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Tower Opens; Lab Moves Planned



Dining area of Tower Building cafeteria, looking toward 59th Street Bridge.

The Tower Building no longer looms in inscrutable isolation.

On July 1 the new cafeteria, approached through a maze of boards protecting the unfinished plaza, opened its doors. Over 700 curious and hungry souls showed up for the first lunch hour—"all at the stroke of noon," according to Miss Leah R. Woerner, manager of dining and residence halls. There was a little confusion about which was the cold-plate line, and some pondered the protocol of a second cup of coffee ("help yourself"), but at a large corner table, early arrivals Dr. William A. Gibbons, Mrs. Gibbons, and their four children, up to their ears in grins and hamburgers, gave a homey touch to the occasion.

The third floor, devoted to conference rooms and lecture halls, was also completed during the summer. As this issue went to press, the Bio-Medical Division of the Population Council was scheduled to move into the Tower's first completed laboratories, on the fifth, sixth, and seventh floors, before the end of September. This branch of the council, an independent organization, has been housed on campus for a number of years, with offices and laboratories in Flexner, Smith, and Founder's. The council contributed a

proportionate share of financial support toward the Tower construction.

Later this fall Professor Edward Reich will install his chemical biology group on the 9th floor, and Professor Rodney L. Cool (see page 2) will set up an experimental physics lab on the 12th floor. Laboratories on the 4th floor are being readied for Professor William K. Estes, on the 8th floor for Professor Vincent G. Allfrey, on the 13th floor for Professor A. Pais, on the 14th floor for Professors E. G. D.

Cohen and Kenneth M. Case, and on the 15th floor for Professor Mark Kac.

The Tower Building, the work of architect Nelson Aldrich of the firm of Campbell, Aldrich and Nulty, in consultation with University personnel, incorporates a number of structural innovations. (For details, see *news and notes*, September, 1969.) Designer Thomas J. Ralin of Buildings and Grounds, with the assistance of draftsmen Manuel Vargas and Wilfred Perez, is responsible for the internal plans of the laboratories and offices. Mr. Ralin has been with Rockefeller for 13 years, having begun as a draftsman. In addition to designing alterations and renovations in existing buildings, he and his men planned the working space in South Laboratory. For the Population Council's new quarters in the Tower, they created 35 laboratory units, including a large electron microscope lab, a glass-washing unit, two cold rooms, a darkroom, a library area, and a conference room. Half of the seventh floor is devoted to animal rooms. On the sixth floor are spacious offices fronted by floor-to-ceiling interior glass walls, an efficient and handsome design element of which Mr. Ralin is very proud. Each area has acoustical tile ceilings, sheet vinyl flooring in the labs and carpeting in the offices, and recessed lighting which gives a skylight effect—very cheery and easy on the eyes.

Arteriosclerosis Research Center Established

A Center for Research in the Prevention of Premature Arteriosclerosis has been established at Rockefeller in a joint effort with the Albert Einstein College of Medicine of Yeshiva University and the College of Physicians and Surgeons of Columbia University. The program, announced July 15, has an initial grant of \$939,250 from the National Heart and Lung Institute of the U.S. Department of Health, Education, and Welfare, with a promise of \$6.5 million over a five year period. (Somewhat similar but smaller programs are being funded in 12 other

universities and medical centers across the country.) Professor Edward H. Ahrens, Jr. of Rockefeller is principal investigator in association with Dr. Howard A. Eder, professor of medicine at Albert Einstein, and Dr. DeWitt S. Goodman, professor of medicine at the College of Physicians and Surgeons.

Elevated levels in the blood of cholesterol and of other fatty substances, which are collectively called lipids, are strongly associated with increased risk of arteriosclerosis (so-called hardening of the arteries) and its consequences such as heart attacks and strokes. It is

one of the major aims of the center to identify and to study in depth, over a period of years, more than 2,000 men and women in the supposedly well population who have one or another unsuspected form of high lipid level. Major attention will be given to responses to diet and drugs, genetic and behavioral aspects, and other factors that will determine the success of any preventive medicine attack on coronary heart disease, one of the major causes of death in the United States today. In the last 15 years, major advances have been made in the laboratories of the three principal investigators in gaining a better understanding of disordered lipid metabolism in relation to arteriosclerosis. Nevertheless, no single laboratory has had the facilities to conduct the kind of interrelated and broad-based investigations that the center now makes possible.

The center's operation will begin with screenings for high-risk individuals by the medical departments of large organizations in the private sector such as health insurance and telephone companies. Individuals thus identified will be sent to the central clinic at Rockefeller for further examination and comparative studies. Satellite clinics and the lipid research laboratories at the three institutions will study selected patients who, in addition to having high blood lipid levels, may have already developed coronary disease, diabetes, or hypertension.

Dr. Ahrens said, "The long-term study will provide certain much needed information that is not now available about the several causes of high blood lipid levels in different people. In addition, the program will make available to the three research laboratories sizable numbers of selected patients in whom it is appropriate to investigate certain key questions in clinical cardiology and pharmacology, pediatrics, behavioral psychology, biometrics, and data processing—questions to which answers must be available before any large-scale prospective attack can be made in prevention of coronary heart disease in this country. We are delighted to be able to announce that the most critically important position—that of medical director of the central clinic—has been filled. Dr. George L. Curran has accepted this position as of September 1st. Dr. Curran brings to this position great talents in clinical medicine and administration, and is highly regarded for his basic biochemical studies of cholesterol biosynthesis. He has recently resigned his position of professor of medicine at the College of Physicians and Surgeons."

Cook Announces Two Development Grants

Trustee C. W. Cook, chairman of the University's development committee, has announced the first grant of more than a million dollars from a private source other than Rockefeller funds—a pledge of two million from the Scaife Family Charitable Trusts of Pittsburgh, Pennsylvania.

A letter in July from Richard M. Scaife to David Rockefeller, chairman of the board, specified that the funds—payable over a period of eight years—should be allocated to basic research programs in environmental sciences and in reproductive biology as described in the University's overall development plan. President Seitz is given maximum flexibility in determining how the funds are to be used. The letter was accompanied by a check for \$250,000, representing the first installment.

Mr. Cook also reported that the Surdna Foundation, Inc., of New York City, in July contributed \$100,000 to the University's development program. This private foundation is a supporter of hospitals, higher education, medical research, and local or community funds.

Mr. Cook, in announcing the grants, described them as "an encouraging and significant demonstration that the University's work merits and will earn much greater support from private sources—foundations, individuals, and corporations—with a concern for excellence in scientific research and education."

Joint Study Program

Rockefeller University and the Cornell University Medical College have instituted a joint program of study in the biomedical sciences leading to an M.D. degree from Cornell and a Ph.D. from Rockefeller. It is the first program of this type involving two major educational institutions. Students selected for the program will spend the first two years at Cornell in the preclinical curriculum during which time they will also be encouraged to become familiar with research projects on this campus, participate in seminars here, and seek out their own area of interest. The next three years they will work primarily at Rockefeller while still attending conferences and clinical rounds at Cornell. For the last year they will return to Cornell for the regular third year of medical training.

Faculty Appointments

Twenty-one new faculty appointments have been announced. The list includes two associate professors, five assistant professors, nine visiting professors, and five visiting associate professors.

ASSOCIATE PROFESSORS

Konstantin Goulianos, *experimental physics*
Michael J. Tannenbaum, *experimental physics*

ASSISTANT PROFESSORS

Donald A. Elliott, *cellular physiology and pharmacology*
Thomas Finlay, *biochemistry*
Simon Gordon, *cellular physiology and immunology*
Larissa Pohorecky, *physiological psychology*
H. Terazawa, *theoretical physics*

VISITING PROFESSORS

Jeremy Bernstein, *theoretical physics*
Charles Dolph, *theoretical physics*
G. Evelyn Hutchinson, *animal behavior*
George J. Janz, *biochemistry*
Seymour Papert, *mathematics and logic*
Charles D. Parsons, *logic*
Virendra Singh, *theoretical physics*
Yutaka Tashiro, *cell biology*
Gabor Szabo, *biochemical genetics*

VISITING ASSOCIATE PROFESSORS

Owen W. Garrigan, *genetics*
Colin R. Hopkins, *cell biology and experimental pathology*
Haruo Nakamura, *metabolism of lipids*
R. P. Nanavati, *biophysics*
G. Tiktopolos, *theoretical physics*

RU Physicist to Lead U. S.-Russian Project

Professor Rodney L. Cool, Experimental Physics, spent the month of August visiting atomic energy facilities in the Soviet Union as a member of a group headed by Dr. Glenn Seaborg, former chairman of the Atomic Energy Commission. Beginning this fall, Dr. Cool will be in charge of a year-long collaborative research project involving Rockefeller University physicists and a group from the Joint Institute for Nuclear Research in Dubna, USSR. This will be the first time a group of Soviet scientists has worked in this country with an American team under the Seaborg-Petrosyants agreement. The program, to be conducted at the new 500 GeV (500 billion electron volts) accelerator of the National Accelerator Laboratory in Batavia, Illinois, will be concerned with the measurement of small angle elastic proton-proton cross sections. The Russian scientists are providing a supersonic hydrogen gas jet target as part of the instrumentation.



The photography page of the New York Times for Sunday, June 27 featured the work of "a young Chicagoan now living in Manhattan" who "composes beautifully and for a fine, mysterious effect." Prominently reproduced was the above photograph. The "young Chicagoan" is Barry R. Dworkin, graduate fellow in physiological psychology. A number of his photographs were exhibited recently at the Focus Gallery. Although always interested in photography, Mr. Dworkin says his serious involvement began at Rockefeller where he is in charge of the student-faculty hobby darkroom.

A Bow to Merrifield

The face on the cover of the August 2 issue of *Chemical & Engineering News* is that of Professor Bruce Merrifield. The accompanying article begins with the deceptively simple statement which Dr. Merrifield jotted down in his notebook on May 26, 1959: "There is a need for a rapid, quantitative, automatic method for the synthesis of long-chain peptides." And it goes on to describe the arduous and sometimes frustrating process that led to his most widely acclaimed achievement, the synthesis of the enzyme ribonuclease. The piece also gives a warm personal view of the private man and of the making of a scientist.

ONE DOWN, THREE TO GO

The first of four sections of the new 63rd Street subway and railroad tunnel was lowered into a trench at the bottom of the East River on August 29. With 500 tons of rock piled on top, the 375-foot-long steel and concrete structure, weighing 16,000 tons, sank 103 feet to the bed of the west channel in half an hour.

Eighteen New Graduate Fellows on Campus

From as close as Queens and as far as Australia, 18 new graduate fellows have joined the campus community. Gary J. Hoffman, the Australian, comes via the University of Oxford, as does Adam Drewnowski. Lourival Domingos Possani, with a degree from the Faculté des Sciences D'Orsay in Paris, is Brazilian, and Jurg Walter Tauber is an M.D. from Switzerland. Shu Man Fu comes from Honk Kong. He is a graduate of the Stanford University School of Medicine.

Completing the roster are:

Alan Louis Berger, *Queens College*
Daniel Gerald Caldi, *Fordham University*
Dominic Ka-On Cheng, *McGill University*
Jerry Allen Coÿne, *College of William and Mary*
Margaret Lucinda Jones, *Stanford University*
David Elliot Krieger, *Yeshiva University*
Ivan Mark Lieberburg, *Cornell University*
David Leon Lieberworth, *Northwestern University*
Barbara Jean Akawie Mazur, *University of California, Los Angeles*
Lee Laurence Rubin, *Cornell University*
Adina Beth Schwartz, *Oberlin College*
Dennis William Stacey, *Brigham Young University and University of Wisconsin*
Robert Michael Ziff, *University of California, Los Angeles*

Judged by the earlier arrivals on campus, the new fellows appear to share with their colleagues at Rockefeller a diversity of styles and interests, as well as geographical backgrounds. Cindy Jones, 22, with a math degree from Stanford University, came specifically to work with Professor William K. Estes in the area of human memory and learning. Although she looks as if she could still get into the movies for half-price, she's made of rugged stuff. Her 16th birthday present was flying lessons, which she took in a cloth-covered Piper of early vintage, and this past July, with a group of other students, she canoed and camped through the wilds of northern Canada.

Alan Berger, 25, a soft-spoken New Yorker, majored in philosophy at Queens College and then spent two years at M.I.T. He made the decision to apply to Rockefeller for completion of his doctoral work because the philosophy faculty here seemed to him oriented in directions that dovetailed with his own developing interests in logic and language.

David Lieberworth, 22, divides his time and attention between the vastly different worlds of the physics lab and the sprawling street life of cities. Wherever he finds himself, he looks beyond the enclosed academic environment for a special kind of education—in the ghettos and youth enclaves in Chicago, Berkeley, and now in New York. He is also a tennis player and self-confessed "stereo nut."

At 32, Swiss-born Dr. Jurg Walter Tauber, married and the father of two small children, has interrupted a successful career in surgery to study at Rockefeller. At the University Hospital in Berne he specialized in hepatology and organ transplantation. In January, 1971, his hospital sent him to Sloan-Kettering for further transplantation study, supported by Memorial Hospital. Working in New York, which he admires as a medical, cultural, and research center, and studying the scientific literature, he kept bumping up against what he considered to be a lack in his own basic science background. He decided to put aside surgery, temporarily at least, and come to Rockefeller where he might work with the University's advanced researchers in immunology.

Concert Dates Set

Violinist Robert Gerle and pianist Marilyn Neeley will perform music of Beethoven, Grieg, Debussy, Webern, and Ravel on October 13 at 8 P.M. in Caspary Auditorium in the first of this season's 15 Wednesday evening Rockefeller University concerts. On October 20, the New York Chamber Soloists, a piano quartet, will play music of Mozart, Schumann, Haydn, and Piston, and on November 3, the Concert Artists of New York will present selections from Beethoven, Janacek, Mozart, and Gounod.

Performing in subsequent weeks will be pianist Jacob Lateiner (November 17), flutist Julius Baker (December 1), the Janus Chorale of New York in a Christmas program (December 15), harpist Nicanor Zabaleta (January 19), tenor Robert White (February 2), the Cleveland String Quartet (February 16), the Festival Winds (March 1), the Fine Arts Quartet (March 29), tenor Paul Sperry (April 12), pianist Paul Badura-Skoda (April 19), and the Amadeus Quartet (May 10). A program devoted to the six Brandenburg Concerti of Bach will be presented on March 15.

Weiss Reports Findings on Ulcers and Behavior

Rockefeller researchers under the direction of Jay M. Weiss, assistant professor of physiological psychology, have developed some rules which seem to work in predicting whether or not rats under stress will get ulcers. They have found that if a rat gets a signal before he receives an electric shock, so that he can predict when it will occur, he will develop smaller and fewer ulcers than rats which receive the same shocks but can't predict when they will occur. If the rat can then do something to escape the shock, he will develop fewer ulcers than an animal getting the same shocks but having no control over them. The results establish, according to Dr. Weiss, that "the beneficial effect of a coping response is a highly reliable and generalizable phenomenon."

To explain how behavioral responses affect stress, Dr. Weiss offers a theory which emphasizes feedback from responses. Appropriate feedback occurs when the animal does something that results in nonstress stimuli, i.e., information that tells the animal he has taken the right course of action. As long as appropriate feedback for coping responses is forthcoming, stress is minimized. However, if the rules change, so that the feedback fails or is capricious or reversed, gastric ulceration as well as anxiety and/or depression can result. Applying his theory, Dr. Weiss was able virtually to eliminate ulcers by providing a proper feedback signal. He also found that animals able to cope with shock showed an increase of norepinephrine in the brain. (Norepinephrine depletion is suspected as a cause of depression in humans.)

Dr. Weiss presented his findings on September 5 in Washington, D.C. at the meeting of the American Psychological Association. A report was carried locally on WCBS-TV and in newspapers and on radio nationwide. A complete account of this research appears in the October issue of the *Journal of Comparative and Physiological Psychology*.

BRIEFS

Dr. Robert W. Leader, who has been serving as associate professor of comparative pathology, has accepted a position as professor and head of the department of animal diseases at the University of Connecticut. He has been with The Rockefeller University since 1965.

Professor **Edward L. Tatum**, Biochemical Genetics, received an honorary doctor of science degree from Northwestern University on June 13.

Associate Professor **Michael J. Tannenbaum**, Experimental Physics, was elected in June to the executive committee of the National Accelerator Laboratories University Users' Association.

Dr. Leo V. DiCara, associate professor of physiological psychology, resigned, effective September 1, to accept a position as professor of psychiatry and psychology at the University of Michigan. Dr. DiCara will hold the title of adjunct professor at Rockefeller.

PERSONAL MENTION

Miss **Jacqueline Lanoix**, an assistant for research in the laboratory of Dr. George E. Palade, and **Dr. John J. M. Bergeron**, a research associate in biochemistry, were married May 1.

Born, June 7, to **Vitorio Cardinale**, an accountant in Accounting Services, and his wife, Irma, formerly an assistant in Media and Glassware Service, a son, Alessandro Davide, their first child.

Miss **Louise Marion Evans**, an assistant for research, and **J. David Castle**, a graduate fellow, both of whom are associated with the laboratory of Dr. George E. Palade, were married on June 12.

Miss **Maureen Bigley**, an assistant for research in the laboratory of Dr. Attallah Kappas, was married June 12 to Robert F. Morgan, a computer operator.

Miss **Camille Starrantino**, secretary to James J. Stewart, Purchase and Supply Service, was married June 13 to Edward Renner, a sales correspondent.

Miss **Vilma Bautista**, an assistant for research in the laboratory of Dr. Norton D. Zinder, was married June 19 to Alejandro Ruperto, a chemical engineer.

Dr. Ralph M. Steinman, a postdoctoral fellow in cellular physiology and immunology, was married on June 20 to Miss Claudia Hoeffel, a social worker at Bronx Municipal Hospital.

Miss **Esmeralda Prat**, an assistant for research in the laboratory of Dr. Rollin D. Hotchkiss, was married June 26 to Lionel Party, a student at the Juilliard School of Music.

New Trustees



CHARLES A. BASSINE



EDWIN C. WHITEHEAD

Charles C. Bassine, a New York attorney and chairman of the executive committee of Arlen Realty and Development Corporation, and Edwin C. Whitehead, chairman and president of Technicon Corporation in Tarrytown, New York, have been elected to the University's board of trustees.

Mr. Bassine is a graduate of New York University and New York Law School. He is chairman of the board of overseers of Albert Einstein College of Medicine, vice president of the Long Island Jewish Medical Center, a member of the board of directors of the United Jewish Appeal, and a trustee of the Federation of Jewish Philanthropies and of Montefiore Hospital and Medical Center. In 1969, the Italian government conferred on Mr. Bassine the title of Commendatore, Star of Italian Solidarity. He also is a fellow of Brandeis University and New York University.

Mr. Whitehead, in addition to his duties at Technicon, also serves as a director of Omnidata Services, Inc. Mr. Whitehead is a governor of the United Nations Association, a member of the corporate relations committee and the board of trustees of the Institute of International Education, a trustee of New York University, and a director of the College Careers Fund of Westchester, Inc. He resides in Rye.

Miss **Janet Throop**, an assistant for research in the laboratory of Dr. William K. Estes, was married on July 3 to Joseph Sherman, a teacher.

DEATHS

June 18, Mrs. **Antonia Fousek**, 87, a former animal attendant in the laboratory of Dr. Clara J. Lynch. She served at the University from 1922 to 1944.

July 24, **Charles J. Galati**, 63, an assistant for research. Mr. Galati had been with the University since 1926.