the NIH Record

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U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

May 2, 1978
Vol. XXX, No. 9

NATIONAL INSTITUTES OF HEALTH

Dr. Jay Shapiro Named CC Associate Director For Education, Training

Dr. Jay R. Shapiro has been appointed associate director for Education and Training of the Clinical Center.

Dr. Shapiro, who has been director of Medical and Educational Affairs at the Greater Southeast Community Hospital in Washington, D.C., since 1975, will assist Dr. Mortimer B. Lipsett, CC Director, in designated administrative tasks.

Dr. Shapiro will be involved in the many aspects of teaching and training physicians at the CC. He will assist the Institutes in recruiting young physicians for the clinical associate program and medical students for the medical elective program.

He will also serve as the Clinical Center's liaison to students and faculty of the Nation's medical schools and to professional boards and societies.

In addition, Dr. Shapiro will help supervise the collaborative research programs conducted by investigators from the CC Departments and various Institutes and participate in the final review of research protocols.

His main research interests are

During his 3 years at the Greater Southeast Community Hospital, Dr. Shapiro developed programs in medical audit and continuing education for the National Capital Medical Foundation (PSRO).

in hereditary and metabolic bone diseases, particularly osteoporosis and "brittle-bone syndrome."

Dr. Shapiro received his B.S. de-

(See DR. SHAPIRO, Page 7)

Dr. Borer Wins European Society Prize For Cardiac Diagnostic Technique

Radionuclide cineangiography allows the heart to be viewed during and just after intense exercise. The patient is pedaling an exercise machine while a scintillation camera collects data for the computer-based movie of his heart.

Dr. Jeffrey S. Borer, of the National Heart, Lung, and Blood Institute's Cardiology Branch, recently received the Investigator's Award Prize of the European Society of Cardiology at the University of Frankfurt.

The Award, made in conjunction with the Society's Third Annual Symposium on Coronary Heart Disease, honored Dr. Borer's research which was presented in part at that meeting.

His presentation covered clinical studies employing exercise radionuclide cineangiography, a technique developed by Dr. Borer together with Dr. Stephen L. Bacharach and Michael V. Green, of the Clinical Center Nuclear Medicine Department, and colleagues in the Division of Computer Research and Technology.

A non-invasive diagnostic technique posing no hazard and causing very little discomfort to the patient, radionuclide cineangiography is more accurate and sensitive than the stress ECG for detecting coronary heart disease, even in asymptomatic patients.

It also permits quantitative assessment of abnormalities in ventricular performance resulting from any disease process, as well as permitting evaluation of the effects of therapeutic interventions.

The procedure begins with the injection into any convenient peripheral vein of human serum albumin labeled with technetium-99m, an isotope with a half-life of only about 6 hours.

Within minutes, the isotope becomes evenly distributed throughout the patient's blood. Then a scintillation camera placed over the patient's chest begins recording the radiation emitted from the left ventricle as the blood-borne tracer courses through it.

What the camera "sees" is the continuously changing shape of the ventricular cavity, as limned by the gamma emissions of the isotope, throughout each cardiac cycle.

But so small is the amount of isotope passing through the ventri-

(Continued on Page 4)

Dr. Davies Elected to NAS

Dr. David R. Davies, National Institute of Arthritis, Metabolism, and Digestive Diseases, was elected to the National Academy of Sciences on April 25.

Dr. Davies was honored for his distinguished achievements in biomedical science.

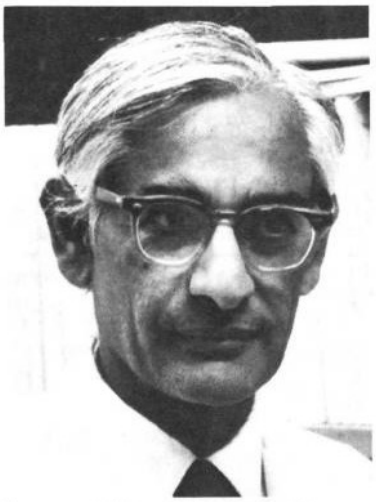
He is chief of the Section on Molecular Structure in NIAMDD's Laboratory of Molecular Biology.

Dr. Khorana Will Give NIH Lecture on May 10 On Synthesis of Gene

Dr. Har Gobind Khorana will deliver the NIH Lecture on Total Synthesis of a Biologically Functional Gene on Wednesday, May 10, at 8:15 p.m. in the Masur Auditorium.

Dr. Khorana is an Alfred P. Sloan Professor of Biology and Chemistry at the Massachusetts Institute of Technology, where he teaches no courses but pursues his research full-time with the aid of a dozen or so postdoctoral associates, most of whom are chemists, biochemists, and molecular biologists.

Dr. Khorana also serves as an Andrew D. White Professor-at-



Between 1960 and 1970, Dr. Khorana did his historic work on the chemical synthesis of complex polynucleotides containing known sequences of nucleotide bases. He helped to clarify major aspects of the genetic code.

Large at Cornell University in Ithaca.

A native of India, Dr. Khorana received his B.Sc. Honors from Punjab University in 1945 and his Ph.D. in organic chemistry from the University of Liverpool in 1948.

He is best known for winning the 1968 Nobel Prize in Physiology or Medicine, along with two other U.S. pioneers in the study of the genetic code, Dr. Marshall W. Nirenberg, chief of the Laboratory of Bio-

(See DR. KHORANA, Page 8)

the NIH Record

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1st NIH Photo Contest Will Be Held on May 8

Next Monday, May 8, is the day—the NIH Photographic Competition. As many as four entries in each of the three categories—slides, color prints, and black and white prints—may be submitted by each NIH employee, member of the NIH Camera Club or R&W, and their immediate families.

There is an entry fee of $1.50 per category. For complete rules, see *the NIH Record*, April 18 issue, page 3, and/or contact the R&W Office, Bldg. 31, Room 1A18 (496-4600), or call Ken Edwards (496-6750) or Gail Planck (881-1378).

Entries may be submitted by the photographer/entrant between noon and 6 p.m. at any of three locations: Bldg. 31, Conference Room 4; Westwood Bldg., Room 205; and Landow Bldg., Room 5A-04.

Judging—open to the public—will begin at 7:30 p.m. in Bldg. 31, Conference Room 4. Photographs may be picked up immediately after the judging or the following day in the location where they were submitted. Photos entered in Bldg. 31 will be available in Conference Room 6 (6th floor, C Wing) between 12:30 and 6 p.m.

You Can Help Others: Give Blood—It's a Ball

Do you feel people putting the squeeze on you?

Here's your chance to get even. The Blood Bank is even more on the ball than usual. In fact, it has 500 balls, tennis-size Nerf balls, that is. These balls will be used to squeeze if you come in to donate blood (500 cc) during the month of May, and are then yours to keep and squeeze to your heart's content.

Call for Appointment

So, get up your Nerf, and come to the Blood Bank and donate. Put the squeeze on us and help a patient bounce back to health. Call 496-1048 for an appointment.

Outdoor Club on May 16: Growth Thru Adventure

Few people associate hiking, backpacking, rock climbing, and other outdoor activities with self-awareness, compassion, responsibility, and perception—qualities much sought in today's world.

On May 16 at noon in Wilson Hall the Outdoor Activities Club is sponsoring a slide show on how Personal Growth Through Safe Adventure (in an outdoor setting) can help one gain a deeper understanding and appreciation of one's self, colleagues, and the environment.

Talks on Philosophy Practice

Jim Northup of Discovery, Inc., a non-profit education institution, will talk on the means of putting this philosophy of self-discovery into practice.

This lecture is intended to be an introduction to a series of "Discovery" events planned by the R&W-sponsored Outdoor Activities Club. Information about the events will be available at the lecture.

Toastmasters Meet Friday Noon; Guests Welcome

Mr. Wuhrman (l) and James D. Pomeroy (r), president of the NIH Toastmasters Club, welcome new members (l to r): Ivadale Ford, Mimsie G. Kennedy, Joyce Lamb, Lou Jean Jackson, and Dr. Srinivasabhatt Aswanikumar to the NIH group, which meets every Friday at noon in Bldg. 31, Room B2-C05.

Jerry Gordon (l) of DRR received his Able Toastmaster Award from Robert Wuhrman (r), DTM, Lt. Governor of District 36 for the Western Division of Toastmasters International.

M.C. Hotline Strives To Meet Needs of All On a 24-Hour Basis

The Montgomery County Hotline, 949-6603, the Metropolitan area's first 24-hour crisis intervention telephone service, has handled well over a quarter of a million calls since its establishment 8 years ago.

A number of NIH employees are serving as volunteer telephone aides in their spare time.

Has Expanded Services

Started in 1970 as a teen-age crisis-intervention program, Hotline has expanded its service to meet the needs of all age groups, providing information, referral, and informal counseling services.

Hotline handles calls relating to a variety of concerns including drug information, child abuse, family and marital problems, sexuality, suicide, and information about community resources.

All calls are confidential and remain anonymous.

For more information about Hotline and its training for volunteer phone aides, call the Mental Health Association, 949-1255, weekdays, 9 a.m. to 4:30 p.m.

NIH Singles Club Shifts Meeting Day, Locale; Schedules Dinner, Dance

The Singles Club has changed its plans . . . Friday evening, May 12, members and guests will gather for a buy-your-own dinner at Frankie Condon's Supper Club, 254 North Washington St., (next to the Rockville Plaza Motel) Rockville. Entertainment and dance music, featuring a three-piece combo, begins at 9:30 p.m. The cookout on that date has been cancelled.

Also, the Singles get-togethers after work have been changed from Friday afternoons in the Clinical Center cafeteria to Tuesdays in the Recreation Room in the basement of Bldg. 20. Light refreshments are available.

On Tuesday, May 23, a picnic is planned at Carderock Park. Contact Susan Skuntz at 496-2013 if you are planning to attend so that sufficient food may be ordered. Checks made out to the NIH Singles Club may be sent to her in Bldg. 37, Room 2A19—$2 for members, $3 for guests.

A dance is planned on Friday, June 2. Call Pete Eddy, 496-2146, if you are interested, as a minimum of 40 reservations are necessary.

The continued participation of club members is necessary for these activities to be successful. Please plan to attend. Guests are always welcome.

NIH Duplicate Bridge Club Meets Wed. Nights in Bldg. 1

Donna Huber, NIGMS, and her partner, George Dudley, were top scorers in a recent NIH Duplicate Bridge Club tournament.

The Bridge Club, sponsored by the NIH Recreation & Welfare Association, meets weekly on Wednesdays at 7:30 p.m. in the Bldg. 1 cafeteria.

Entry fee is $1.50.

Health's Angels Sponsor Beginner's Series, Make Plans for Relay in May

Form your teams!

Plan now for the Institute Relay on Wednesday, May 24. Numerous teams representing B/I/D's, programs, labs, and offices are expected to be competing in this event. Each relay team will be comprised of five persons, and each person will run a half-mile.

All teams must be registered by Friday, May 19. Mail a list of team members' names to Dr. Peter Pentchev, Bldg. 10, Room 3D–14. Also contact Dr. Pentchev if you are interested in officiating at the event. For safety reasons, two heats may be necessary to accommodate the number of teams registered.

All participants will receive a ribbon.

On Wednesday, May 3, following the Mile Series Runs, a brief organizational meeting concerning the Relay will be held at about 6 p.m. in front of Bldg. 1.

The Beginner's 1-Mile and 3-Mile Series Runs continue on Wednesday afternoons, starting at 5:30 p.m. in front of Bldg. 1. All joggers, regardless of ability, are welcome.

To join the Health's Angels NIH Jogging Club, write to Pat Carmichael, Bldg. 1, Room 118.

13 Run Boston Marathon

In near perfect weather, 13 intrepid NIH'ers ran the Boston Marathon on April 17.

The runners and their times (hours: minutes) for the 26-mile, 385-yard distance are:

Dr. James Reinertsen	2:47
Dr. Charles Schulz	2:48
Dr. Samuel H. Wilson	2:54
Dr. Michael Beaven	3:09
Gil Hill	3:11
Allen Lewis	3:12
Dr. Harvey Klein	3:18
Dr. George Martin	3:18
Dr. Marc Lippman	3:22
Dr. Richard Davey	3:26
Dr. Samuel Berkman	3:40
Dr. Robert Winslow	3:42
Dr. Ronald Crystal	3:44

CC Nurses To Hold Annual Research Symposium May 17

The Clinical Center Nursing Department will hold its Fourth Annual Research Symposium on Wednesday, May 17, at 7:30 p.m. in the Masur Auditorium.

The guest speaker, Dr. Ida M. Martinson of the University of Minnesota, will discuss Home Care: Preference or Priority?

A panel discussion will follow with panelists including Doris Marshall, Ann McNemar, Laura Ryan, and Susan Steinberg, all nurses at the Clinical Center.

CC and area nurses are invited to attend the symposium and the reception which will be held immediately after the symposium.

Roll Up Your Sleeve—All Employees Benefit From Blood Pressure Screening

Get ready to roll up your sleeve—the NIH Employee Blood Pressure Program is starting.

Dr. Thomas E. Malone, NIH Deputy Director, had his blood pressure checked by Dr. Barbara Wasserman, assistant director of the Occupational Medical Service, to signal the beginning of the building-by-building blood pressure screening.

"This is a proven, preventive health check," said Dr. Malone, "and I urge every person to take advantage of this quick and easy test during screening. You owe it to yourself."

Dr. Malone's blood pressure was within the normal range. However, chances are one in six that you have hypertension.

"It's easy and really doesn't hurt a bit," says Dr. Malone as Dr. Wasserman checks his blood pressure.

If you have several high readings during screening, OMS will refer you to your physician or help locate a doctor if you do not have one.

In cooperation with the physician, the OMS health unit will monitor your blood pressure. An OMS nurse will also talk with you about hypertension: what it is, what it means to you and how it can be controlled.

Plan to participate in the screening even if you are already on high blood pressure medication so you can see if your blood pressure is adequately controlled. OMS can still offer you free blood pressure checks and individualized counseling.

Like Dr. Malone, all employees will receive a card with their blood pressure reading and recommendations for any further health check-ups.

During the first week in May, nurses will be screening employees at the Federal Bldg. In the following weeks they will move on to the Blair, Landow, and Westwood Buildings, and nearby Maryland and Virginia facilities.

Specific screening dates, times, and rooms will be listed on flyers and posters. Look for the smiling face.

Savings Bond Campaign Kick-Off Meeting Held; Coordinators Are Named

The initial meeting of coordinators and canvassers for the 1978 U.S. Savings Bond Campaign at NIH was held April 25 in the Masur Auditorium.

Steven Groban, chief of the CC Outpatient Department, who is campaign coordinator, opened the meeting, and Paul Daisey, area manager for the Savings Bond Division for Montgomery County, also spoke.

This year, the NIH campaign—with CC Director Dr. Mortimer Lipsett as chairman and CC executive officer Howard Kettl as vice chairman—began yesterday (May 1) and continues until June 2.

The NIH Recreation & Welfare Association has donated three prizes: a $50 bond and two $25 bonds, which will be raffled off among those individuals who start a bond allotment or increase an existing one.

Contact Coordinators

For information concerning the Savings Bond Campaign, contact your B/I/D coordinator:

OD	Leon Schwartz	496–4466
	Mary Virts (Asst.)	496–2511
DRR	Jerry Gordon	496–5545
NIA	Dorothy Ragsdale	496–5345
NLM	Robert Mehnert	496–6308
DRG	Errett Straley	496–7954
DRS	Anna Dougherty	496–4541
NIGMS	Georgia Norton	496–7008
NIAID	Ed Bowie	496–7151
NICHD	John Smart	496–1043
NEI	Joel Sugarman	496–5248
FIC	Rita Levitan	496–4625
NHLBI	Jean Stein	496–3533
CC	Lanny Newman	496–2563
DCRT	Doren Vest	496–4647
NIDR	Frances Pettinato	496–6621
NINCDS	Robert Knickerbocker	496–2294
NCI	Philip Amoruso	496–2775
NIAMDD	Lois George	496–5765

Mr. Daisey addressed the more than 100 canvassers and coordinators at the kick-off of the Savings Bond Campaign, held in Masur Auditorium on April 25.

Next Science Writers Seminar Will Feature Research in Dermatology

The next NIH Science Writers Seminar will feature three NIH scientists discussing Current Research in Dermatology on Wednesday, May 17, from 2:30 to 4:30 p.m. in Bldg. 31A, Conference Room 4.

First on the program is Dr. George R. Martin, chief of the Laboratory of Developmental Biology and Anomalies, NIDR, who will speak about The Role of Collagen in Determining Tissue Form and Function.

Next, The Role of DNA Repair Processes in Preventing Cancer and Premature Death of Neurons in Humans: Evidence from Studies of Xeroderma Pigmentosum will be covered by Dr. Jay H. Robbins of the Dermatology Branch, NCI.

Dr. Stephen I. Katz, acting chief of NCI's Dermatology Branch, will describe Immunologic Aspects of Skin Diseases with Special Emphasis on Blistering Skin Diseases.

For information, call Jane Collins, seminar coordinator, 496-1766.

A limited number of seats will be available for non-science writers.

Employees: Dial 496-4608, Hear Telephone Recording

NIH employees are invited to dial 496-4608 to hear personnel-related recordings offered by the Division of Personnel Management.

The telephone tapes may be heard 24 hours a day.

Designation of Beneficiary—May 1-5

The Privacy Act—May 8-12

Within-Grade Increases—May 15-19

The Classification of Jobs—May 22-26

Employee Appraisal and Performance Rating—May 29-June 2

Freedom of Information Act—June 5-9

The Employee Assistance Program—June 12-16

Your Leave Benefits—June 19-23

AWOL and LWOP—What's the Difference—June 26-30

Nat'l Commission Report Recommends Protection For Mentally Infirm

A report and recommendations on *Research With Those Institutionalized as Mentally Infirm* have been transmitted to HEW Secretary Joseph A. Califano, Jr., by the National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research.

Published in the *Federal Register* on March 17, the report stresses the need to protect the institutionalized mentally infirm as vulnerable persons, and to protect their right to make decisions for themselves to the extent they are able to do so.

Knowledge Is Necessary

The Commission noted that the medical, psychological, and social protection of mentally infirm people depends upon society's knowledge of their disabilities and their treatment and care. This knowledge is critically dependent upon research, the Commission said.

The Commission recommended that institutionalized mentally infirm persons not be asked to participate in research unless it has first been established that the research will not interfere with their care.

Also, it was recommended that mentally infirm persons who are not capable of giving consent on their own behalf must not be involved in research unless the research is relevant to their own condition.

Direct Benefit Is Requirement

Finally, no mentally infirm persons should be involved in research over their objection unless the research is intended to directly benefit them or is specifically authorized by a court.

In addition, the Commission recommended that review boards located at institutions conducting research with the mentally infirm be required to establish the safety of all such research, the competence of the researcher, and the adequacy of the procedures to protect patient privacy.

Under no circumstances is any minimal risk research to be carried out without the consent of the patient or, if the patient is not legally competent to consent, the assent of the patient and the consent of a legal guardian, the Commission said.

Court May Have Jurisdiction

If the patient is legally incompetent and refuses to assent to involvement in research considered to be potentially beneficial, the institution may seek authorization of a court of competent jurisdiction.

The Commission would also require that doctors show that there would be benefits to the subject if the risks of the research were appreciably above the minimum.

Actual performance of any such research would require approval of a national ethical advisory board and Secretary Califano, in addition to institutional review board approval.

Secretary Califano has 6 months after publication to review the Commission's recommendations and decide whether or not to propose regulations with respect to them.

Copies of the report are available from the Office for Protection from Research Risks, NIH, Bethesda, Md. 20014, (301) 496-7005.

DR. BORER WINS EUROPEAN SOCIETY PRIZE

(Continued from Page 1)

cle during any single cardiac cycle and so faint is the radiation reaching the scintillation camera that the visual display of a representative cardiac cycle is built up from scintillation data accumulated over

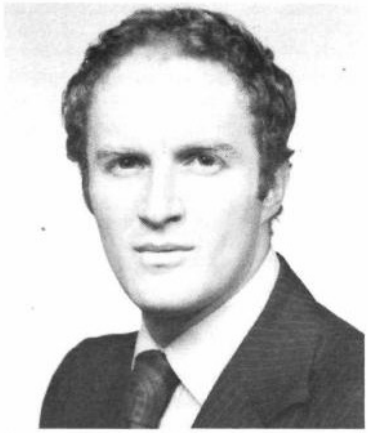
Records Continuously

200 or more successive cycles.

This is done by a computer. The computer continuously records the patient's electrocardiogram and is cued by the R wave that signals the beginning of each ventricular contraction.

On this signal, and in a series of 10 millisecond increments—rather like a motion picture camera shooting at 100 frames per second—the computer collects, organizes, and converts into images the scintillation data recorded during the subsequent cardiac cycle.

The imaging data from this cycle is also superimposed, or overlaid on that stored from previous cycles. The images of left ventricular contraction, relaxation, and refilling are gradually intensified as this overlay process is repeated with each heartbeat.



In 1974-75 Dr. Borer—a Senior Fulbright-Hays Scholar and Glorney-Raisbeck Fellow in the Medical Sciences—spent a year in England as a visiting fellow in the Cardiac Department of Guy's Hospital, University of London.

The intensified images, generated over many cardiac cycles and combined into a single representative cycle, are displayed on a video tube in an endless-loop format representing the continuously beating heart.

The images of the ventricular cavity permit detailed analysis of ventricular wall motion throughout the cardiac cycle and localization of regions of the ventricle that are contracting poorly because of blood deprivation or scarring.

Repeat determinations can be done as often as desired over a 6-hour period without further injection of isotope and without loss of sensitivity or accuracy.

Image Data Can Be Used

The image data can be used to compute left ventricular ejection fraction—the proportion of blood in the ventricle at the end of filling that is expelled during the subsequent contraction—as well as other useful indices of ventricular performance.

Because radionuclide cineangiography yields visually interpretable movies in less than 2 minutes, it can be carried out while the patient is performing strenuous exercise on a bicycle ergometer.

This is of primary importance because left ventricular performance is often normal or near normal at rest even in patients with clinically severe heart disease. It is only when the heart is subjected to stress that abnormalities become apparent.

Studies performed in more than 1,000 patients at NIH indicate that information obtained by radionuclide cineangiography during exercise is useful in the evaluation of patients with any form of heart disease.

Applications of Technique

Among uses to which this technique is being put by Dr. Borer and other scientists of the Cardiology Branch and Nuclear Medicine Department are: detection of coronary heart disease in asymptomatic patients; evaluation of drugs or other therapeutic interventions against conditions adversely affecting ventricular performance; and preoperative and postoperative evaluation of ventricular performance in patients undergoing cardiac surgical procedures.

A native of Deland, Fla., Dr. Borer received his B.A. degree from Harvard in 1965 and his M.D. from Cornell in 1969.

Was Clinical Associate

After completing his internship and residency at Massachusetts General Hospital, he joined NHLBI in 1971 as a Clinical Associate in its Cardiology Branch.

After a year in England, he returned in 1975 to the Cardiology Branch as a senior investigator, and has headed its nuclear cardiology program since 1976.

Public Forum Considers Strategy for Planning Neurological Research

A public forum on neurological health problems will be held May 11-12 at the Dulles Marriott Inn in Chantilly, Va.

Sponsored by the National Institute of Neurological and Communicative Disorders and Stroke, the forum will air views and ideas to be considered in the formulation of a 10-year research strategy for the neurological and communicative sciences.

Seven panels consisting of clinicians and research scientists will welcome input from patients, representatives of voluntary health organizations, health care professionals, and all others concerned.

The forum will be the first in a series of meetings from which will emerge a national plan to guide Institute officials, the Administration, Congress, and others concerned with practical information and guidance on how best to use research funds and resources.

The twentieth century will be remembered chiefly, not as an age of political conflicts and technical inventions, but as an age in which human society dared to think of the health of the whole human race as a practical objective.—*Arnold Toynbee*

Afraid To Assert Yourself?
Call 496-2738
Employee Assistance Program

Offspring of Childhood Cancer Survivors Appear Healthy in Majority of Cases

The majority of cancer patients who have survived childhood cancers appear able to bear healthy offspring, according to Dr. Frederick P. Li of the National Cancer Institute Clinical Studies Section.

Dr. Li presented the results of a study of 113 such patients—half of whom have survived childhood cancers by at least 20 years—at the 29th Annual Meeting of the American Association for Cancer Research in Washington, D.C., on April 5.

The study was conducted by Drs. Li and Norman Jaffe of the Sidney Farber Cancer Institute in Boston, Mass., and Drs. Frederick F. Holmes and Grace E. Holmes of the University of Kansas Medical Center in Kansas City.

Patients on Tumor Registries

The scientists identified the patients from the tumor registries of the Sidney Farber Cancer Institute and the University of Kansas Medical Center. At least half of the patients were diagnosed with cancer before age 10; all were diagnosed before age 18.

Current ages of the women in the study ranged from 18 to 55; the men ranged in age from 18 to 45 years. The patients had completed treatments for cancers such as Hodgkin's disease and non-Hodgkin's lymphoma, bone and brain cancers, cancers of soft tissue, and neuroblastoma.

Of 237 recorded pregnancies in the 62 women patients and the spouses of 51 male patients, 35 ended by abortion. The patients thus far have produced 198 live infants, including 70 children who have passed 10 years of age.

More abortions occurred among female patients than among the wives of male patients, but the numbers were not significantly larger than in the general population.

Among the reasons given for induced abortions were concern that retinoblastoma, a hereditary cancer of the eye, might occur in the fetus of one female patient who had suffered this cancer as a child; difficulty in carrying her fetus by a woman whose hip bones had been damaged by childhood bone cancer; and concern among several patients that genetic defects might occur in their offspring.

The scientists in Boston and Kansas City compared the frequency of birth defects in the 198 live births to 296 first cousins of the infants. They found a low proportion of defects in both groups, and found that defects that did occur usually were not severe.

The life expectancy of these patients' offspring paralleled that of children in the general population during their first 10 years of life.

Two Cancers Found

Only two cancers have been found thus far in the offspring. One retinoblastoma developed in the daughter of a male patient who had survived the disease himself as a child, and the daughter of a former female patient who had survived a brain cancer developed leukemia at age 15.

Genetic influences may be responsible for both cancers, Dr. Li indicated. For example, brain cancers and leukemias have been found as one pattern of familial cancer.

He urged that counseling of former cancer patients concerning the likelihood of their bearing normal children be individualized to take into account the special circumstances of each case.

Dr. Joseph E. Rall, director of the NIAMDD Intramural Research Program, and Mrs. Bunim admire a portrait of her late husband Dr. Joseph J. Bunim, former clinical director of the Institute. The picture will hang in the new NIAMDD Conference Room on the 9th floor of the Clinical Center, which was recently dedicated as the Bunim Room.

Dr. Frommer Is Named Deputy Director, NHLBI

Dr. Peter L. Frommer has been appointed deputy director of the National Heart, Lung, and Blood Institute.

In his new post, Dr. Frommer will assist Dr. Robert I. Levy, Institute Director, in the planning, direction, coordination, and evaluation of NHLBI programs.

He will also make recommendations to the Director concerning relative emphasis among major program activities and assist in the establishment of internal policy governing Institute operations and in maintaining surveillance over them.

Dr. Frommer and his family came to the United States from Budapest, Hungary, in 1941, and became citizens in 1947.

Dr. Frommer earned a B.S. degree in electrical engineering at the University of Cincinnati in 1954. His senior thesis was selected as the National Student Prize Paper by the American Institute of Electrical Engineers.

He subsequently entered Harvard Medical School, where he received his M.D. in 1958. While there, he worked summers as a junior engineer with the Sanborn Company (now part of Hewlett-Packard, Inc.) in Waltham, Mass.

After completing his internship at the University of Cincinnati Medical Center in 1959, Dr. Frommer joined NHLBI as a staff associate in its Laboratory of Technical Development.

In 1961, he returned to the University of Cincinnati Medical Center for his residency in internal medicine, then rejoined the Institute as a senior investigator and attending physician in the Cardiology Branch.

His research centered on techniques for artificially pacing the heart and on indicator-dilution techniques for evaluating cardiac function and for the diagnosis of congenital or acquired heart disorders.

In 1966, Dr. Frommer was appointed assistant chief of the Institute's newly established Myocardial Infarction Branch. This program involved the support of targeted clinical and fundamental research on acute heart attack and other forms of coronary heart disease.

In 1972, Dr. Frommer became associate director for cardiology of the Division of Heart and Vascular Diseases, where he was responsible for the Institute's targeted and regular grant programs in cardiac diseases, in devices and technology, and in fundamental cardiac functions.

Dr. Frommer's awards include the Distinguished Alumnus Award of the University of Cincinnati College of Engineering in 1969 and the Public Health Service Commendation Medal Award in 1976.

Mary Rebecca Speicher Dies; Was Retired NCI Employee

Mary Rebecca Speicher, a retired employee of the National Cancer Institute, died of pneumonia in a Hagerstown hospital on April 21.

She came to NCI in 1946 and was in charge of answering public and congressional inquiries in the information office at the time of her retirement in 1971.

NIH Visiting Scientists Program Participants

3/20—Dr. Parekkat Mohanakrishna, India, Laboratory of Environmental Biophysics. Sponsor: Dr. Colin Chignell, NIEHS, Research Triangle Park, N.C.

3/30—Dr. Mitsuo Tabata, Japan, Laboratory of Biophysics. Sponsor: Dr. Daniel Alkon, NINCDS, Marine Biological Lab, Woods Hole, Mass.

4/6—Dr. Marguerite Foidart-Dessale, Belgium, Medical Neurology Branch. Sponsor: Dr. W. King Engel, NINCDS, Bg. 10, Rm. 10D18.

4/9—Dr. Giulio Magni, Italy, Laboratory of Biochemistry. Sponsor: Dr. Earl Stadtman, NHLBI, Bg. 3, Rm. 222.

4/9—Miss Yaffa Reuveni, Israel, Laboratory of Biology of Viruses. Sponsor: Dr. Norman P. Salzman, NIAID, Bg. 5, Rm. 324.

4/9—Dr. Gerd Reznik, Germany, Carcinogenesis Testing Program. Sponsor: Dr. Richard Griesemer, NCI, Landow Bg., Rm. A322.

4/10—Dr. Giandomenico Basile, Italy, Laboratory of Chemical Biology. Sponsor: Dr. Hiroshi Taniuchi, NIAMDD, Bg. 10, Rm. 9N306.

4/12—Dr. Geoffrey Naylor, Australia, Laboratory of Physical Biology. Sponsor: Dr. Richard Podolsky, NIAMDD, Bg. 6, Rm. 110.

4/17—Dr. Malcom Charles Boyd, U.K., Pulmonary Branch. Sponsor: Dr. Ronald Crystal, NHLBI, Bg. 10, Rm. 6D06.

4/17—Dr. Junya Nagayama, Japan, Environmental Biology and Chemistry Branch. Sponsor: Dr. Joyce Goldstein, NIEHS, Research Triangle Park, N.C.

Asian-American Cultural Program May 11, 12: Art, Dance, Music, and Film

An Asian-American Cultural Program featuring dance, music, art, and ceremonies of China, India, Japan, Korea, Laos, the Philippines, Thailand, and Vietnam will be held in the Clinical Center Masur Auditorium on Thursday, May 11, and Friday, May 12. All NIH personnel, their families and friends are welcome to attend any of the programs.

NIH Director Dr. Donald S. Fredrickson will open the 2-day program on Thursday noon, and Dr. Philip S. Chen, Jr., Assistant Director for Intramural Affairs, NIH, will serve as master of ceremonies.

Discusses Jade

Paul E. Desautels, curator for mineralogy at the Smithsonian Institution—a jade expert—will speak briefly on The Jade Problem during the Thursday noon program. There will also be a performance of Japanese dancing and an exhibit and demonstration of Chinese landscape painting by Wu Yeh Dzing-Wan.

A Thai wedding ceremony, presented by the Royal Thai Embassy, will open the Friday noon program. Korean tenor Kwang Chung, from the Metropolitan Opera, will sing a Korean folk song and a Western operatic aria.

Film Shown

A film will also be shown—To a New Land, by Noel Izon, prepared as part of a television series, "Pacific Bridges," highlights the early arrivals of some Asian groups in the U.S.

Sing Opera Selections

Dr. Devi Vembu of the National Cancer Institute will be mistress of ceremonies at the Friday noon program.

Friday evening's 2½-hour program, beginning at 7:30 p.m., will include Korean soprano Jung Ae Kim, who will sing selections from Puccini's opera Madame Butterfly, as well as a duet with Kwang Chung.

The annual Tet ceremony of Vietnam and the Ancient Baci ceremony of Laos will be performed.

A string trio—Dr. Lo-I Yin and his two sons—will perform selections by Haydn and Beethoven, and David Cheung assisted by Dr. Robert Seid will demonstrate Chinese paper sculpture.

Kathakali, a classical dance of India, will be performed.

Play Koto Music

A group of Japanese Koto players will include Michiko Cooper of FIC, and Dr. Patricia Tazuko Roberts (a retired PHS officer). Dr. Charles Land of NCI will accompany the group on the shakuhachi (traditional Japanese bamboo flute).

Huly Bray, special projects officer, will serve as master of ceremonies at the Friday evening program.

Paintings by Alfred Laoang of the Medical Arts and Photography Branch, DRS, will also be on exhibit in the entrance corridor of the Clinical Center.

The Public Health Service is also having a 2-day Asian Awareness Program May 3–4 from 11:30 a.m. to 1 p.m. in the Parklawn Bldg., Conference Room E and F.

Dr. Harold L. Stewart Receives Gold Headed Cane Award From AAP

A real gold headed cane was presented to Dr. Stewart (r) by Dr. Kenneth M. Endicott, former NCI Director and now AAP executive director, whose friendship with Dr. Stewart dates back to pre-NCI days on the Bethesda campus.

Dr. Harold L. Stewart, an NIH Scientist-Emeritus, on April 13 received the Gold Headed Cane Award of the American Association of Pathologists that honors "a physician who represents the highest ideals in medicine and pathology."

Dr. Stewart—a noted experimental pathologist whose research has led to recognition of the importance of geographic pathology to better understanding of the causes of cancer—served as chief of the Laboratory of Pathology from 1939 until 1969.

From 1954 to 1969 he was also chief of the Laboratory of Pathologic Anatomy at the Clinical Center. During those years he was responsible for training and development of more than 100 pathologists for research and academic careers.

Develops Tumor Registry

Although officially retired, Dr. Stewart, at 78, is an active consultant to the Director of NCI, where he is developing a Registry of Experimental Cancers that contains more than 300,000 slides of nearly every significant neoplasm created in laboratories all over the world.

Workshop Will Advise Counsellors on Fed'l Career Opportunities

A workshop to assist high school and college counsellors in advising their students on Federal Government career opportunities will be held Monday, May 15, here at NIH.

It is sponsored jointly by the National Institute of Neurological and Communicative Disorders and Stroke's Affirmative Action Program and by the Division of Personnel Management, NIH.

The workshop is intended to acquaint counsellors with the realties of Federal service employment, including job hunting after placement on the Civil Service Register; Civil Service ratings; types of jobs and salaries which realistically might be expected; and special programs such as the summer, stay-in-school, and cooperative education programs.

Conference To Explore Models for Research On Cystic Fibrosis

A conference on Model Systems for the Study of Cystic Fibrosis will be held May 25–26 at Heart House of the American College of Cardiology.

Cosponsored by the National Institute of Arthritis, Metabolism, and Digestive Diseases and the Cystic Fibrosis Foundation, the meeting will explore the state-of-the-art in the use of model systems in CF research.

Also Discusses In Vitro Systems

While the primary emphasis of the conference will be on animal models, other *in vitro* systems including isolated cells, organ culture, and embryonic tissue will also be examined.

Participants will include active investigators in cystic fibrosis as well as specialists in techniques for animal model development.

Interested NIH scientific staff members are invited. Because of seating limitations, contact Dr. Robert J. Beall, NIAMDD, 496-7645, for details and registration.

Conf. on Self-Evaluation In Health Areas Planned

Self-Evaluation Technology in the Health Field is the topic of a conference to be held June 14–16 at the U.S. Naval Postgraduate School in Monterey, Calif.

Sponsored by the Public Health Service of DHEW Region IX, San Francisco, the conference will bring together administrators, evaluators, and members of the health professions who develop and apply evaluation technology to the health care field.

No fees will be charged for registration or attendance.

Emphasize Delivery of Services

Self-evaluation by Federally-supported grantees engaged in direct delivery of health services will be the major focus of the program, which will include group discussions and panel sessions.

The conference goals are: to examine the current self-evaluation for health care programs; to share practical tools and experience among evaluators and those utilizing the results of evaluations; and to identify future directions of self-evaluation methodology in health.

Principal areas of concern are: ambulatory health care; mental health; emergency medical services; health planning, prevention/health education; in-patient or long-term care.

Special arrangements for accommodations may be made through May 18. For further information and applications, contact Dr. Luigi Lucaccini, Public Health Service, Region IX, 50 U.S. Plaza, San Francisco, Calif. 94102 (415-556-8387).

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DR. SHAPIRO

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gree in 1953 from Franklin and Marshall College and his M.D. degree from Boston University School of Medicine in 1957.

An instructor of medicine at the Albert Einstein College of Medicine in 1960–61, he was a clinical associate with the National Institute of Arthritis and Metabolic Diseases from 1962 to 1964, when he became an instructor of medicine at Georgetown University and entered private practice in internal medicine and endocrinology.

Directed Medical Education

From 1969 through 1971, Dr. Shapiro was director of medical education and chairman of the section of endocrinology at the Washington Hospital Center.

He joined the staff of George Washington University in 1970, and became an associate professor of medicine in 1973. At GWU he was a Robert Wood Johnson Clinical Scholar.

Quality Assurance To Be AALAS Seminar Theme

The National Capital Area Branch of the American Association for Laboratory Animal Science will hold its eighth annual seminar Sept. 13-14 at the Hunt Valley Inn, (Cockeysville), Md.

This year's theme will be Quality Assurance in Laboratory Animal Research and Testing.

In addition to a repeat of last year's audiotutorials, there will be a placement service, workshops, technique papers, and athletic tournaments.

For information write to seminar chairman Arley J. Mead, Vice President and General Manager, Hazleton Research Animals, Inc., 9200 Leesburg Turnpike, Vienna, Va. 22180, or call (703) 893-5400, Ext. 266/267.

Professor Eakin Recreates 19th Century Dr. Beaumont in Drama-Lecture May 3

The real Dr. Eakin (l), and in costume and makeup as Dr. Beaumont.

The Beaumont Lecture, created by Professor Emeritus Richard M. Eakin of the University of California, Berkeley, for his dramatic teaching series, Great Scientists Speak Again, will be presented in the Masur Auditorium on Wednesday, May 3, from 1:30 to 3 p.m.

The presentation, sponsored by the Minority Access to Research Careers (MARC) Program of the National Institute of General Medical Sciences, will be open to the public without charge.

Dr. Eakin, the recipient of a MARC Visiting Scientist Award, is currently visiting professor of biology at Tougaloo College, Miss.

Studied Stomach Function

In The Beaumont Lecture, Dr. Eakin impersonates the American frontier physician and scientist, Dr. William Beaumont, whose clinical observations of gastric function early in the 19th century while an Army surgeon are legendary in the annals of medicine and physiology.

Dr. Beaumont later held the chair of surgery for the then newly formed St. Louis University School of Medicine, and it is in this role that he "speaks again" to his students through Dr. Eakin.

Dr. Beaumont's historic studies were conducted nearly a century ago in collaboration with a young patient, Alexis St. Martin, a French-Canadian trapper whose left rib basket and stomach were torn open by gunshot.

Although St. Martin survived and led an active life for years, his stomach would not close entirely in healing, allowing Dr. Beaumont an unprecedented opportunity to observe and meticulously record over a period the inner functions of the human stomach.

Many notions were then held about how the stomach functioned but almost nothing was known factually.

Tested Peers' Ideas

In Dr. Eakin's lecture, for example, Dr. Beaumont recounts a peer suggestion "that I test the widely held opinion that the stomach digests foods in order of kind. All of one kind first, then all of a second, and so on."

Following intriguing discourse by Dr. Beaumont on his experiments, their rationale and conclusions, author-actor-teacher Dr. Eakin has the lecturer close elegantly in reference to the intellectual and self-satisfying values of scientific endeavor, to wit:

"Enough of my conclusions. Now I am fully aware of the importance of the subject of gastric digestion, and I am willing to risk the censure of neglect of critics if I may be permitted to cast my mite into the treasury of knowledge and to be the means, either directly or indirectly, of subserving the cause of truth and improving the condition of suffering humanity.

"I have submitted here a body of facts that cannot be invalidated. Although my opinions may be doubted, denied, or approved, the facts are incontrovertible.

"Truth, like beauty, is most adorned when unadorned, and in prosecuting these experiments and inquiries I believe that I have been guided by its light."

For The Beaumont Lecture, NIGMS has invited college science students and faculty from throughout the NIH area to attend.

In creating his lectures, Dr. Eakin has sought innovatively to counter the inattention that some students frequently pay to routine measures for instruction and to overcome the boredom that others evince at what they consider dull and old patterns of lectureship.

Although he has had no schooling in dramatic art and relies on what friends say is a considerable "ham" in his nature, Dr. Eakin's impersonations have been eminently successful, judging by acclaim from his students and worldwide publicity in such publictions as *Life* magazine, the *International Herald Tribune*, and *Der Spiegel*.

Due to such publicity, Dr. Eakin receives each year from throughout the country many more invitations to lecture than he is able to accept.

However, four of the impersonations have been placed on film and can be obtained by interested users from the Media Center of the University of California, Berkeley.

The text of the lectures and illustrations also have been published in book form by the University of California Press and can likewise be obtained from the Berkeley Media Center.

Seminar Is Held in Calif. On Extramural Programs

A seminar on Administration of NIH Extramural Programs was conducted at Stanford University and University of California, Los Angeles on March 13-14 and March 16-17, respectively.

At the two locales, Steven C. Bernard, deputy director of the Division of Contracts and Grants, and a team of NIH administrators addressed more than 425 representatives from approximately 30 grantee institutions.

The NIH panelists covered topics including: NIH Extramural Trend Study; Cost-Sharing; Administrative and Reporting Requirements of Recombinant DNA; Administrative and Reporting Requirements Related to Grants Involving Human Subjects; Animal Costs; Indirect Costs; NIH's Appeal Processes; Time and Effort Reporting.

NIH participants included: Helen Schroeder, assistant policy and procedures officer, OERT; Solomon Eskenazi, chief, Statistics and Analysis Branch, DRG; Donald Clark, chief, Office of Grants and Contracts, NICHD; Linden Neff, grants management officer, NIAMDD; and Anna Marie Perrell, grants management officer, NEI.

Also, Albert Cleveland, chief, Federal Assistance Accounting Branch, DFM; James Pike, chief, Grants Operations Branch, NHLBI; Richard Powers, chief, Financial Advisory Services Branch, DCG; and Joan Porter, special assistant to the Director of DRG, as well as six additional NIH and one NIMH grants management representatives.

Dr. Hajime Nawata (r) of NCI is one of the thousands of NIH'ers who have found parking re-registration very easy. Few people waited in line more than 5 minutes, and Parking Section personnel (here, Judy McClement and George Whitley) processed registration in about 30 seconds per person. Remember, cars without new stickers will be ticketed starting May 29.

Dr. James Gowans of Medical Research Council in Britain Visits Directors at NIH

At the beginning of his visit to NIH, Dr. Gowans (second from r) met in the Director's office with Dr. Fredrickson (r) and (l to r) NIH Deputy Director Dr. Thomas E. Malone, NIH Associate Director and Clinical Center Director Dr. Mortimer B. Lipsett, Director of the Executive Secretariat J. Leonard Hooper, NIH Associate Director for Program Planning and Evaluation Dr. Joseph G. Perpich, Dr. Joseph R. Quinn, chief of the International Cooperation and Geographic Studies Branch, Fogarty International Center, and NIH Deputy Director for Science Dr. DeWitt Stetten, Jr.

At the invitation of NIH Director Dr. Donald S. Fredrickson, Dr. James L. Gowans, Secretary of the British Medical Research Council, visited NIH on April 17-19.

Dr. Gowans came to NIH to discuss matters of mutual interest, problems connected with large programs, the emphasis given to certain program areas, and to become more familiar with the Directors and staff members of several Institutes.

Named to his current post (comparable to that of NIH Director) in April 1977, Dr. Gowans was the subject of a feature story in the Dec. 9, 1977 issue of *Science* magazine.

The Medical Research Council currently has an annual budget of $95 million. While some research is carried out at centralized facilities at Mill Hill, London, and at Northwood Park, most of the research is done at universities and other laboratories by scientists employed by the MRC.

An immunologist known for his studies of lymphocytes, Dr. Gowans received his degrees from Kings College, London, and Oxford University.

In 1947, while working in Lord Florey's laboratory at Oxford he met Dr. Robert Q. Marston, now president of the University of Florida and a former Director of NIH.

Dr. Gowans has held several teaching posts at Oxford and has done research abroad at the Institut Pasteur in Paris, at New York University, and in Australia. Among his numerous honors, he has been named a Fellow of the Royal Society (1963), Commander of the British Empire (1971), and a Fellow of the Royal College of Physicians.

While at NIH, Dr. Gowans visited Dr. Richard M. Krause, Director of NIAID; Dr. Arthur C. Upton, Director of NCI; Dr. G. Donald Whedon, Director of NIAMDD; Dr. Ruth Hegelyi, assistant director for International Programs, NHLBI; Dr. Robert I. Levy, Director of NHLBI; Dr. Donald B. Tower, Director of NINCDS; and Dr. Martin C. Cummings, Director of NLM.

On his trip Dr. Gowans also visited research facilities in San Francisco and the Caribbean.

Seminar Considers Issues Of Women in Science

A half-day seminar on many issues that affect women who seek to enter and contribute to biomedical science through research and training supported by NIH Extramural Programs will take place on Friday, May 5, from 8:30 a.m. to 12:15 p.m. in Bldg. 1, Wilson Hall.

The seminar is sponsored by the Coordinating Committee for NIH Minority and Women Research Training, chaired by Dr. Zora J. Griffo, OD.

NIH Director Dr. Donald S. Fredrickson will welcome the group and present his views and expectations. Also, expert speakers from outside and within NIH will participate.

For more details see the April 18, 1978, issue of *the NIH Record*, page 11.

DR. KHORANA

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chemical Genetics, National Heart, Lung, and Blood Institute, and Dr. Robert W. Holley, Resident Fellow, Salk Institute for Biological Studies, San Diego, Calif.

In 1969 he received the American Chemical Society's Award for Creative Work in Synthetic Organic Chemistry.

Exactly 5 years ago, on another May 10, Dr. Khorana received one of the Nation's most prestigious awards in chemistry—The Willard Gibbs Medal of the American Chemical Society's Chicago Section—for his outstanding research on the synthesis of polynucleotides and on the nature of the genetic code.

Since 1960, Dr. Khorana has received over two dozen awards from scientific organizations in several countries, including the U.S., Canada, India, and West Germany.

Dr. Gillette 1st Chosen As Recipient of Brodie Drug Metabolism Award

Dr. Gillette is noted for training young scientists, more than 100 of whom have come to NIH from all over the world to continue their studies in his laboratory.

Dr. James R. Gillette, chief of the National Heart, Lung, and Blood Institute Laboratory of Chemical Pharmacology, has been chosen as the first recipient of the Bernard B. Brodie Award in Drug Metabolism by the American Society for Pharmacology and Experimental Therapeutics.

The presentation will be made in August at the fall meeting of the Society in Houston.

The award was established by CIBA-Geigy Corporation, Summit, N.J., in honor of the fundamental contributions to the field of drug metabolism and disposition by Dr. Brodie, who for many years headed the NHLBI Laboratory of Chemical Pharmacology.

The award will be presented every other year by ASPET in recognition of outstanding original research in this field, particularly that which is likely to have a substantial impact on future research.

Dr. Gillette worked under Dr. Brodie and succeeded him as lab chief in 1972. He is internationally known for his studies on drug metabolism, pharmacokinetics, teratology, and biotransformation of environmental pollutants.

His research group has contributed enormously to scientific understanding of the relationship that often exists between drug metabolism and drug toxicity.

Their work has demonstrated that even relatively inert drugs—in the course of their conversion by the liver or other tissues into compounds more readily excreted by the body—may give rise to highly reactive intermediates.

These may cause cellular disruption and tissue necrosis perhaps by combining avidly with nucleic acids, proteins or other cellular macromolecules.

A native of Hammond, Ind., Dr. Gillette received his B.A. in chemistry from Cornell College in Iowa and his M.S. and Ph.D. degrees from the State University of Iowa, the latter in 1954.

That same year, he joined the NHLBI Laboratory of Chemical Pharmacology as a chemist. He was named deputy chief of the Laboratory in 1967 and chief in 1972.

NIH-White House Softball Game Scheduled May 7

The third annual Patient Emergency Fund softball game between the White House team and the NIH Gashouse Gang will be played Sunday, May 7, at 2 p.m. at the Georgetown Prep School field, Rockville Pike (about 3 miles from NIH).

Dr. Mortimer Lipsett, Clinical Center Director, will throw out the first ball, and the game will be MC'ed by Sonny Jurgenson and Frank Herzog of WTOP-TV.

It's a family outing—free admission, with food and drink available. Bring friends, too. All donations and proceeds go directly to the Patient Emergency Fund. Numerous door prizes will be given.

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