



USIA TV SERIES FILMED AT NIH



Dr. Jose H. Mateos (right), Visiting Scientist in NINDB, is filmed in the Surgical Neurology Branch by a camera crew from Norwood Studios. The USIA-sponsored films will be shown on television in Dr. Mateos' native Mexico City.

Mr. Adler Appointed DRG Info Officer

Mr. Alexander Adler, a pharmaceutical advertising executive, has been appointed DRG Information Officer.

A former NIH employee, Mr. Adler was the first editor of the NIH Record. He joined PHS as a health information specialist and came to NIH in 1949.

For the past seven and a half years, Mr. Adler has worked in the pharmaceutical advertising field. He was associated with the L. W. Frohlich Advertising Agency where he worked on such accounts as Parke-Davis, Johnson & Johnson, and Schering. Prior to this he handled the Wyeth account for the Lewis and Gilman Advertising Agency.

Mr. Adler has a premedical background from George Washington University and spent four years as a research bacteriologist in the U. S. Army.

ROY PERRY NAMED TO STANDARDS COMMITTEE

Roy Perry, Head of the Photographic Section, DRS, has been appointed to represent PHS on the Sectional Committee on Photographic Sensitometry, a division of the American Standards Association.

The American Standards Association is an organization devoted to the standardization of products and materials in Government and industry when such agreements will contribute to the national welfare. Members, appointed for an indefinite period, are selected on the basis of their technical competence and experience.

Mr. Perry joined NIH in 1948, following four years as head of photography for PHS and extensive experience as a public relations photographer in New York City. Under his supervision, the photographic section has been notably successful in developing new techniques to fit the specialized needs of NIH scientists.

AWARDS MADE TO 8 MORE EMPLOYEES

Cash awards were made to eight employees at recent ceremonies.

Three employees of the Section on Germ-free Animal Studies, NIAID, received a \$300 group award at a ceremony July 31. Annie P. Jowett, Louise P. Kendrick, and Paul C. Shade were honored for their diligence and skill in mastering the highly specialized techniques necessary in caring for germ-free animals.

After two weeks of intensive training at the Lobund Institute of Notre Dame where the technique was developed, they helped to assemble the supplies and equipment for handling and caring for germ-free animals. The patience and ingenuity of the three technicians has been largely responsible for the successful and rapid development of the germ-free unit at NIH.

Agnes Preston, NHI chemist, was presented with a check for \$200 August 1, in recognition of her superior performance in the Laboratory of Kidney and Electrolyte Metabolism. Her ability to learn new and complicated skills, assume responsibility, and maintain a high level of productivity has been outstanding. The scientists with whom she works feel they would be less ably assisted by two average assistants.

Edwin C. Thompson, medical bacteriologist in NIAMD, received \$100 for his design of a special tray for handling and staining frozen tissue sections in quantity. The tray makes it possible to stain sections more rapidly and uniformly. Mr. Thompson's award was presented at a ceremony August 1.

At the same ceremony Mary E. Stull, Section on Nutrition, NIAMD, was awarded \$25 for suggesting a new type of feed dish cover which is

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Glowing Drug Lights Way In Tumor Research

No. 191 in a Series



Mice with experimental tumors are examined under ultraviolet light. Animal on left received tetracycline and shows no fluorescence. Animal on right received the drug and shows fluorescence, which is indicated by the bright areas of the tumor.

NCI investigators have found that certain kinds of tumors absorb an antibiotic, tetracycline, that can be detected by ultraviolet light. Early experiments with this phenomenon point to the possibility of a new technique to assist in the diagnosis of human cancer.

Participating in this study are Drs. David P. Rall, Ti Li Loo, Montague Lane, Margaret G. Kelly, Edward D. Titus, and Richard L. Swarm.

The first evidence of this phenomenon resulted from a chance observation at the autopsy of a cancer patient. During the course of her treatment, the patient had received many drugs. Since it was already known that some of these drugs showed fluorescence under ultraviolet light, a question occurred: do any of these fluorescing drugs accumulate in tumor tissue and continue to fluoresce?

A close examination by ultraviolet light was made of both normal and tumor tissue. The tumor tissue glowed with a yellow fluorescence. Here was a hunch that paid off.

The next step was to find which of the drugs given to the patient had collected in the cancer tissue. The fluorescing drugs were then tested systematically in mice. The

screening revealed that tetracycline and its related compounds, aureomycin and terramycin, caused the fluorescence.

Once the drug was identified, further information about the effect of tetracycline in laboratory animals was sought. A group of tumor-bearing mice was given the drug by mouth or injection, and all of them were autopsied within three weeks.

In the mice autopsied within 24 hours after the drug was given, fluorescence appeared in both normal and tumor tissue. In mice autopsied two days to three weeks after the drug was given, fluorescence persisted in the tumor tissue. The normal tissues in which fluorescence remained were the teeth and growing bones.

Results similar to these have been obtained in rats and other animals having a variety of experimental tumors.

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Dr. Charles Dayton

Dr. Charles S. Dayton, Training Officer in the Personnel Branch, OD, died suddenly on Sunday, August 11, at his home, 5204 Flanders Ave., Kensington, Md. He had seemed in good health and was active in conferences and program planning through Friday.

Dr. Dayton came to NIH in 1955 from the Navy Department where he served as education officer for four years. He had been a Baptist minister and educational supervisor for parishes in New Jersey, Michigan, and Pennsylvania.

During WWII, Dr. Dayton served in the Chaplain's Corps of the U. S. Army. He was stationed in Hawaii and took part in the campaigns of the Gilbert and Marshall Islands.

After graduation from Rutgers University in 1925, Dr. Dayton taught English Speech and Literature at Nagoya College, Japan. He traveled extensively in Europe and the Orient.

He was graduated from the Colgate-Rochester Divinity School in 1929, and took his M.A. degree at Union Seminary and Columbia University the next year. He received a Doctor of Philosophy degree from the University of Pittsburgh in 1938.

Dr. Dayton is survived by his wife, Ruth, an NIH employee, and two children, Kathleen Ruth and Keith Walter.

Softball Team Wins 2d Championship

The NIH softball team won another championship August 15, when it defeated the College Park team 3-2 in the D. C. Recreation Department Class A League. The NIH team also holds the Montgomery County Softball title.

The three NIH runs in Thursday's game were made in the first inning by Gus Bengtson, Marshall Lyles, and Clarence Isreal.

On August 21, the team began a series of games against winners in other regional leagues sponsored by the D. C. Recreation Department.

The ability of tetracycline to seek out and accumulate in certain kinds of tumors may provide a basis for a variety of applications in cancer research. Besides the diagnostic implications, the drug may be used to help determine the biochemical differences between normal and healthy tissue. In modified form, tetracycline also may some day lead to the synthesis of new agents useful in destroying tumor tissue.

NIH Spotlight



Irene D. Skinner

No one in the Administrative Services Section of DBO is surprised to see petite Irene Skinner take time off from her responsible job as Section supervisor to repair an ailing typewriter or duplicating machine. Irene's long-standing fascination with machines has made her quite adept at repair.

Fortunately, Irene's ingenuity is not limited to mechanical skill. She has earned the respect of all around her as a capable and highly efficient administrator.

Under Irene's direction, 24 or more typists and secretaries in the Section handle all travel orders and duplicating for the CC, and perform many other special services. Mornings she usually spends teaching the four-week clerical training course she inaugurated three years ago. Over 250 NIH secretaries and typists have attended these unusual classes.

Irene came to the Research Facilities Planning Branch, OD, eight years ago with a wealth of experience from the War Assets Administration, the State Department, and the Foreign Economic Administration. A brief interval with a N. Y. construction firm convinced her that Government work was far more interesting.

She was overjoyed when FEA offered her a chance to go overseas, and she celebrated the end of World War II in mid-Atlantic. After six months as head of the travel section for the Technical Industrial Intelligence Commission in London, Irene traveled to France and Germany. She was captivated by the historic charm of quaint German towns such as Heidelberg.

Travel, however, has always been one of Irene's favorite pastimes; during vacations she has visited all but seven states in the U. S.

Irene grew up in Muncy, Pa., the youngest of her family. After moving to Washington, she attended Eastern High School, and particularly enjoyed studying history and literature.

Now Irene's interests center around a home in Rockville that she and her husband, Bill, a psychologist in NIMH, bought last year. They met several years ago in a supermarket where Bill was working while attending Catholic University, and renewed acquaintance when he came to NIH.

Energetic Irene has an almost unending list of after-work activities. As chairman of the R & W discount committee, she compiled the present list of discounts. She has been a driver for the Red Cross Motor Corps, and spends one night a week bowling with the NIH League.

The Skinners especially enjoy being sponsors of an active youth group at their church and in the greater Washington area. With the group Irene attends many youth conferences and outings.

Other projects she is planning include sewing and learning to paint and sketch. Under Bill's influence, Irene even finds time to read books on psychology, but, she admits mischievously, she likes detective stories better.

GRADUATE SCHOOL OFFERS NEW COUNSELING SERVICE

An evening counseling and testing service will begin at the Department of Agriculture Graduate School on September 3.

The service will include an initial interview, at no charge if the student decides he does not want to continue; a testing session; and counseling on the results of the tests.

The counseling service is under the direction of Dr. Paul MacMinn, Office of Education guidance and personnel specialist.

The cost of the service will be \$20. Evening appointments should be made in advance at the Office of the Graduate School, Room 1031, South Agriculture Building, 14th Street and Independence Avenue SW.; or call REpublic 7-4142, ext. 6337.

AWARDS Contd.

easy to clean, simple to handle, and provides less chance of contamination.

Marjorie Lamb and Evelyn T. Pelzman, information receptionists in the CC, also received \$25 awards at a ceremony August 7. Mrs. Pelzman suggested that a sign clarifying patient admittance hours be exhibited outside the CC. Miss Lamb's suggestion was that a bell be installed on the CC sundeck for patients unable to open doors.

NIAID EMPLOYEES RECEIVE \$300 AWARD



Dr. Justin Andrews, NIAID Director (2d from left), discusses the problems of caring for germ-free animals with award winners (left to right) Annie P. Jowett, Paul C. Shade, and Louise P. Kendrick following the awards ceremony.

STUDENTS, SCIENTISTS, AND PHS BENEFIT FROM CO-STEP



Joanne W. Economan uses a scaler to measure radioactivity in plasma. A senior at the University of Maryland Medical School, she is employed in NINDB.



William L. Wagner, engineering student at Virginia Polytechnic Institute, studies blueprints of construction projects at NIH.

Sixty-one medical, dental, engineering, and science students serving as reserve officers in the Commissioned Corps are adding to their professional knowledge and experience while aiding NIH scientists this summer.

The professional school students are employed in all seven Institutes, the CC, and two Divisions under a PHS program known as CO-STEP--Commissioned Officer Student Training and Extern Program.

"Through CO-STEP," says Dr. Murray Brown, Chairman of the PHS CO-STEP Committee, "we hope to keep pace with the expanding needs of PHS--to interest and acquaint promising students with career opportunities the Service offers in research, preventive medicine, clinical medicine, and many other fields."

A summer spent at NIH affords students an opportunity to use their professional knowledge while working with outstanding scientists. Special seminars and training programs familiarize them with the latest research developments and techniques.

William L. Ashburn, a third-year medical student at the University of Maryland, working in the Laboratory of Biology, NCI, calls the program, "an ideal opportunity for students to see what PHS has to offer at a time when they are formulating their future careers."

The official list of candidates eligible for "training duty" under the program is established by a PHS CO-STEP Committee.



Kent A. Peterson, third-year medical student, uses a separatory funnel in his experiments in NIAID.



In NINDB, Donald H. Silberberg, a senior at the University of Michigan Medical School, operates an electromyograph.



Irvin B. Moore and William T. Ward, medical students employed in the Employee Health Service, take a periodic blood sample from an NIH employee exposed to infectious disease agents.



John L. Fox, a junior at George Washington University Medical School, selects X-rays for inclusion in the CC X-ray library.