Dr. Fredrickson to Head Institute of Medicine; Succeeds Dr. Hogness

Annual AAAS Meeting Includes Symposium On Grants, Contracts

The American Association for the Advancement of Science is holding its 140th annual meeting in San Francisco, Calif., from Feb. 24 through March 1, with a large number of NIH scientists actively participating.

On March 1 a symposium will be held on Policies and Procedures in the Use of Grants and Contracts by the NIH in the Support and Conduct of Biomedical Research.

Speaking at this symposium will be: Dr. Robert S. Stone, NIH Director; Dr. John F. Sherman, Deputy Director, and Dr. Thomas E. Malone, Associate Director for Extramural Research and Training.

Also, Dr. Leon Jacobs, Associate Director for Collaborative Research; Storm Whaley, Associate Director for Communications, and Dr. Richard B. Stephenson, training officer, ADERT.

(REE AAAS MEETING, Page 4)

RESEARCH ON AIRCRAFT CARRIER

NIH Scientists Conduct Cardiovascular Studies of Astronauts After Splashdown

The NIH Record went to press before the scheduled splashdown.

A team of NIH scientists will collaborate with members of the NASA biomedical staff in assessing the cardiovascular function of Skylab III astronauts following their splashdown on Feb. 8.

The NIH participants include Drs. Stephen Epstein, Walter Henry, Robert Goldstein, and David Redwood, all in the National Heart and Lung Institute’s Cardiology Branch.

Engineers Collaborate

A group of engineers in the Division of Research Services, headed by Jimmy M. Griffith of the Biomedical Engineering and Instrumentation Branch, also took part in the project.

BEIB provided a custom-built ultrasonic scanning system for non-invasive visualization of heart structure for evaluating the effect of prolonged weightlessness on astronauts.

Mr. Griffith is project engineer responsible for the technical aspects of design development and application of the ultrasonic echo-cardiographic scanning system.

Other BEIB personnel who participated include William Schuette, electrical engineer, and Joseph Bucolo, Anthony Vita, George Norris, David Rector, and John Clark, engineering technicians.

The studies will be conducted on board the recovery aircraft carrier. Their purpose is to evaluate the cardiovascular effects of prolonged weightlessness.

(Continued on Page 1)

John Sangster Receives Award for Contributions To Upward Mobility

To recognize the outstanding accomplishments in the field of training and development by persons in the Washington area, 10 awards were given at a recent banquet held at George Washington University’s Marvin Center.

John M. Sangster, director of the Office of Personnel Management, received a citation and plaque for his contributions to the upward mobility of employees.

Presented by the Washington Area Chapter of the American Society of Training and Development and the Washington Training Officer’s Conference, the award cited Mr. Sangster for his “diligence in moving upward mobility from the realms of dream, rhetoric, and policy to the level of program, reality, and results.”

The awards committee of the two organizations also gave special recognition to the NIH Stride training program, and O. H. Last-er, National Cancer Institute training officer.
Nursery School at NIH to Hold Scholarship Fund Drive During Child Care Week—Feb. 25-March 1

The Child Development Center will hold a scholarship fund drive at NIH during Child Care Week, Feb. 25-March 1. The "week" is sponsored by the R & W and CDC's Parents Advisory Committee.

Virginia Burke, child care coordinator, stated that the funds derived from a successful drive will provide scholarships for a number of children of NIH parents who are attending the school on the campus.

Activities during the week will include a slide presentation depicting a school day and a display of handicraft work and paintings made by the pupils, in the lobbies and near the cafeterias of Buildings 10 and 31.

Fact sheets explaining the day care program, school hours, and admission requirements will be available at the cafeterias or snack bars of Buildings 10, 31, 35, 13, NLM, and the Westwood Building.

There will also be information on the funding and goals of the center. Parents of pupils attending the center will be on hand to answer additional questions.

On the opening day of the fund drive—Feb. 25—Theodore Taylor will discuss child care issues at noon in Bldg. 1, Wilson Hall. Mr. Taylor is executive director of the National Day Care and Child Development Council of America Inc.

On the final day of the drive—March 1—Sen. J. Glenn Beall, Jr., of Maryland will lead a discussion on child care at noon in Wilson Hall.

During Child Care Week, NIH employees may visit CDC in Bldg. 35, Ext. 6514. Contributions to the scholarship fund—which are tax deductible—will be accepted there, and may also be sent to Mrs. Burke's office, Bldg. 31, Room 2B-51.

Anacostia Clinic Seeks More Volunteer Doctors

In order to continue serving a neighborhood clinic in Anacostia, additional volunteer interns and pediatricians are required.

Staff From NIH

NIH physicians have staffed the clinic—SENAB (S.E. Neighborhood Action Board) during the past 4 years.

Volunteers are asked to give 3-4 hours a week, but the evening. Twice a month.

For further information, call Dr. Frank Gamaech, Ext. 64589.

Skilled, Unskilled Golfers Invited To Women's Golf Ass'n Meeting

The NIH Women's Golf Association will hold its organizational meeting on Thursday, Feb. 28, at noon in Conference Room 5, Bldg. 35.

New members and golfers at all levels of skill are welcome to join. There are three flights, A, B, and C, depending on handicap. Membership in R&W is required.

Anyone interested in joining but unable to attend the meeting may contact Connie Perrey, Landow Bldg., Ext. 65281, or Rose Sheibre, Parklawn Bldg., 443-3860.

THE NATIONAL LIBRARY OF MEDICINE'S 1973 EEO AWARD WINNERS were honored at a recent ceremony for their contributions to NLM's Affirmative Action Plan for equal opportunity. Dr. Martin Cummings (r), NLM Director, presented the awards; Raymond Jackson (2nd from right), NIH EEO officer, addressed the group, and Arthur Robinson (l), NLM EEO coordinator, presided.

L to 1st row are: Dr. Cummings, Willie W. Morgan, Sheldon Kotzin, Margaret Johnson, Cecile Quintel (chairperson, EEO committee), Bryant Gorman, Mr. Jackson, and Mr. Robinson. In the 2nd row are: John Olive, Harold Tarpilley, Phillip Coleman, Robert Cross, and Niles Austin.
Credit Union Will Hold Annual Meeting Feb. 28

The NIH Federal Credit Union, third largest in Maryland, will hold its annual meeting at noon, Thursday, Feb. 28, in the Masur Auditorium.

The Credit Union's annual report will be distributed, and brief summaries will be presented by Dr. Harley Shefield, president; Dr. Norman Sharpless, treasurer, and Joseph Savitsky, chairman of the Supervisory Committee.

4 Vacancies Filled

An election will be held at the meeting for four vacancies on the Board of Directors and two vacancies on the Credit Committee. Each year the Board of Directors elects the CU's officers.

A musical combo headed by Edwin Medermon, who played last year, will again be on hand to entertain. In addition, several door prizes—including a portable black-and-white television set—will be given away.

The two NIH basketball teams participating in the Montgomery County Recreation League will play a doubleheader on Sunday, Feb. 17.

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2 NIH Basketball Teams to Play Doubleheader on Sunday, Feb. 17

The two NIH basketball teams participating in the Montgomery County Recreation League will play a doubleheader on Sunday, Feb. 17, at Francis Scott Key Junior High School.

The "White" team will face Johns Hopkins Applied Physics Lab at 1:45 p.m., followed by the "Red" versus the Trane Corporation at 9 p.m. Admission is free. NIH employees, patients, and relatives are welcome to attend.

To get to Key Jr. High School, take the Beltway (I-495) to the New Hampshire Avenue exit north toward White Oak. Continue to Schindler Drive (across from the Naval Ordnance Lab) and turn left—the school will be on the right.

Individual Learning Center Open to All Employees

A student takes a genetics course on the ILC's autotutor machine.

Last November an Individual Learning Center was established at NIH. The center—sponsored by the Training and Education Branch, OPM—is located in Bldg. 31, Room B2B03.

If you haven't seen the facility for yourself, it's well worth a visit. The ILC consists of a room full of sophisticated teaching machines and study carrels.

The learning center is designed to provide NIH employees with a wide range of instruction materials. If you're interested in brushing up on job skills, improving your English, or even learning to speak a new language, ILC has something to offer you.

This alternative to regular classroom instruction is geared to the needs of each individual. Students choose programs that interest them and then pace themselves as their work schedule permits.

They can drop in during a lunch hour, after work, or during the workday itself when it is convenient to be away from the office.

Courses range from English, basic decision making, and statistics to elementary electronics. Program lengths run from 3 to 150 hours.

Although the main ILC is located in Bldg. 31, there are two other facilities in the National Library of Medicine and in Bldg. 13.

Arrangements can be made for employees to study at the site most convenient for them.

For more information regarding the ILC, contact Pete Eddy, Ext. 62146.

Help in Computing Taxes Given in Buildings 10, 31

Information and help in computing Federal income tax returns are available at NIH employees in Bldgs. 10 and 31. Schedules are posted on all official bulletin boards.

A draft copy of the tax return should be completed as far as possible and brought to the tax assistant. Tax forms are available at the NIH Credit Union, Bldg. 31, Room G1-315, and the Westwood Bldg., Room 436.

Assistance may be requested from: Nellie McLeish, Bldg. 10 cloak room, Ext. 65374, or Mary Spatthropoulos, Bldg. 31, Room 4B-36, Ext. 62773.

Hours Stated

Miss McLeish is at her post on Tuesday, 11:30 a.m.-4:30 p.m.; Wednesday, 9 a.m.-4:30 p.m., and Thursday, 11:30 a.m.-4:30 p.m. On Thursday evening, from 5 to 7 p.m.—by appointment only—Miss McLeish also will help employees with their tax returns.

Miss Spatthropoulos' schedule is Monday, Tuesday, Wednesday and Friday from 9 a.m. to 2:30 p.m.

Meeting Held in March to Discuss Fed' l Funding

The Ninth Institute on Federal Funding for Colleges, Universities, Hospitals, and Nonprofit Research and Training Organizations will be held March 19-20 in D.C.

This program—arranged by the National Graduate University—will be on research, training and demonstration support from major agencies such as HEW, National Science Foundation, National Endowment for the Humanities, Department of Defense, and the Environmental Protection Agency.

Among those from NIH describing their programs and priorities will be Storm Whaley, Associate Director for Communications, Office of the Director; Dr. William A. Walter, deputy director, Division of Cancer Research Resources and Centers, NCI; Dr. Roman Kulwich, assistant associate director of Extramural Programs, NIAID, and Dr. Samuel Schwartz, Review Branch chief, Division of Extramural Affairs, NHLI.

Information may be obtained from Dr. Jean K. Boek, Division of Special Studies, National Graduate University, 2408 Wisconsin Avenue, N.W., Washington, D.C. (966-5100).

Safety Tips for NIH

1. Wear proper eye protection whenever you are in the laboratory.

2. Wear gloves and aprons when handling cryogens, corrosives, acids, or caustics.

3. Use additional face and body protection when using reactive chemicals.

4. Use a proper respirator or a supplied air mask when handling highly toxic materials.

For further information contact Radiation Safety, Ext. 65774; Environmental Services, Ext. 66034, or the Safety Office, Ext. 65323.

Dr. David M. Neville, Jr. (I), chief of the Section on Biophysical Chemistry, NIMH Intramural Research Program, receives the PHS Commendation Medal for his work with membrane-specific proteins from Dr. John C. Elchhat, Director of NIMH Intramural Research.

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4th New Drug Seminar Will Be Held Feb. 15

The fourth New Drug Seminar will be held on Bleomycin this Friday, Feb. 15, in the Masur Auditorium, by the National Cancer Institute's Division of Cancer Treatment.

Bleomycin (Rioloxane) is a new antitumor antibiotic originally developed in Japan and recently approved by the Food and Drug Administration for use in the United States.

Bleomycin is approved for treatment of malignant lymphomas, squamous cell tumors of the head and neck region, and testicular neoplasms.

Dr. C. Gordon Zubrod, director of the Division of Cancer Treatment, will make introductory remarks at 9 a.m., and the open seminar is expected to last until mid-afternoon.

Dr. Norman Sharpless, treasurer, and Joseph Savitsky, chairman of the Supervisory Committee.
SCIENTISTS STUDY ASTRONAUTS ON CARRIER

(Continued from Page 1)

Previous post-flight observations in astronauts have suggested that prolonged weightlessness produces temporary adverse effects on cardiovascular performance.

For a short time after the astronauts return to earth, their hearts appear smaller on X-rays than before the flight and their hearts' output of blood during exercise is markedly reduced.

Also, during the post-flight period, astronauts almost invariably experience postural hypotension—an abrupt drop in blood pressure that may cause dizziness when they stand up after sitting or lying down.

Cause Unknown

It is not known whether these temporary cardiovascular effects are due to deterioration in heart function, reduction in circulating blood volume that occurs during space flights, or to temporary impairment of the baroreceptors (nerve terminals located in blood vessels which sense pressure in vessels) that might be caused by prolonged weightlessness.

Blood volume is an important determinant of heart performance because, after all, the heart can pump only as much blood as it receives from the great vein (venous return).

Blood volume is reduced by space flights; consequently the size and output of blood of the main pumping chambers also are reduced.

Baroreceptors are important because they cause the heart to stabilize blood pressure under various conditions, much as a thermostat acts to stabilize room or home temperature.

Baroreceptors, such as those of the carotid sinus (in the carotid artery of the neck), continuously monitor arterial blood pressure. Any abrupt shift in blood pressure causes them to initiate neural reflexes through the autonomic nervous system.

These autonomic reflexes bring about appropriate changes in blood vessel tone or in heart performance, so as to hold blood pressure steady or to minimize the effects of BP shifts on bloodflow to the organs and tissues.

To study the effects of weightlessness on the cardiovascular system, the scientists will use echocardiography, a painless, non-invasive technique by which they can visualize the internal structure of the heart on a beat-by-beat basis.

From this data, they can determine the size of the heart and its main pumping chambers, the amount of blood received and pumped per beat, and other indices of heart performance.

The procedure entails beaming high-frequency sound waves at the heart from a source placed on the chest wall. Like X-rays, ultrasound can penetrate body tissues and fluids.

Wave Is Reflected

However, when ultrasonic waves encounter an interface (such as that between blood and tissue, or vice versa)—such differing from the other in the impedance that it offers to the ultrasonic waves—a portion of the wave is reflected.

The echo can be picked up, converted into an electrical signal, and recorded for analysis.

For example, an ultrasonic beam directed at the left ventricle (ignoring the echoes from the chest wall, rib cage, lungs, and other intervening tissues) would be reflected first from the anterior surface of the ventricle, then from the interface formed by the inner ventricular wall and the blood contained within the ventricle, and finally from the blood-tissue interface of the posterior ventricular wall and posterior ventricular surface.

The same technique might well be applicable to finding out how many layers there are in an onion.

The scientists used echocardiography to assess heart function under various conditions before lift-off. The same technique will be used to obtain similar functional data after splashdown.

By comparing preflight and post-flight data, the scientists hope to determine whether and how much cardiovascular function is impaired by weightlessness, the mechanism responsible for any deterioration in cardiovascular performance, and whether it is transient or permanent.

Employee Health Service

To Show ‘Heart’ Movie

The Employee Health Service will observe Heart Month with the showing of “I Am Joe’s Heart,” a 26-minute color film, on Feb. 20–21.

Before coming to NIH in 1966, Dr. Nusser was professor of neuroanatomy and headed the physiology department at the College of Osteopathic Medicine and Surgery in Des Moines.

Dr. Wilford E. Nusser, recently appointed chief of the Scientific Programs Branch of the National Eye Institute, will be responsible for developing and administering the research and training activities of the Institute’s grants and awards programs.

He will work under Dr. George Brooks, NEI’s associate director for Collaborative and Extramural Programs.

A graduate of Bethel College, Dr. Nusser received his M.S. degree in 1959 from Kansas State College, and his Ph.D. in 1958 from Iowa State College.

He was formerly professor of neuroanatomy and head of the department of physiology at the College of Osteopathic Medicine and Surgery in Des Moines.

In 1967 he became a health scientist administrator at the National Institute of Arthritis, Metabolism, and Digestive Diseases, serving there until his present appointment.

Employee Health Service

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The Employee Health Service will observe Heart Month with the showing of “I Am Joe’s Heart,” a 26-minute color film, on Feb. 20–21.

The film, an adaptation of a Reader’s Digest article, is narrated by Henry Morgan.

Film showings are scheduled in the Medical Auditorium for Wednesday, Feb. 20, at 11:30 a.m., 12:15 and 5:30 p.m., and in the Westwood Conference Room D, for Thursday, Feb. 21, at 1:15 and 2 p.m.
Test to Detect Nicotine in Smokers' Blood May Identify High Risk Cancer Patients

By Tom Flavin

A highly sensitive test to detect nicotine in the blood or urine of smokers has been developed under a research contract awarded by the National Cancer Institute.

The test can detect nicotine, and its principal byproduct, cotinine, in amounts of less than a nanogram (one billionth of a gram).

The new technique, developed by Dr. Helen Van Vunakis, Dr. John Langone, and Hilda Gjika, Brandeis University, may aid scientists in identifying those with a high risk of developing lung cancer, heart disease, or other smoking-related illnesses. The test will also contribute to ongoing NCI research for a less hazardous cigarette.

Nicotine is not thought to be a cause of lung cancer (it is linked to heart disease) but provides a useful measure of a smoker's simultaneous exposure to cancer-causing substances in tobacco smoke.

Previous methods of measuring nicotine and cotinine levels in blood or urine were either too expensive or insensitive for processing large numbers of samples. This new technique may permit scientists to accurately and economically assess exposure to tobacco smoke, rather than using previous estimates based on the daily number of cigarettes smoked.

New Studies Indicated

Such estimates do not measure critical variables such as: how much of the cigarette is smoked; how deeply the smoke is inhaled; how long it is retained in the lungs; and the strength of the tobacco.

By determining the exact blood level of the nicotine and cotinine, it may be discovered, for example, that a very light inhaler of 40 cigarettes a day is exposed to fewer toxic effects than a deep inhaler of 10 cigarettes every 2 days.

Less hazardous blends of tobaccos and filters can also be identified with greater accuracy because of the test's sensitivity. The researchers made two observations concerning the future use of this radioimmunooassay test. First, there was little correlation between the number of years an individual had smoked and the nicotine and cotinine levels in his blood or urine.

Cotinine to Be Studied

Secondly, nicotine was quickly detoxified after smoking, but its principal metabolite, cotinine, persisted at relatively stable levels for 12 hours or more. As a result, future studies might more reliably test for cotinine rather than for its less stable parent compound.

In using this technique, antibodies are produced to bind specifically with either cotinine or nicotine. In the later case, a measured amount of pure nicotine is "labeled" with a radioactive tag and mixed with the blood or urine obtained from the smoker.

This mixture is then added to the antibody solution and the antibodies bind the nicotine at random. After any unbound nicotine is removed, the remaining level of radioactivity indicates exactly how much nicotine was present in the smoker's sample.

Dr. Herbert J. Bapp, chief of NCI's Biology Branch and project officer for this contract, said, "The most difficult aspect of the radioimmunoassay technique is to develop specific antibodies. Dr. Van Vunakis and her associates have done an outstanding job of this on smoking research."

Jim Dickinson (r), Clinical Center Unit, Office of Engineering Services, accepts a trophy from John W. Higginbotham, Jr., executive committee chairman, 1973 Key West, Fla., Fishing Tournament. Mr. Dickinson was awarded first place for his record 240-lb. pound blue marlin hooked on June 16, 1973. He also set an area record with a catch of three billed fish in one week and received citations in two other categories.

Wayne Tolliver Retires From Gov't Service

Wayne E. Tolliver has retired after more than 30 years of service in the Federal Government and over 10 years at NIH as chief of the Manpower Analysis Branch in the Office of the Director.

After serving as a lieutenant in the U.S. Navy during World War II, Mr. Tolliver joined the Veterans Administration as chief of the Educational Benefits Section in the Regional Office in Indianapolis.

He moved to Washington, D.C., in 1959 as a special assistant to the Director, Vocational Rehabilitation and Education in the V.A.

In 1961, Mr. Tolliver became acting head of the Higher Education Surveys Section in the U.S. Office of Education. There he was responsible for the Graduate Enrollment and Earned Degrees Surveys.

Mr. Tolliver joined NIH in 1963. In the Office of Resources Analysis he directed and coordinated NIH manpower surveys; for most of this period he also helped to coordinate the HEW-wide CASE reporting system for the Assistant Secretary for Health.

He authored a series of publications entitled Trends in Graduate Enrollment and Ph.D. Output in Selected Science Fields and DHEW Obligations to Institutions of Higher Education and other Nonprofit Organizations.

Mr. Tolliver owns a motor home, and (barring gas rationing) he and his wife plan to travel extensively throughout the North American continent.

Mr. Tolliver was honored by more than 100 colleagues and friends on Jan. 22 at a retirement party at the Commissioned Officers Mess, National Naval Medical Center.

Dr. Jacek Pietrzyk Wins Polish Prize for Thesis

Dr. Jacek Pietrzyk, a guest scientist with the Epidemiology Branch, National Institute of Child Health and Human Development, was recently awarded The Prize of the Minister of Health of Poland.

This award, given annually by the Polish government, is for an outstanding thesis on a scientific subject in the medical field.

Works in Krakow

Dr. Pietrzyk is a pediatrician at the Institute of Pediatrics, Medical Academy in Krakow.


Since this past November, he has been working at NICHD on epidemiological problems connected with congenital malformations in children, especially those involving the central nervous system. Dr. Pietrzyk will remain at NIH until June when he will return to his institute.

Dr. Thomas J. King has been named NCI's acting associate director for Research Programs, Division of Cancer Research Resources and Centers. Prior to this appointment, he was program director, National Bladder Cancer Project and the National Prostatic Cancer Project. In 1972, Dr. King was a co-recipient of the Charles Leopold Mayer Prize awarded by the Académie de Science, Institut de France.

and the test is highly accurate and specific.

"This technique may be very useful in other areas of cancer research, such as accurately measuring the blood level of cancer drugs in patients receiving treatment, and detecting suspected carcinogens in healthy people."

The study has been published in the December 1973 edition of Biochemistry.
Noted Scientist Sought
To Direct Basic Cancer Research at Frederick

A search committee is seeking a scientist of international reputation in cancer research to develop, organize, and direct a program of basic investigations relating to cancer at the Frederick Cancer Research Center of the National Cancer Institute.

The Center is operated by Litton Bionetics, Inc., a Bethesda division of Litton Industries, under contract with NCI. The basic research director will be a Litton Bionetics employee.

One to two years will be required to put the basic research program into full operation, at which time its annual budget may reach $2.5 million.

It is estimated that 80 to 100 technical and support personnel will be employed, including 10 to 20 senior research scientists.

The director of this program under a strong director will be an important step in making FCRC a center of excellence in cancer research," said Dr. Frank J. Batsch, Jr., NCI Director.

"It will enable us to achieve our goal of an optimum balance between basic and applied research.

"FCRC has made good progress in constructing facilities and establishing a sound applied research program," he noted.

"Now we are ready for a top-flight scientist who can organize a program of innovative biological research relating to the cause, treatment, and prevention of cancer."

The program was approved by the National Cancer Advisory Board at its Nov. 27, 1973, meeting.

Shepard Kamp, NIMH Property Management Specialist, Retires

Shepard Kamp, a property management specialist with the National Institute of Mental Health, has retired after 31 years of Federal service.

At a farewell luncheon attended by friends and fellow workers, he was presented with a portable color television. His wife, Edna Lee of the National Cancer Institute, and their daughter, Mary Lee were also at the luncheon.

Mr. Kamp had worked with researchers in the NIMH Intramural Program since 1958. He was known for his ability to quickly locate many hard-to-get items that were required for special studies.

Dr. Steinschneider Gives First Lecture in Series On Sudden Infant Death

A series of lectures, entitled New Research Perspectives in the Sudden Infant Death Syndrome 1974, will be given at NIH.

The series is sponsored by the Perinatal Biology and Infant Mortality Branch, National Institute of Child Health and Human Development.

Dr. Alfred Steinschneider will deliver the first lecture. His talk, "New Approaches for Evaluating Infants at Risk for Sudden Infant Death Syndrome," will be given Feb. 19 at 7:30 p.m. in Wilson Hall, Bldg. 1. Dr. Steinschneider is associate professor of pediatrics, State University of New York, Upstate Medical Center.

Dr. George B. Darling (r), Fogarty Scholar, chats with the NICHD Gerontology Research Center staff after a recent seminar held in Baltimore. He spoke on Longitudinal Studies of Aging in a Japanese Population. Dr. Reubin Andres, GRC assistant chief, also attended the seminar.

Dr. Steinschneider's son, John O. Steinschneider, is assistant chief, NICHD Gerontology Research Center.

Dr. Steinschneider, who has just been named director of the NICHD Gerontology Research Center, is one of the country's preeminent biostatisticians. He was born in 1920 in New York City, where he attended public schools and graduated from Hunter College in 1940.

He received his Ph.D. from Harvard University in 1946 and was a consultant in biostatistics for the American Cancer Society from 1946 to 1952.

He joined the National Institutes of Health in 1952 as a research biostatistician and has since become chief of the Biostatistics Branch of the Office of Extramural Research. He is a fellow of the American Statistical Association and a member of the American Association for the Advancement of Science, the American Public Health Association, and the American Statistical Association.

Dr. Steinschneider is also a member of the National Academy of Sciences, the National Academy of Medicine, and the American Society for Clinical Investigation.

He has been a member of the National Heart, Lung, and Blood Institute's Board of Scientific Counselors since 1964 and was elected to the National Academy of Sciences in 1971.

He has served as a consultant to numerous government agencies, including the National Cancer Institute, the National Heart, Lung, and Blood Institute, and the National Institute of Allergy and Infectious Diseases.

Dr. Steinschneider has published numerous articles on biostatistical methods and applications in such journals as the Journal of the American Statistical Association, the Journal of the Royal Statistical Society, and the Journal of the American Medical Association.


Dr. Steinschneider is married to Margaret B. Steinschneider and has one daughter, Mary Lee.

He is the recipient of the National Heart, Lung, and Blood Institute's Distinguished Service Award, the National Heart, Lung, and Blood Institute's Distinguished Service Award, and the National Heart, Lung, and Blood Institute's Distinguished Service Award.

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NIH BUDGET REQUEST PROVIDES $1.8 BILLION

(Continued from Page 1)

The National Heart and Lung Institute budget for FY 1975 is $599 million, an increase of $32 million above the FY 1974 level.

The National Blood Research program will continue to emphasize studies and research in blood resources, including research on hemoglobin, new methods of diagnosis and treatment, techniques for blood typing and donor-recipient blood transfusion.

NHLI’s Sickle Cell Disease Program will continue to identify new therapy and support the National Comprehensive Research Centers for sickle cell research and the demonstration of community services.

The FY 1975 budget figure for the other Institutes is about the same level as the FY 1974 appropriation.

Studies supported by these Institutes range from research into the cellular and molecular basis of disease through specific diseases such as diabetes, and asthma, and into special areas of interest such as the sudden infant death syndrome and acupuncture and pain.

Funds budgeted for the National Library of Medicine, $27.7 million—$1.4 million above FY 1974—will enable it to continue basic library operations.

NIH's Tobacco Research and Smoking Machines Employed in Search of Safer Cigarettes

Here is a smoker that puffs 2,000 cigarettes an hour. The smoking machine—one of four being used in the NCI project—collects the same tar and nicotine residues that are normally trapped in a human smoker's lungs.

The year 1974 marks the 10th anniversary of the Surgeon General's report linking cigarette smoking to lung cancer. In 1968 the National Cancer Institute started a research program to find a cigarette for smokers who cannot quit.

Dr. Giora B. Gori, acting deputy director, Division of Cancer Cause and Prevention, NCI, said, “If we can produce a tobacco with a low rating for tar and nicotine and make a filtered cigarette that will burn more efficiently—and also a good tasting cigarette—then those of you who must smoke will be less likely to develop disease.”

Special machines have already smoked over 50 million cigarettes. Smoke from these experimental cigarettes is condensed by the smoking machine and collected in a glass trapping system.

Technicians test the tar and send it to laboratories where researchers use the condensate to paint the backs of white mice, which sometimes produces tumors. However, the lower the amount of tar in the condensate, the fewer tumors induced.

Long-Term Picture Given

In addition, smoke inhalation tests done throughout the normal life span of experimental animals give scientists a long-term picture of the amount of lung damage caused by smoke from the newly-developed cigarettes.

Researchers will continue to test cigarette companies and the public about lessons learned as soon as they come to light.

Many smokers have quit. However, millions of Americans still smoke. As the search for a safer cigarette continues, NCI officials point out: If you are not a machine, don’t smoke.
Germs Don't Stand a Chance...

Frances Barber (l) and Ella Burton assemble treatment trays.

Novella Oglesby prepares a special tray of supplies.

Stanford Hunucker loads a gas aerator. (Items must be aired for 1 day following gas sterilization.)

Rosa Seabrooks loads supplies ready for decontamination.

Photos by VIA

Germs Don't Stand a Chance...

Dorothy Fox, night supervisor, closes the door of the sterilizer.

Annie Caldwell (l), coordinator, and Pearl Soloman fold an operating pack.

Evelyn Bowling sets the potentiometer, a device that indicates the amount of heat present throughout the sterilizing cycle.

Syringe barrels and shafts are carefully checked and matched up.

The success of many medical procedures performed in the Clinical Center hinges on the work of 28 people, each with an average of 8 years experience in the Central Sterile Supply Service. CSS cleans and sterilizes most of the nondisposable medical supplies used in the hospital. Over 2,000 different supplies and instruments are requested by and distributed to 50 areas in the Clinical Center complex. Bandages, needles, treatment trays, medical instruments, cardiac catheters, and operating room linen are just some of the items that go through a whole battery of sterilizing processes. Dishwashers, ultrasonic cleaning machines, steam and gas sterilizers, are all used in the fight against germs.

Helen Smith, member of the laminar flow crew, seals an item in plastic. All articles in the laminar flow rooms must be sterile.