 4 p.m., R & W golfers may obtain a 50¢ discount on use of the course. With the discount, the rate on weekdays will be 50¢, and on weekends $1.00. Golf lessons will also be available in the near future. Al Price, the assistant pro at Glenbrook, will offer ten lessons for $10.00. Lessons can be given on every week night except Monday. For more information, contact Bob on ext. 2188.

More than 300 people were in attendance at the highly successful Spring Concert presented by the NIH Chorus on May 5. Under the direction of Mr. John Bullough, the 25-voice chorus presented eight selections, and guest tenor Ernest Sult sang several solos.

Another successful R & W event was the Spring Dance, held in Wilson Hall on April 29. Highlight of the evening was the floor show, which featured NIH songstress Sherry Reel, and a ballroom dance exhibition by Martin and Mary Chudy, NIH's popular dance instructors.

Don't forget to see your Division Representative soon to make your reservations for the Labor Day week Bermuda Cruise, sponsored by R & W and the HEW Employees Association.

NIH Spotlight

His persevering, methodical, and skillful approach to scientific problems has earned for NCI's William W. Tullner the respect and admiration of those who work with him. A biologist in the Endocrinology Branch, headed by Dr. Roy Hertz, Bill supervises the Bioassay Unit. He conducts research on the relation between hormones and cancer, and studies the effects of various steroid compounds on tumor growth in animals.

Since joining NIH in 1946, Bill has worked with Dr. Hertz and has collaborated with him on a number of papers. Among Bill's numerous contributions is his organization of the bioassay procedures for clinical endocrine diagnostic work. Recognition of his outstanding job performance came via a Superior Accomplishment Award presented in August 1953.

Bill came to NIH after a four-year hitch in the Navy. He spent three years in the Pacific as communications officer on the destroyer U.S.S. Ballard, participating in most of the major campaigns of World War II, including Wake Island, Okinawa, Guam, and Tarawa. In an area where casualties ran high, Bill's crew escaped with an extraordinary record of many "close shaves" and no losses. "We were lucky, I guess," he reflects.

His enlistment in the Navy interrupted a three-year career as a high school biology teacher in Pleasanthville, N. J. In addition to classroom and laboratory work, he conducted weekly field trips for the study of plants and animals.

NOMINATIONS DUE FRIDAY FOR CSC INTERN PROGRAM

Nominations for the Seventh Junior Management Intern Program must be submitted to the Personnel Branch by May 20.

Sponsored by the U. S. Civil Service Commission, the program aids in the development of employees who display management potential. Employees in Grade GS-7 or below (or equivalent) with at least two years' experience in the Federal Government are eligible. As a general rule, employees under 35 will be considered. Candidates must pass a qualifying written examination and meet DHHS's requirements for appointment to the program. Further information may be obtained from administrative offices.

COASTING CARS CAN CAUSE CATASTROPHE

Recently two cars drifted from their parked positions on the reservation. One landed in the creek, and the other rolled into a building area. When parking on grades, set the handbrake securely, put the car in gear, and turn the front wheels toward the curb. Where there is no curb, turn the wheels to a position that would permit the least amount of rolling.

Outdoor life has always held a special fascination for Bill. As a child, he learned from his father, an ardent sportsman, how to fish and hunt, and to identify plants and animals. The coastal location of his native town of Sea Isle City, N. J., was ideal for these activities.

Reliance on his natural science knowledge satisfied a yearning to see part of Central America. During his undergraduate days at Temple University, Philadelphia, he spent several summers in the Republic of Honduras, British Honduras, Mexico, and Guatemala. To finance these trips he collected small birds, iguanas, insects, snakes, and various plant specimens for universities and museums.

Bill is working on a Ph.D. degree in Physiology at George Washington University, where he received his M.S. A full schedule temporarily suspends his hobbies of hunting, fishing, and collecting plants and Indian relics. He lives in Silver Spring with his wife, Mariel, and four children, Billy 6, Johnny 6, Bobby 5, and Jeannie 18 months.