AEC to Join NCI In Research on Cancer Causes

The National Cancer Institute and the Atomic Energy Commission will conduct a joint research project to investigate the roles of radiation, viruses, and chemicals as causes of cancer. The research will be carried on at the Oak Ridge National Laboratory (ORNL), Oak Ridge, Tenn.

The collaborative investigation will take advantage of the facilities of the Atomic Energy Commission and its previous studies of the effects of radiation on various biological materials, as well as of the special research competencies and previous findings of the National Cancer Institute.

Dr. Terry Comments

In commenting on the project, Dr. Luther L. Terry, Surgeon General of the Public Health Service, said:

"The incidence of cancer, especially lung cancer, and the increase in number and amount of potentially cancer-causing agents to which man is being exposed, emphasize the need for a joint research project between the Atomic Energy Commission and the National Cancer Institute. The importance of this project is that it is cooperation between the public and private sectors of our society." (See CANCER CAUSES, Page 7)

Celebrezze Holds Cooperation Vital in War Against Disease

Anthony J. Celebrezze, Secretary of Health, Education, and Welfare (left), confers with Dr. Milton S. Eisenhower, President of Johns Hopkins University and Co-chairman of the 1963 National Health Forum, at the recent meeting.

By Helen K. Neal

In his opening address before the 1963 National Health Forum, March 18 at the Mayflower Hotel in Washington, Anthony J. Celebrezze, Secretary of Health, Education, and Welfare, said, "If I were asked to name the single most important factor in our Nation's progress against disease, I would say without hesitation that it is cooperation between the public and private sectors of our society."

First Mental Health Information Center For Latin America Has NIMH Support

The first mental health information center for Latin America was opened recently in the Pan American Sanitary Bureau in Washington, D. C. The Bureau is the World Health Organization's regional office in the Americas.

Designed to collect and classify information and data about Latin American mental health problems, the Latin American Information Center on Mental Health is being financed through 1968 mainly out of a $127,000 grant from the National Institute of Mental Health. After 1966, the Center will be financed entirely from the Pan American Sanitary Bureau's budget.

Dr. Jorge M. Valezco-Alzaga of Mexico, the Bureau's mental health adviser for the hemisphere, was named director of the Center. Dr. Margaret Urist of Osborne, Kans., a political scientist in international relations, was named co-director.

The Center's responsibilities include (1) compilation of directories of psychiatrists, psychiatric hospitals, and psychiatric services and clinics in Latin America, (2) determination of resources and facilities available in Latin America for the solution of mental health problems, (3) provision of information to mental health investigators and institutions, and (4) promotion of research in mental health.

Next October the Center is sponsoring a regional mental health seminar for participants from about 10 Latin American countries in Mar del Plata, Argentina.

DHEW to Honor Six From NIH at Ceremony Today

Six NIH staff members will receive meritorious service awards today at the 12th Annual DHEW Honor Awards Ceremony, to be held at 3 p.m. in the DHEW auditorium.

The Department's highest honor, the Distinguished Service Award, will be presented to Dr. Roy Hertz, Chief of the Endocrinology Branch of the National Cancer Institute.

Superior Service Awards

Recipients of the DHEW Superior Service Award will be Dr. Margaret Pittman, Chief of the Laboratory of Bacterial Products, Division of Biologics Standards; Dr. John E. Tobie, Head of the Applied Immunology Section, Laboratory of Immunology, National Institute of Allergy and Infectious Diseases; Dr. Stephen P. Hatchett, Chief of the Career Development Review Branch, Division of Research Grants; Emanuel Landau, Chief of the Biometrics Section, Collaborative Research, National Cancer Institute; and Richard L. Siggel, Executive Officer of the National Institutes of Health.

Dr. Hertz will be cited "in recognition of his distinguished contribu-

(Continued on Page 6)
the NIH Record

Published bi-weekly at Bethesda, Md., by the Public Information Section, Office of Research Information, for the information of employees of the National Institutes of Health, principal research center of the Public Health Service, U.S. Department of Health, Education, and Welfare.

THE NIH RECORD

News from Personnel

College Recruitment

Data sheets on science majors who will graduate this June in the hands of Institute and Division Personnel Officers. These data sheets outline the background of carefully selected students who are interested in working at the NIH. They are the result of an unusually successful series of campus visits by members of the Recruitment and Placement Section, PMB.

Identifying and contacting quality graduates is one phase of the NIH College Recruiting Program. Each year, PMB representatives visit approximately forty colleges and universities. These periodic contacts with university placement officers and students help NIH get its fair share of well qualified graduates.

Universities Visited

An equally important part of the NIH Program is carried out by Program officials. These officials frequently visit universities on other matters but take the opportunity to do selective recruiting for themselves or their colleagues.

PMB seeks to assist these officials by supplying kits of material that contain publications and other information they may need. They are urged to get in touch with their I/D Personnel Officers before visiting a university, so that he can supply them with the latest information. Even though they have no immediate need, someone else may. Their Personnel Officers will know of these needs.

PMB to Attend FASEB

PMB has announced plans for NIH representation at the annual meetings of the Federation of American Societies of Experimental Biology, to be held in Convention Hall in Atlantic City April 16-20.

These meetings serve as an excellent source of recruitment by providing an exchange of information between employers and individuals desiring positions in the Federated Societies which cover the fields of physiology, biochemistry, pharmacology, pathology, nutrition, and immunology.

NIH professional personnel attending the meetings who are interested in interviewing candidates or desire the assistance of the PMB Placement Service are urged to contact John D. Ewan, PMB representative. Mr. Ewan will be located at the Placement Service in the lower lobby of Convention Hall.

Organization Handbook

The Management Policy Branch, Office of Administrative Management, has recently compiled the first annual edition of the NIH Organization Handbook. The Handbook contains organization charts and descriptions of the activities of the Institutes and Divisions, the names of principal Institute and Division officials, a chart depicting NIH's historical development, and several other items that make it particularly desirable for reference or orientation purposes.

Copies of the Handbook may be obtained by calling Mrs. Sylvia Vogel, Ext. 4608.

Licenses Granted For Marketing of Measles Vaccines

Licenses for the manufacture of two types of measles vaccines were approved March 21 by Anthony J. Celebrezze, Secretary of Health, Education, and Welfare, acting on the recommendation of Dr. Luther L. Terry, Surgeon General of the Public Health Service.

Merek, Sharp & Dohme, ofPhiladelphia, Pa., was licensed to market live attenuated measles vaccine in interstate commerce, and Chas. Pfizer & Co., Inc., of New York, N.Y., and Terre Haute, Ind., was licensed to market inactivated vaccine.

The action permits distribution of the vaccine to the Nation's physicians. The announcement said a limited number of the live vaccine would be available immediately and the killed vaccine would be available within a few weeks. It is expected that both vaccines will be generally available within a few months.

Licensing Explained

Under the National Biologies Control Act, a license for the manufacture and interstate distribution of vaccines, serums, antitoxins, and similar biological products for medical use can be issued. The manufacturer demonstrates that his product meets Federal standards of safety, purity, and potency.

Such products are tested and evaluated to see that they meet these standards by the NIH Division of Biologies Standards.

Development of the measles vaccine stems from the work of Nobel Prize winner, Dr. John Enders of Harvard University, and an associate, Dr. Thomas Peebles, who isolated a strain of the measles virus in 1954. From the original strain of the virus, designated the Edmonston strain, both the live and the killed vaccines have been produced.

Ranks No. 1

Measles is the number one childhood disease. Among children, measles may lead to deafness, mental crippling, and pneumonia. In adults, measles is a severe and sometimes fatal disease.

While measles constitutes a significant health problem in the United States, it is even more serious in other parts of the world. In Africa and South America, for example, the death rate among children may be as high as 25 percent.

Over the past several years, the vaccines have been successfully tested both in this country and abroad. Nearly 50,000 children in the United States alone have received these vaccines in field trials.

(See MEASLES, Page 5)
NIMH Finds Diminished Binding of Epinephrine In Hyperthyroid Heart

National Institute of Mental Health scientists have found that cardiac cell membranes are related to increased delivery of the catecholamine in the heart and decreased inactivation by binding.

These findings were reported by Drs. R. J. Wurtman, L. J. Kopin, and J. Axelrod of the Laboratory of Clinical Science, NIMH.

Hyperthyroidism enhances epinephrine's effect on blood pressure, blood glucose concentration, heat production, and oxygen consumption.

Postulating that the prolonged hemodynamic response of the hyperthyroid rat to epinephrine was related to a decrease in the ability of its heart to inactivate the circulating catecholamine, the NIMH scientists studied the delivery of H₂-epinephrine to the hyperthyroid heart and the subsequent disposition of epinephrine during its period of physiological activity.

Heart Is Enlarged

In hyperthyroid animals the heart is enlarged. Thus, although a greater proportion of a given dose of administered epinephrine is delivered to the hyperthyroid heart, each gram of hyperthyroid heart receives the same fraction of circulating epinephrine as an equal weight of normal heart. However, total cardiac capacity to bind epinephrine is not increased.

The data of this study indicate that the capacity of each unit weight of heart to inactivate epinephrine, by binding, is decreased with hyperthyroidism. Thus, the cardiac concentration of free epinephrine remains elevated, to act upon the receptors.

The physiologic actions of epinephrine are terminated by its binding to the receptors, or by its being metabolized by O-methylation.

Small doses of thyroxine which altered the rat heart response to epinephrine did not affect the activity of hepatic or cardiac catechol-O-methyl transferase or the quantity of O-methylated metabolites in the heart. Cardiovascular sensitivity to epinephrine in hyperthyroid animals appears to be unrelated to the enzymes involved in catecholamine metabolism.

The NIMH scientists have proposed that the capacity of the heart to inactivate circulating epinephrine by binding is diminished in hyperthyroidism and that the consequent elevated levels of free epinephrine may be a major factor in the development of super-sensitivity to injected epinephrine.

OPEN-HEART SURGERY REQUIRES TEAMWORK

That surgery to correct a congenital heart defect in a child is a team effort is evident from this picture taken during an open-heart operation at the National Heart Institute's Surgery Branch in the Clinical Center. More than a dozen people—surgeons, anesthesiologists, nurses, and technicians—are needed in the operating room. Some are not visible in this picture. Two-thirds of the Heart Institute's surgical patients are children. The heart-lung machine and its operator are in the foreground. —Photo by Jerry Hecht.

Cardiovascular Diseases

In Yugoslavia will Be NHI Study Project

Plans have been outlined for an epidemiological study of cardiovascular diseases in Yugoslavia as a cooperative project between the National Heart Institute and the University of Zagreb School of Public Health. The project will be financed by PL 480 funds which are available to NIH for the support of collaborative research agreements in those countries where such currencies exist.

The general plan for this study was agreed upon with Dr. Bojan Fire, Professor of Epidemiology of the Zagreb Institution, during a recent visit to Yugoslavia by Dr. Harold Dorn, NHI Biometrics Research Branch Chief; Dr. Thomas Damberger, NHI Dean; Dr. John B. Ingalls, Framingham Heart Study; Dr. William Zukel, NHI Associate Director for Collaborative Studies; and Dr. Jack Strong, Associate Professor of Pathology at Louisiana State University.

Purpose Explained

The purpose of the study is to determine the relationship between environmental patterns of living as they relate to the development of coronary heart disease. Investigators will attempt to take advantage of the differences in patterns of living between population groups in Yugoslavia.

The project will begin next September in the City of Remetinec, a suburb of Zagreb.

After the Yugoslavian investigators have obtained experience in carrying out the study in the Remetinec area, a further study is planned in another area where there is a Moslem population with different patterns of diet and culture.

causing a leprosy-like condition in mice, to provide a means for rapid testing of possible new anti-leprosy drugs.

Since this organism grows and multiplies very slowly, the best method of growing it would be to use a type of host-cell which also multiplies very slowly. This can be maintained in a good condition for a long time, permitting lengthy observation. In a cell such as the macrophage, changes in the bacteria can readily be observed.

In the new medium, Dr. Chang has been able to grow and maintain macrophages in good condition for more than 200 days. Successful growth of M. leprae murium has been obtained in this cell system.

The new cell system is to be presented at the annual meeting of the Federation of the American Societies for Experimental Biology in Atlanta City this month.
Editors, Scientists Explore Aspects of Scientific Communication, Information

By Herbert B. Nichols

More than 100 editors of biological journals met in Washington March 18-20 to confer with other national leaders concerned with scientific communication and information, in an attempt "to put our house in order," as more than one speaker said.

There is, however, much diversity of thought concerning what needs to be done. Dr. David E. Price, Deputy Surgeon General of the Public Health Service, discussed recent preliminary steps taken within the Service, which he said "led to barriers that have temporarily slowed us down."

Barriers Cited

He referred principally to a "lack of legislative authority to carry out action programs" and "the absence of a definite dividing line between responsibility and authority of the Federal Government in such matters and the private sector of our economy."

Among many questions seeking answers, he posed the following: How should Federal interest be demonstrated? Is direct financial support inevitable? How much control will professional journals surrender—over the economy of production, for example; over the quality of editorial criticism; over format and use of illustrations?

"We find ourselves," he said, "with no clear authority to assist in the support of new journals or to expand older ones. . . . It is clearly not enough to say that journals are simply reporting mechanisms. They are part of the research process itself. Papers published help mold and discipline the directions taken by future research.

Improvements Needed

"We have the finest biomedical communications system in the world, but we are caught in the turbulence of scientific revolution and stand at the beginning of a new era in scientific communication. . . . There is no doubt about there being room for improvement.

"I hope we can agree," he concluded, "that the entire idea and process of publishing scientific papers should be reviewed, lightened, and improved at every step."

Dr. Milton L. Zisowitz of Cornell University Medical College was one of two speakers advocating graduate school training in writing for those who would someday be called upon for scientific reports. He deplored the fact that it is possible at some universities for an English major to get a doctorate and still not have a good command of the English language and that in medical schools proper writing training is almost unheard of.

He spoke caustically about those who believe "It takes years to learn how to listen to a heart, but any fool can write."

Dr. Burton Adkinson of the National Science Foundation (who was credited by Conference Chairman Fred R. Cagle with having persuaded biological editors to get together for such meetings as this) urged assembled communicators to "take leadership in improving the availability of scientific reports," reduce their backlogs of unpublished material, and "try to increase the use of page charges for scientific publication and thus avoid outside subsidy."

New Methods Sought

NSF, he said, is striving to encourage publication of scientific material in the usual manner, provide support for abstracting and indexing services, support high quality monograph and proceedings publication (in which commercial publishers see no profit) and to experiment with new ways of getting information to the scientist and the public.

He urged continual study of communication techniques. "Nobody has any way of measuring the communication needs of science," he said. "Many will tell you what they think is needed but they can't define it clearly or precisely."

To those looking to the Government to solve their problems, he said, "Information is an integral part of research and development. It should not be considered free for the asking. Publication charges should be accepted as an integral part of R and D costs."

Warrants Against Subsidies

Page charges, he said, should be given serious consideration. "Remember," he added, "that direct subsidy usually leads to control by the subscriber. If the Government gets in, it will tell you how to do your job. Figure out fair charges and make them stick."

Guest speaker following the annual dinner was Julius Cahn, project director for the Subcommittee on Reorganization and Internal Organization of the Senate Committee on Government Operations.

Headed by Senator Hubert Humphrey of Minnesota, the subcommittee has been urging establishment of federal centers for scientific communication.

Mr. Cahn commented favorably on recent actions taken both in and out of government to get at the heart of current communication difficulties and urged anyone with ideas to "come up on Capitol Hill and let us hear them. We hope you will speak freely. The Congress is reaching out and wants many opinions."

So much of what we hear about scientific communication and information has been monologue, he said, that we are concerned over the possibility that we are listening to the proverbial blind men describing an elephant according to where their fingers happen to touch.

"How scientific information is to be dispensed, you best are able to decide," he asserted. "A number of years ago publishers suggested newspapers were predicted. They haven't appeared yet. We can imagine what sorts of mechanism for reports, including central banks of information serving regional banks. But the basis of our evaluation must be the human need. Many have dreamed great visions and many visions may come to pass. What they look like will be up to you. All we can do is help."

"No matter what may be added," he concluded, "let it be related to the world as it is. If senior members of the scientific community stop reading journals and if communication should take the form of an invisible college as the source of creativity, let's recognize it and help it to progress."

"If journals are 'all trash' then let's examine the situation and see where we can best place the taxpayers' money to insure the best results. We must be honest with ourselves and be creatively dissatisfied because of undone tasks."

Five New Virus Strains Recovered by NIAID Named Picornaviruses

Dr. K. V. Mathai, a visiting scientist at the National Institute of Neurological Diseases and Blindness, was commended recently for his humanitarian efforts and medical assistance on the Island of Guam during the past year.

In a letter of appreciation, Maj. Gen. Oliver K. Niess, Surgeon General of the Air Force, praised Dr. Mathai for his service to the people of Guam during the typhoon "Karen" and for his assistance following an emergency plane landing that involved the injury of military personnel.

Dr. Mathai, who was the only neurologist and neurosurgeon on Guam at the time of these emergencies, is Associate Professor of Neurosurgery at the Christian Medical College, Vellore, India.

Since 1961 he has been on assignment as a visiting scientist to the Epidemiology Branch, NINDB, where he has been involved in studies of amyotrophic lateral sclerosis and multiple sclerosis in the Pacific area.


NINDB Visiting Scientist Honored by Air Force For Service in Guam

The American Committee on Enteroviruses has since reviewed the protocols for the five new strains and has designated them as "picornaviruses unclassified, types 2-6 (U. S.)." Type 1 (U. S.) is proposed for Enterovirus 59.

59 Serotypes Noted

With the introduction of new techniques of virus cultivation, the family of human enteroviruses has continued to grow until it now includes 59 distinct serotypes.

In the American Journal of Hygiene Drs. Johnson and Rosen present data showing that the five virus serotypes recovered from the human oropharynx were ether-resistant and no larger than 58-53 nm, and produced in cell cultures cytopathic effects similar to those induced by enteroviruses.

In reciprocal neutralization tests, the viruses were not related serologically to one another nor were they related to any of the enteroviruses previously recognized. They were also distinct from six "rhinoviruses" so designated by workers in England.

Surveys of human sera indicated that a majority of individuals 30 years of age and older possessed neutralizing antibodies against each virus, including central banks of information serving regional banks. But the basis of our evaluation must be the human need. Many have dreamed great visions and many visions may come to pass. What they look like will be up to you. All we can do is help."

"No matter what may be added," he concluded, "let it be related to the world as it is. If senior members of the scientific community stop reading journals and if communication should take the form of an invisible college as the source of creativity, let's recognize it and help it to progress."

"If journals are 'all trash' then let's examine the situation and see where we can best place the taxpayers' money to insure the best results. We must be honest with ourselves and be creatively dissatisfied because of undone tasks."
Int'l Union Cancer Group Tours NIH Facilities As Guests of NCI

Nine members and guests of the Committee on Voluntary Organizations of the International Union Against Cancer visited the National Institutes of Health March 29 as guests of the National Cancer Institute during their 2-day visit to Washington.

The committee is investigating the organization, structure, and financing of voluntary cancer organizations in member countries.

Its members were especially interested in examining the relationship that exists in this country between the National Cancer Institute, as a government agency, and the American Cancer Society, the voluntary agency.

Dr. Weiger Is Host

The visitors were met at the airport by Dr. Robert W. Weiger, NCI Assistant Director, official host for the visit, and by James F. Kiley, NCI Information Officer.

The first day’s activities included a visit to the Surgeon General’s Office, where Dr. James Watt, Director, Division of International Health, OSG, addressed the group.

The official greeting was followed by brief visits to the embassies of the countries represented by the touring committee members.

Led by Dr. John R. Heller, Jr., Committee Chairman and President of the Memorial Sloan-Kettering Cancer Center and a former Director of the NCI, the visitors spent the second day of their visit touring NIH facilities.

They were welcomed to the reservation by Drs. G. Burroughs Mider, NIH Director of Laboratories and Clinics, and were received by the NCI Director, Dr. Kenneth M. Endicott.

Visitors Listed

Besides Dr. Heller, the group included Mildred Allen, Committee Secretary and Head of the American Cancer Society’s foreign desk; Dr. Antonio Prudente and his wife, Mrs. Carmen Annes Dias Prudente of Brazil; Dr. M. E. A. Kharaedy of Egypt, Niilo Voipio of Finland, Dr. D. J. Jussanawalla of India, Dr. Paul Ponhous of Lebanon, and Dr. J. P. Delafresnaye of Switzerland.

Short talks by Drs. Mider and Endicott stressed the cooperation that exists between the NCI and the ACS.

The group was received at the Clinical Center by Dr. Jack Mazur, Clinical Center Director.

Dr. Charles G. Zubrod, NCI Director of Intramural Research, briefed the visitors on the current intramural research and clinical activities of the Institute, with special emphasis on the work being done by the recently formed Human Cancer Virus Task Force and the Acute Leukemia Task Force.

A quartet of keymen in the National Health Agencies and Federal Service Joint Crusade show their units have achieved 100 percent participation. They were among the first ten keymen—all women—to report full participation. These four (left to right) are Beverly Mittenberg, Sharon Kinder, Marilyn Bierley, and Sandra Shaw, all of NIH.—Photo by Bob Pumphrey.

NHA-FSJC Drive Now Well Ahead Of 62 Total

The Division of Research Facilities and Resources was the first of the 17 NIH units to reach 100 percent in the National Health Agencies and Federal Service Joint Crusade Campaign, according to last week’s tabulations. DRFR reported 100 percent in both areas of the campaign.

The National Institute of Child Health and Human Development was second with 95 percent in both drives, followed by the National Institute of General Medical Sciences, with 73.3 percent in both areas.

Nearing the three-quarter mark in the current campaign, NIH has almost as good a percentage now as it did at the end of last year’s drive.

Ahead of Last Year

The NHA percentage total here last week was 42.7, while FSJC was 41. At the end of last year’s drive, NIH had 50.6 and 48.2, respectively.

In total contributions this year, the Division of Research Services is faring far with 687 and 697. The Clinical Center is second with 606 and 547, followed by the National Cancer Institute with 440 and 437.

The Clinical Center shows the greatest improvement in participation over last year’s campaign, with a 99 percent increase in NHA and 88 percent in FSJC. The National Heart Institute is second with increases of 90 percent and 84 percent.

Credit Union Joins

A new unit which kicked off its drive last week, the NIH Federal Credit Union, will report with the next returns. This will bring the total number of reporting units to 18.

So far NIH has a total of 3,923 contributions for the NHA and 3,839 for the Joint Crusade. This reflects almost 42 percent participation, which is an increase of 24 percent over the prior Record report.

“The increase in interest and participation in the campaign is very heartening,” said Dr. Ralph E. Knutti, NIH Director and NIH Campaign Chairman.

“NIH is holding its own so far. With a good effort in the final days of the campaign, we can improve on our report last year, but more importantly, offer greater help to these worthy organizations.”

Motto hanging on office wall of a research department: "This problem, when solved, will be simple."—Reader's Digest.
DHEW to Honor Six at Ceremony

(Continued from Page 1)

As Chief of the Endocrinology Branch, Dr. Hertz formulates, organizes, and administers an integrated program of clinical and biological research designed to elucidate the role of the glands in normal and abnormal growth and development, and treatment of cancer. Emphasis is placed upon tumors arising in the breast, cervix, and prostate, and on hormones and their effects as determined by laboratory tests.

Dr. Tobie's award is for "meritorious research on detection of malignant disease and for effective administration of the Laboratory of Immunology, NIAID."

Dr. Hatchett will be cited for "an important contribution to the mission of the National Institute of Health through his personal achievement and exemplary direction of Branch." He is being cited for his work as Chief of the Biometry Section from 1959 to 1962, during which time he was principal investigator and was responsible for the planning, organization, conduct, analysis and direction of clinical, epidemiologic, and demographic research investigations across the NIH.

Mr. Seggel, a veteran of 23 years of Federal service, joined NIH as Executive Officer in 1958. From 1956 to 1958 he was Director of the Office of Management Policy, Office of the Secretary, DHEW. As Executive Officer, Mr. Seggel is the chief advisor to the NIH Director on management policy, organization, and administration.

Mr. Landau, Seggel Cited

Mr. Landau will receive his award "in recognition of meritorious contributions to human health through a better understanding of the health effects of air pollution."

Mr. Seggel will be honored "in recognition of his important contributions to the research mission of the National Institutes of Health through outstanding leadership in the formulation and execution of major management programs."

Dr. Hertz has served with the Federal Government for over 20 years, having joined the Division of Physiology, National Institute of Health in 1941. In 1948 he became a staff member of the National Heart Institute, and in 1947 was appointed Head of the Endocrinology Section.

Since 1962 he has been Chief of the Endocrinology Branch where he has been responsible for the development of one of the major NCI research programs. He initiated the Institute's clinical research activities in the Washington area and admitted the first patient to the Clinical Center in 1958.

As Chief of the Endocrinology Branch, Dr. Hertz formulates, organizes, and administers an integrated program of clinical and biological research designed to elucidate the role of the glands in normal and abnormal growth and development, and treatment of cancer. Emphasis is placed upon tumors arising in the breast, cervix, and prostate, and on hormones and their effects as determined by laboratory tests.

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Twenty-two of the 28 staff members appointed, as of April 1, to the National Institute of Child Health and Human Development are pictured in this smiling group. Front row, left to right: Dr. Eugene Book, Acting Research Coordinator; Dr. Robert P. Gers, Acting Chief of the Program Planning and Analysis Branch; Dr. Robert A. Aldrich, Institute Director; Dr. Donald Harting, Assistant Director; and Calvin B. Baldwin, Executive Officer. Standing, left to right: Gerald Atchison, Budget Officer; Miss Wanda Burnett, Mrs. Alida McBryan, Mrs. Virginia Hitz, Miss Janet Thompson, Paul Waugaman, Administrative Officer; Mrs. Agnes Schroeder, Dr. Helen Osefsky, Pediatric Cardiology Consultant; Mrs. Florence Mann, Miss Dorothy Joanne Davis, Information Specialist; Mrs. Arline Ludwig, Miss Mary Balaski, Mrs. Dorothy Rahley, Miss Lilian Freedman, Program Analysis Specialist; Mrs. Frances Lee, Mrs. Edna Scruggs, and Dr. Elizabeth Frame, Developmental Biology Consultant. Not pictured: Mr. Gene Wood, Acting Assistant to the Director; Mrs. Goldie Ruben, Mr. Morris Feitel, Developmental Pharmacology Consultant; Mrs. Anna Kretsing, Mrs. Helen White, and Mrs. Irene Lewis.—Photo by Bob Pumphrey.
phrastic the importance of these studies.

They will approach the very difficult problem of determining the respective roles of various known or suspected causes of cancer as studied under carefully controlled laboratory conditions.

This new research project will supplement and support the research and control efforts of several other Public Health Service programs which are directly concerned with the growing problem of environmental hazards to man.

The National Cancer Institute and the Atomic Energy Commission will work together in planning the research to be undertaken. The Commission will provide the necessary facilities and in addition will continue its own research program at ORNL on the effects of radiation on living organisms.

NCI Finances Program

It is anticipated that the program will operate initially at an annual level of $600,000, which will be financed by the Institute.

The National Cancer Institute will assign one or two key employees to work on the project with Oak Ridge Laboratory personnel.

The joint program will include a lung cancer study in which animals will be exposed to some of the types of chemicals, radiation, and viruses to which man is constantly exposed.

Radiation, for example, will be given both in doses large enough to produce cancer and in smaller doses corresponding to the low levels normally present in the human environment.

The chemicals to be used will include many that have been shown to cause cancer in various animal species—with emphasis on the kinds of substances present in, for example, automobile exhausts and certain industrial wastes—as well as others that are not known to cause cancer. The chemicals will be released into the chambers as aerosols that the animals will inhale.

Other Studies Listed

One of the studies will seek information which may help explain whether the increased incidence of cancer in middle-aged and elderly people results from a greater sensitivity of aged tissues to cancer-causing agents acting over relatively brief periods of time or from the cumulative effects of lifelong exposure to such agents.

Three other studies are being considered for the program.

One is an investigation of the cancer-producing effects of small amounts of chemicals that low doses of radiation given to animals in various sequences to simulate as far as possible with laboratory

NIH Will Participate in Research Program for Outstanding Students

NIH will participate in the Fourth Research Participation Program for senior high school students which is supported by the National Science Foundation. This nationwide program is designed to provide opportunities for intensive experience in science and mathematics to approximately 7,500 high school students by 164 colleges, universities, and research organizations.

Participation by NIH will involve an 8-week program in cooperation with the Joint Board on Science Education and American University, beginning June 19 and ending August 16.

Scientists Urged to Select

A group of six or eight outstanding students in the Washington area has been assigned to NIH. They will work a full 8-hour day without cost to NIH.

Scientists here who are interested in the program are urged to make their selections as soon as possible. The students' background folders are available for review now in the CC Clinical and Professional Education Branch, Bldg. 10, Rm. 2B50.

More detailed information about this Student Program may be obtained from Joseph Staton, Ext. 3381.

9 From OSB Complete NIH Supervisory Course

Donald B. Cushing, Chief of Office Services Branch, presented certificates on April 3 to nine supervisors and working leaders of the Transportation Section, OSB, upon completion of the NIH Basic Supervisory Course.

The course was conducted 2 hours each week for 12 weeks by Charles B. Mitchell of the Employee Development Section, Personnel Management Branch. Training, human relations, leadership, safety, problem solving, communications and general administration were among the subjects covered.

The Transportation Section of OSB operates the NIH Central Motor Pool and is responsible for maintaining and repairing all NIH vehicles and transporting furniture and equipment on and off the reservation.
In this exhibit displayed by the National Institute of Dental Research at the Pittsburgh meeting of the International Association for Dental Research, March 21-24, moving globes on a large atomic model illustrate the many basic sciences involved in dentistry. Each small globe represents a miniature laboratory in which tiny scientists work with miniature pieces of equipment representing electron microscopes, germ-free tanks, anthropological digs, and multicolored test-tubes. Fifteen scientific fields are demonstrated, including anatomy, crystallography, microbiology, nutrition, epidemiology, and materials science. Large color transparencies show ongoing research programs, and a slide projector presents problems awaiting exploration. The exhibit, titled "The Expanding World of Dental Research," was one of the highlights of the meeting attended by more than 1,000 research scientists from all parts of the world. Dr. Seymour J. Kreshover, Associate Director of NIDR, is President of the International Association for 1963.

Dr. Tuve, NIGMS, Wins Performance Award

Dr. Trygve W. Tuve, recently appointed Assistant Chief of the Research Grants Branch, National Institute of General Medical Sciences, has received a cash award for sustained superior performance. He was cited for demonstrating "an outstanding aptitude for scientific administration in the extramural programs of the NIH" and for "consistently applied judgment and wisdom in performing his duties and effectively communicating results."

Praised by Dr. Brewer

In presenting the award, Dr. Carl Brewer, Branch Chief, said, "His outstanding performance has assisted greatly the quality of the work of the Branch during its difficult and formulative period."

A native of Washington, D.C., Dr. Tuve received the Ph.D. degree in 1958 from Cornell University. The same year he came to NIH, where he spent four years in intramural research programs, serving as a Research Fellow in the National Heart Institute and as a chemist with the National Institute of Arthritis and Metabolic Diseases.

In August of 1961 Dr. Tuve joined the Research Grants Branch of the then Division of General Medical Sciences as a Program Analyst, and in February of this year was promoted to Scientist Administrator.

He is the author of scientific papers dealing with the mechanism of selenium and the isolation and characterizations of ribonucleases.