

N.I.H.



record

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NEW APPOINTMENTS MADE IN NIAID

Dr. Dorland J. Davis was recently appointed to the newly established post of Associate Director of NIAID and Dr. Robert J. Huebner has been named Chief, Laboratory of Infectious Diseases, the post formerly occupied by Dr. Davis.

Dr. Davis will be responsible for the planning, organization and direction of the Institute's research program here and at the Rocky Mountain Laboratory, Hamilton, Montana.

His principal contributions have been in the fields of influenza, hepatitis, bacterial eye disease, and psittacosis. Last year he received the Edward Rhodes Stitt award of the Association of Military Surgeons.

Dr. Huebner is well known for his work on APC viruses and for his contributions to studies of the Coxsackie viruses, Q fever, and rickettsialpox. His honors include the Bailey K. Ashford award of the American Society of Tropical Medicine and Hygiene, and the biological sciences

(See *Appointments*, Page 4)

6th ANNUAL EQUIPMENT EXHIBIT OPENS MAY 14

The Sixth Annual Research Equipment Exhibit and Instrument Symposium will open May 14. The symposium will be held in the Clinical Center and the exhibit in Building 22. Exhibit hours are as follows: May 14, 11:00 a.m. to 9:00 p.m.; May 15, 11:00 a.m. to 5:00 p.m.; May 16, 11:00 a.m. to 9:00 p.m.; and May 17, from 11:00 a.m. to 5:00 p.m.

The symposium will be held May 14 from 8:00 p.m. to 10:00 p.m.; May 15, from 2:00 to 4:00 p.m.; May 15, from 8:00 to 10:00 p.m.; May 16, from 2:00 to 4:00 p.m., and from 8:00 p.m. to 10:00 p.m. For further information, contact J. B. Davis, Chief, SMB, ext. 2315.

SPRINGTIME VIEW OF STONE HOUSE



3 EMPLOYEES RECEIVE DEPARTMENTAL AWARDS

HEW Secretary Marion B. Folsom presented Superior Service Awards to three NIH employees at the fifth Annual Honor Awards Ceremony, held April 12 in the Department Auditorium. The NIH award winners were Dr. Harold P. Morris, NCI; Dr. Milton Winitz, NCI, and Mr. John E. Fletcher, OD. Altogether 60 awards were made at the ceremonies.

Dr. Morris, biochemist in the NCI Laboratory of Biochemistry, was honored for "a superior series of scientific investigations of the mechanism of cancer causation."

Dr. Winitz, chemist, also of the NCI Laboratory of Biochemistry, received his award for "superior accomplishment in biochemical research, laboratory organization, and in the exacting and skillful training of subprofessional personnel."

Mr. Fletcher, Chief of the OD Office of Medical Research Information, OD, was cited for "superior

BLOOD DONOR PANEL TO BE SET UP BY DBS

To meet the need for a wide variety of red cell types, used as laboratory reagents in the testing of certain blood serums, the Division of Biologics Standards has formulated a plan for obtaining blood samples from NIH employees. At present, the DBS Section on Blood and Blood Derivatives does not have a regularly available source of red cells to test Blood Grouping and Anti-Rh Typing Serums submitted by licensed manufacturers.

Under the proposed plan, all employees will be invited to give a small blood sample in the Employee Health Unit. Each volunteer will receive a pocket card giving comprehensive

(See *Donor Panel*, Page 4)

service in interpreting the role of medical research to the American people and achieving thereby its deeper understanding and acceptance."

Studies in the Biochemistry of Inflammation

No. 161 in a Series



Palate tissue used for studying inflammation.

Although fluoridation has brought about a reduction in the amount of dental caries, the other great ravager of teeth, periodontal disease (pyorrhea), is yet to be dealt with. Two years ago a study was initiated in NIDR to define the biochemistry of inflammation, often considered the source of gingivitis, pyorrhea, and other periodontal diseases. Up to this time, only clinical and histopathological definitions had been given.

A research team has been conducting a series of studies in an attempt to establish an accurate chemical definition based on quantitative analysis of the different components of artificially inflamed tissues. Members of this team are Dr. Bernard K. Forscher, Dr. Harold R. Stanley, Jr., Dr. Stuart A. Narrod, Mrs. Helene C. Cecil, and Edward C. Dehala.

The palate tissue of white rats was chosen for the studies because there is more nearly the same amount of tissue in each animal, it is easily accessible, and is considered similar to gingival (gum) tissue.

Natural irritant conditions are simulated by administering an electrical impulse by electrodes, using extreme care not to break the epithelium. The impulse is given to as many as 120 anesthetized animals with other untreated animals serving as controls. A modified electro-surgery apparatus is controlled by an automatic timer to ensure the

same amount of electrical impulse in each animal.

The animals are sacrificed at various time intervals, and histopathological studies, chemical analyses, and enzyme assays are carried out. Working with 10 or 12 components, runs are usually made on only one or two of the components in each series of tests. Allowing for the small amount of biological variation in the animals, records kept on chemical components indicate that the same results can be obtained in all cases when the same amount of stimulus is administered and when all other factors remain constant.

Other studies have noted that such drugs as dilantin, used for treatment of epileptics, cause hyperplasia of the gingival (gums) and that diabetics are usually more prone to gingival pathology. With this in mind, plans are being made to undertake other studies such as those with diabetic rats and those treated with dilantin. It is also planned that cortisone and ACTH, which inhibit inflammation, will be used in some of the studies to ascertain the effect these drugs have on arresting and preventing inflammation of tissue.

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Publication Preview

The following manuscripts were received by the SRB Editorial Section between March 29 and April 13.

Andervont, H. B. Problems before the association.

Axelrod, J., et al. The physiological disposition of lysergic acid diethylamide.

Biometrics Branch Staff, NIMH. Patients in mental institutions for mental defectives, and epileptics, Part IV.

Biometrics Branch Staff, NIMH. Patients in mental institutions 1952. Public hospitals for the mentally ill. Part II.

Blough, D. S. Some effects of drugs on visual discrimination in the pigeon.

Bobbitt, J. M. Some comments on mental health activities.

Bowen, W. J. Adenosinetriphosphate and the shortening of muscular models.

Bronstein, E. Radiotherapy.

Davis, G. E., et al. Concerning the life cycle of *Ornithodoros coniceps* (Canestrini), 1890.

DeWitt, W. B., et al. Multiple dietary necrotic degeneration in mice: heart, liver, muscle, and kidney necrosis on a factor 3 vitamin E-free *Torula* yeast ration.

Dorn, E. D., et al. Enzymic degradation of heparin.

Eagle, H., et al. The cytotoxic action of carcinolytic agents in tissue culture.

Findlay, S. P. The synthesis of racemic allocaine and racemic allopseudococaine.

Fish, M. S., et al. Studies on hallucinogenic snuffs.

Fonts, J. R., et al. Some mechanisms of drug potentiation.

Fuortes, M. G. F., et al. Stimulation of motoneurons with intracellular electrodes.

Habel, K., et al. Rabies neutralizing antibody response to different schedules of serum and vaccine inoculations in nonexposed persons.

Haller, J. A., et al. Hypertension due to segmental infraction of the kidney.

Hartley, J. W., et al. Serial propagation of APC viruses in monkey kidney tissue cultures.

Haverback, B. J., et al. The urinary excretion of the serotonin metabolite 5-hydroxyindoleacetic acid in various clinical conditions.

Heller, J. R. The epidemiology and control of cancer.

Herbert, C. L., et al. The management of patients during hypothermia.

Hess, S. M., et al. Persistence of reserpine action after the disappearance of drug from brain-effect of serotonin.

Kaiser, G. C., et al. Ventricular fibrillation: an experimental study comparing various voltages and durations of electric shock in defibrillation of the canine heart.

Kay, J. H., et al. Coronary and carotid artery perfusion during total bypass of the heart.

Kroll, B. H., et al. A survey of general hospitals accepting mental patients.

Liddel, U., et al. Temperature-dependent absorption by CH_3OH and CHCl_3 in the 3μ region.

Mark, L. C., et al. Clinical applications of studies of the physiological disposition of thiopental.

McDonald, R. K., et al. The effect of arginine-vasopressin on adrenocortical activity in man.

NJH Spotlight

McDonald, R. K., et al. The effect of oxytocin on adrenocortical activity in man.

McDonald, R. K., et al. The effect of Piretressin on adrenocortical activity in man.

Nadel, E., et al. Comparative effects of ACTH and LSD on urinary corticosteroids in guinea pigs.

Nadel, E. M., et al. Urinary excretion of corticosteroids in guinea pigs with malignant neoplastic diseases.

Ness, R. K., et al. Evidence that the supposed 3,5-Di-O-benzoyl-1,2-O (hydroxybenzylidene)- α -D-ribose is actually 1,3,5-Tri-O-benzoyl- α -D-ribose.

Newton, W. L., et al. The occurrence of a dog filarid other than *Dirofilaria immitis* in the United States.

Philip, C. B. Records of horseflies in northeast Asia. (Diptera, Tabanidae.)

Pierce, C. E., et al. Liquid-liquid continuous extractor for solvents heavier than water.

Rogosa, M. A selective medium for the isolation and enumeration of the *Veillonella* from the oral cavity.

Schaefer, E. S., et al. A cytopathogenic agent resembling the human salivary gland virus recovered from tissue cultures of human adenoids.

Shimkin, M. B., et al. Survival in untreated and treated cancer.

Sjoerdsma, A., et al. The antiarrhythmic action of Ambonestyl (2-Diethylaminoethylisonicotinamide, MC-4112).

Sokoloff, L. Factors regulating the total and regional circulation of the brain.

Sokoloff, L., et al. The natural history of degenerative joint disease in small laboratory animals. 4. Degenerative joint disease in the laboratory rat.

Sokoloff, L., et al. The natural history of degenerative joint disease in small laboratory animals. 3. Variations in epiphyseal maturation in the head of the femur among inbred strains of mice.

Sokoloff, L., et al. The natural history of degenerative joint disease in small laboratory animals. 2. Epiphyseal maturation and osteoarthritis of the knee of mice of inbred strains.

Sokoloff, L. The natural history of degenerative joint disease in small laboratory animals. 1. The pathologic anatomy of degenerative joint disease in mice.

Stoener, H. G., et al. The epizootiology of bovine leptospirosis in Washington.

Tosteson, D. C. Potassium and sodium binding by nucleotides.

Vaughn, M. In vitro studies on the action of sulphonamide hypoglycemic agents.

Vis, E., et al. Stevioside. IV. Evidence that stevioside is a sophoroside.

Vivian, D. L. Phenazine syntheses. VIII. di-N-oxides.

Vivian, D. L. Phenazine syntheses. VII. Certain disubstituted phenazines.

Vivian, D. L. Phenazine syntheses. VI. N-methyl-phenazinium methyl sulfates.

Walker, G. N. Synthesis of fused-ring compounds via acylation of ketones.

Weinstein, P. P., et al. The *in vitro* cultivation of *Nippostrongylus muris* to the adult stage.

Wittman, M. How states are meeting the problems of getting social workers for mental health programs.

Woke, P. A. A method for detecting evidence of life in arthropod tissues maintained in culture media.



Horace C. Turner

One of NIH's long-time employees is Horace (Chick) Turner, Research Technician (Serology), NIAID-LID, a mild-mannered man who has devoted more than 26 years to scientific research.

Chick's career in science began in 1928 when he joined the Army Medical Department and served three years at Walter Reed Army Medical Center. During that time he became interested in laboratory work, and when his enlistment was up he went to work at St. Elizabeths Hospital. A year later he transferred to NIH as a Laboratory Technician.

In 1946, Chick took part in a study on rickettsialpox in New York City. Working with Dr. Robert J. Huebner, the researchers went into the apartment development where the residents had come down with a fever and rash which resembled chickenpox. It was found that the germ was harbored by rodents and spread to humans by mites living in the rodents' fur. This pointed the way to the control of the disease.

Chick has taken part in many investigations and has gone on many field trips during the past 15 years. He performed a major part of the serology work for the Q fever study conducted in California in 1947.

During World War II, Chick joined the Navy and served in the Hospital Corps as a Pharmacist's Mate at the U. S. Naval Hospital, Ports-

RED CROSS FUND DRIVE CLOSES

The American Red Cross Annual Fund Drive closed on April 20 at NIH, with DRG leading the field with 103 percent of its quota.

The average percentage of participation was 58 percent and five institutes reported over 50 percent of the quota. The total collections at NIH amounted to \$6,260. NIH, as a whole, only reached 40 percent of its goal.

Clarence A. Lowe, Administrative Officer, DRG, who was chairman of the drive at NIH, extends his appreciation to the keyworkers who assisted him.

mouth, Virginia, where he did laboratory work.

Although he is an omnivorous reader, Chick's favorite reading material is anything that will further his technical knowledge and aid him in his laboratory work.

Chick says he likes his work "because we are seeking the truth and trying to find out about the microscopic world in order to aid humans."

Chick is interested in young people and has served as a Scoutmaster of Troup No. 202, Prince Georges County, and has taken many leadership courses offered by the Scouts. He takes pride in pointing out some of the boys who were in his Scout troop who have turned into outstanding citizens.

He is also interested in Masonic work and at present is Worshipful Master of Lodge No. 188 at Beltsville.

Chick's family consists of a daughter, Margaret Anne, a senior at Richard Montgomery High School, and a son, William, who is now in the Marine Corps at Camp Lejeune, North Carolina. Chick's wife, Margaret, is employed at the Beltsville Agricultural Research Center. Another member of the family is a huge Persian tomcat, named Julius Caesar, who is loved by the whole family.

The Turners recently purchased a house at 1925 Henry Road, Rockville, where Chick spends much of his spare time working on do-it-yourself projects. At present he is doing the landscaping in his yard and building a recreation room which, he says, "will come in handy when my two children enter Maryland University next fall and want to entertain their college chums."



R & W NOTES

"The Little Fugitive," part of the R & W Cinema Series, will be held May 9 in Wilson Hall and on May 10 in the Clinical Center Auditorium.

Attention, all golfers! Golf lessons will be given at the Glenbrook Golf Course at the rate of \$5 for five lessons to R & W members. Classes for beginners as well as advanced golfers will be held. For information, call Bill Stalters, Ext. 2175.

The tennis courts will be ready early in May. Claude Kilday, tennis professional of the Kenwood Country Club, will give group lessons to Tennis Club members at the rate of \$5 for five one-hour lessons. Lessons will be given on Tuesdays and Thursdays from 5:15 to 6:15 at the NIH courts. For further information, call Peg Badger, Ext. 591.

The NIH Chorus will present Gilbert and Sullivan's "Trial by Jury" and Kurt Weill's "Down in the Valley" on May 9 at the CC Auditorium.

European tours are being offered to R & W members at special rates. The all-expense tour is \$675 per person, and the flight tour is \$325 per person. The trips are scheduled for August 31, with return trip on September 29. For information, contact Mrs. Helen Schrecker, Ext. 3551.

R & W memberships are still available at the low rate of \$1 per year. At the present time only half of the people at NIH have signed up for 1956 memberships. If you have not joined, see your division representative today. Dues are only \$1 per year.

The 1956 edition of "Life at NIH" will be presented on May 24, 25, and 26, in the CC Auditorium.

Special Parking Privileges Granted

Reserved parking privileges will be granted to physically handicapped employees by the Plant Safety Branch. Qualified persons may apply to their Administrative Officers for further information.

UTERINE CANCER TESTS OFFERED EMPLOYEES

Cytologic tests for uterine cancer are being offered once again to NIH women employees. Deadline for applications for these tests is May 7.

Last year, NCI and the Employees' Health Service cooperated in a joint program of vaginal cytology tests for the early detection of uterine cancer. The tests were made available to NIH staff members in March 1955. The program is to be repeated once a year.

The cell examination, or Papanicolaou test, is a simple, quick, and painless method for the detection of cervical cancer before any symptoms of the disease appear. At this early stage, almost every case of cervical cancer is completely curable. Annual tests are recommended as a means of detecting cancer before it has an opportunity to spread.

The test specimens will be secured under the direction of a registered nurse in the Employee Health Service in the Clinical Center. Participation in this health program will be wholly voluntary on the part of employees and the results of the tests will be confidential.

Awards Program

All employees are invited to attend the Annual NIH Awards Program to be held at 3:30 p.m., May 4, in Wilson Hall. Awards will be presented to 69 employees during the ceremony.

Bloodmobile Visit

The Red Cross Bloodmobile will visit NIH on May 10. You may still make an appointment by calling the Personnel Branch on Ext. 2454.

CREDIT UNION LIFTS RESTRICTION ON SAVINGS ACCOUNTS

Last month the Board of Directors of the Credit Union lifted the restriction on the amount that can be deposited in any one month. Under the new regulations, any amount may be deposited, providing the total in a single account does not exceed \$1,000, or \$2,000 in a joint account. This action was taken because of the large increase in business.

Recording fees on car loans are no longer charged.

DR. SHIMKIN RETURNS FROM RUSSIAN TOUR

Dr. Michael B. Shimkin, Chief of the Biometry and Epidemiology Branch, NCI, who was a member of the United States Virology and Epidemiology Mission to the Soviet Union, returned to NIH last month after a 30-day trip to the Soviet Union.

The Mission visited Moscow, Leningrad, Kharkov, Kiev, and Sukhami. The scientists visited 25 research and educational institutes; met and discussed problems of mutual interest with Soviet scientists; and attended the annual meeting of the Academy of Medical Sciences of the USSR.

Other members of the Mission, organized by the Public Health Service at the request of the Department of State, included Dr. Colin MacLeod, Professor of Microbiology, Bellevue Medical Center, New York University, New York City; Dr. Karl F. Meyer, Professor of Experimental Pathology, University of California Medical Center, San Francisco; Dr. John R. Paul, Professor of Preventive Medicine, Yale University Medical School, New Haven, Conn.; and Dr. Richard E. Shope, Virologist and Member of the Rockefeller Institute, New York City.

DONOR PANEL Cont'd

information on his blood type. Employees whose blood type is needed for testing purposes will be invited to become members of the "Walking Panel of Donors." Panel members will donate 20 cc. of blood at regular intervals, receiving \$2.00 at the time of each donation. (The amount donated is so small that it will not affect donations for other purposes, such as the Red Cross.)

Full details on the program and an application blank for the initial donation will be circulated to all employees this week.

APPOINTMENTS Cont'd

award of the Washington Academy of Science.

In his new post, Dr. Huebner will continue to direct research in the Laboratory's section on Virus and Rickettsial Diseases.