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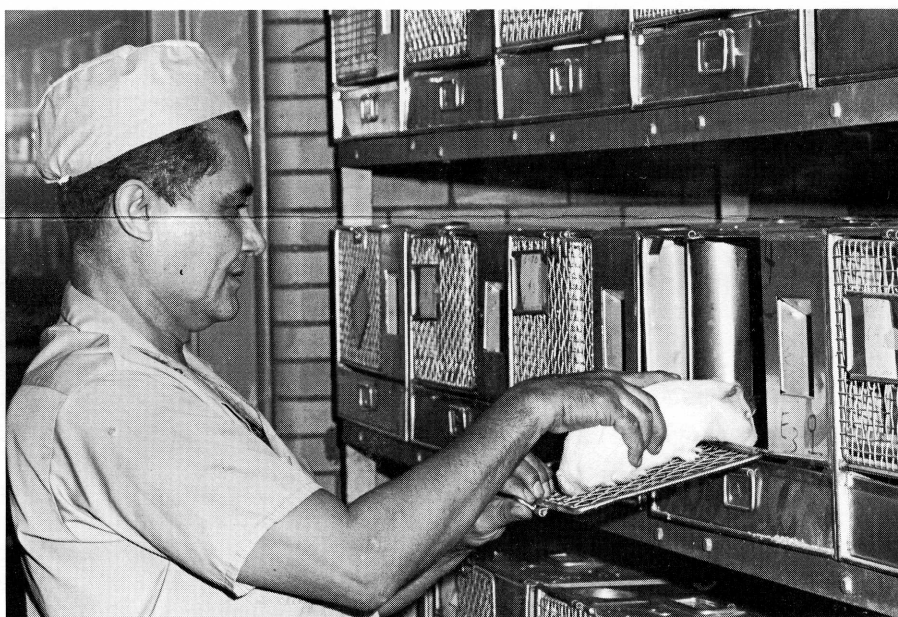
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## Animal Attendants' Services Vital to Research

Babysitting for 1,200 squeaking guinea pigs is a full-time job for Liborio Santiago. An animal attendant for 13 years in the Animal Facilities, Mr. Santiago not only feeds his charges and keeps their cages clean; he is also responsible for breeding the guinea pigs, which are a special breed devoid of streptococci pathogenic for guinea pigs. A short, stocky man, he maintains the guinea pig breeding colony efficiently; but he is bothered by the fact that some people regard such work as a matter of mere routine. However, his carefully maintained breeding records and cages bristling with tags and labels recording mating, delivery, and weaning dates refute this. So does Dr. Merrill Chase (Immunology and Microbiology), who describes Mr. Santiago as "the first person to intelligently handle the guinea pig breeding" for him since the death of Paul Morrongello, the second head of the Animal Facilities.

In all, 23 attendants and a supervisory staff of 5 care for the approximately 15,000 animals housed in the Animal Facilities. The supervisor is H. Osborn Bagg. Dr. Herbert Morton, a veterinarian, is director of Laboratory Animal Services.

The animals, which range from mice, rats, minks, and frogs, to monkeys, baboons, sheep, and two horses, arrive at the rate of 1,200 animals per week. Besides cleaning and feeding them, the



*Liborio Santiago and one of his 1,200 charges*

attendants perform special services, such as breeding, caring for special animal colonies, and handling difficult animals, like monkeys, for investigators.

Investigators consider feeding, watering, and cleaning as the biggest features of the animal attendants' work, and they rely upon the attendants to keep these factors constant. Dr. Richard Krause (Bacteriology and Immunology), who maintains a large group of rabbits at the facilities, insists that

"an investigator's work is no better than the animal care," and he regards the animal attendants as the "front line in maintaining the health of the animal colonies."

In addition to these duties, the attendants are also expected to note changes in the animals' environmental conditions, especially extreme temperature changes in the animal rooms, for the investigators. Attendants also report abnormal physical symptoms they may observe in the animals under their care. Dr. Arthur Hurvitz (Comparative Pathology) describes the animal attendants as being in the "best position to notice changes in the animals, especially in their excreta and general behavior, since they deal with the animals on a day-to-day basis." These changes, he says, can be easily noted by an attendant with proper training.

At present, some of the animal attendants receive training under the Professional Training Program of the American Association of Animal Laboratory Science. Areas of instruction include the nature of the scientific method and its relation to animal care; microbiology, for an understanding of hygiene and sanitation, disease transmission and control, and vermin as

## New Graduate Fellows

Fourteen new graduate fellows begin their studies at the University this fall. Douglas Raymond Busch has the record for long distance. He is a resident of New Zealand. The class also includes a student from Mexico, Arnulfo Zepeda Domínguez, and one from Italy, Vincenzo Enea. Following is the complete roster:

Douglas Raymond Busch, University of Canterbury and the University of New South Wales.

Wesley Loren Cosand, Ohio Wesleyan University.

Peter Gabriel D'Eustachio, Oberlin College.

James Leroy Gould, California Institute of Technology.

Vincenzo Enea, Istituto di Anatomia Comparata, University of Palermo.

Margaret Lucinda Jones, Stanford University.

Darcy Brisbane Kelley, Barnard College.

Sondra Gale Lazarowitz, Massachusetts Institute of Technology.

David Baruch Malament, Columbia University.

Anthony Shelley Meyer, University of Florida.

Abraham Zvi Snyder, Columbia University.

Michael John Sullivan, State University of New York at Buffalo.

José Rollin de la Torre-Bueno, State University of New York at Stony Brook.

Arnulfo Zepeda Domínguez, Institute of Technology, Prague.

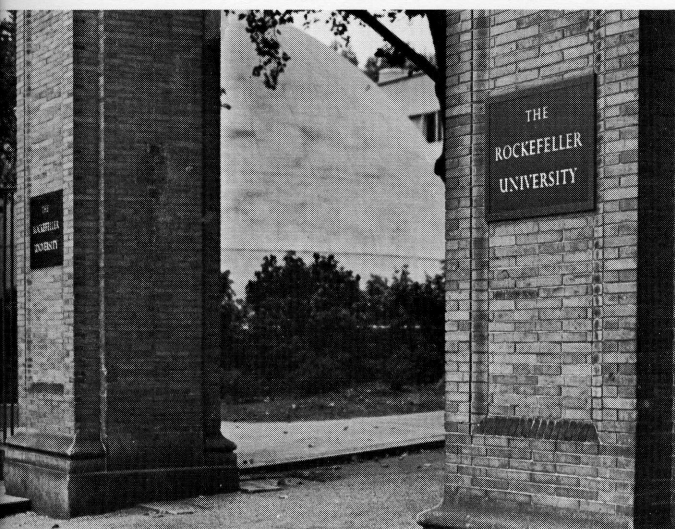
disease vectors; and genetics for an understanding of such principles as inbred strains of animals. The training is on three levels—Junior, Senior, and Master Animal Technician—with certification at each level.

A training program right at the Animal Facilities is in the planning stages now. Also, a restructuring of the attendant job levels has been planned; this will provide more job mobility and also more motivation for the attendants in their work.

The present Animal Facilities were established in 1911 in a separate building which over the years has become the Flexner Extension. In 1930, the North and 67th Street facilities, which extend from Flexner to Smith Hall, were built. These four floors and the sixth floor of Founder's Hall constitute the main facilities at present. The Animal Facilities are under the direction of Dr. Robert W. Leader (Comparative Pathology).

## Have You Noticed?

Twin signs on the 66th Street gate now officially identify THE ROCKEFELLER UNIVERSITY. At night the natural glow from the pierced brass panels is enhanced by soft lighting. The cutting of the letters was carried out by two members of the Instrument Makers' Shop: Rudolf K. Franz, shop supervisor, and John Braun, instrument maker. Frank Colosi and Stamatis Sakellaridis of Buildings and Grounds drilled and excavated the Roman brick of the gate to a depth of 12 inches. The wiring was installed by Günther Ebert. Walter H. Schuerger, assistant foreman of the Machine Shop, solved the problem of lighting the closed boxes by using three rows of 25-watt incandescent showcase lights behind the opal glass fronts. The signs were designed by Reynard Biemiller, assistant director of the University Press.



## Dobzhansky To Give Five Lectures

Professor Emeritus Theodosius Dobzhansky will present five lectures in Caspary Auditorium this fall on the theme of Man in the Light of Evolutionary Biology. Dr. Dobzhansky will offer evidence from the field of evolutionary biology which he thinks relevant to three critical problems confronting man—how to make peace with himself, how to make peace with other men, and how to make peace with nature.

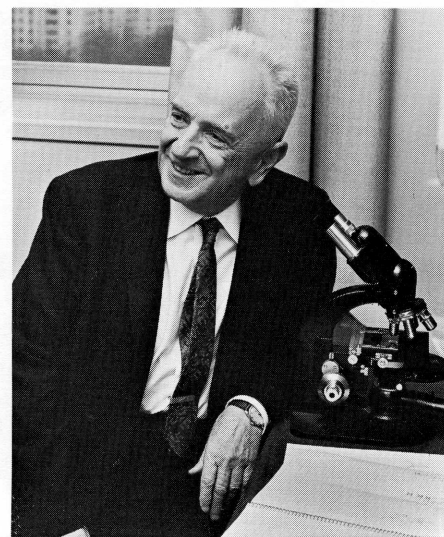
These problems, he observes, are not new, but they are of particular urgency now. Every generation has to solve them anew, in the context of its particular situation and the knowledge it possesses.

Dr. Dobzhansky has been on the University faculty since 1962. He is the author of numerous books on evolution and genetics. *Mankind Evolving: The Evolution of the Human Species* received the Anisfield-Wolf Award of the *Saturday Review*. His most recent book is *The Biology of Ultimate Concern*.

The dates and major topics to be discussed are:

October 6—Natural selection. Random and directed processes in organic evolution.

October 13—The concepts of genotype, phenotype, and norm of reaction. Genetic variation and environment. Mutation, sexual reproduction, gene recombination and interaction. Genetic load and adaptedness.



THEODOSIUS DOBZHANSKY

October 20—Malthus, Darwin, Galton, social Darwinism, eugenics and euthenics.

October 27—The ascent of man. Fossil evidence of human evolutionary development. Evolutionary uniqueness of man. Self-awareness and death awareness. Cultural transmission. Natural selection for behavioral fixity or plasticity (educability).

November 3—Twins, families, populations. Do races exist? Is intelligence inherited? A critique of some recent works on the "nature versus nurture" problem. Is mankind approaching biological twilight?

The lectures are open to the public and will begin at 4 p.m.

## Violists Will Open Concert Season

Music for the viola and viola d'amore from baroque to modern will be the feature of the season's first Rockefeller University subscription concert October 14 in Caspary Auditorium.

The duo of Walter Trampler and his wife, Karen Phillips, will play compositions for two violas and two violas d'amore, as well as for the beautiful combination of the two instruments. Anthony Newman, harpsichord, and Fortunato Arico, cello, will perform with the duo in several numbers.

One piece on the program, Max Lifchitz' *Consorte for Viola and Viola d'Amore*, was written for the duo.

Mr. Trampler won acclaim in Europe for his mastery of the two instruments before he began his American career. He has appeared at the White House, and at the Casals,

Aspen, Spoleto, and Nasu (Japan) festivals. His wife studied at Eastman School of Music and Juilliard. She has performed in Europe, the Middle East, the Soviet Union, and Canada as well as the United States. They made their debut as a duo last January in Washington, D.C.

Other concerts in the series, announced by Professor Emeritus Theodore Shedlovsky, include a production October 28 of Handel's *Acis and Galatea* by the New York Chamber Soloists. There will also be concerts by the Marlboro Trio, the Claremont and Guarneri string quartets, and the Festival Winds. Among the individual performers scheduled are Albert Fuller, harpsichordist; Nicanor Zabaleta, harpist; Paul Badura-Skoda, pianist, and Natasha Gutman, cellist.



**Dr. Scott M. Grundy**, an assistant professor in the metabolism of lipids and an associate physician, will resign October 1 to join the National Institute of Arthritis and Metabolic Diseases as director of a unit devoted to research on diseases of the American Indians. The unit is located at the Indian Health Service Hospital in Phoenix, Arizona. He will take three months of training at New York Hospital before taking up his new duties.

**Dr. Richard L. Penney**, an assistant professor of animal behavior, resigned in August to become New Zealand representative of the Office of Polar Programs of the National Science Foundation. He will spend about five months of each year in New Zealand and the remaining months in Washington, D.C.

**Dr. James Stuart Henderson**, an assistant professor of pathology, resigned this summer to accept an invitation from the University of Manitoba in Winnipeg to transfer his work there. Dr. Henderson is engaged in studies on the critical role of endotoxin during a tumor's nascence.

**Andries van Zadel**, head gardener, and his wife, **Mathilda**, who is on the pharmacy staff, enjoyed a "dream" trip this summer—their first visit to their former home in Holland since 1961. They came to this country in 1957.

Miss **Mary Anastasiou**, a nurse, was married July 5 to Michael Kounalakis.

**David Bernstein**, an assistant for research in Professor Maclyn McCarty's laboratory, was married August 3 to Kay Bowling.

Miss **Jacqueline Glasson**, assistant cashier, was married August 3 to Louis Chiappetta.

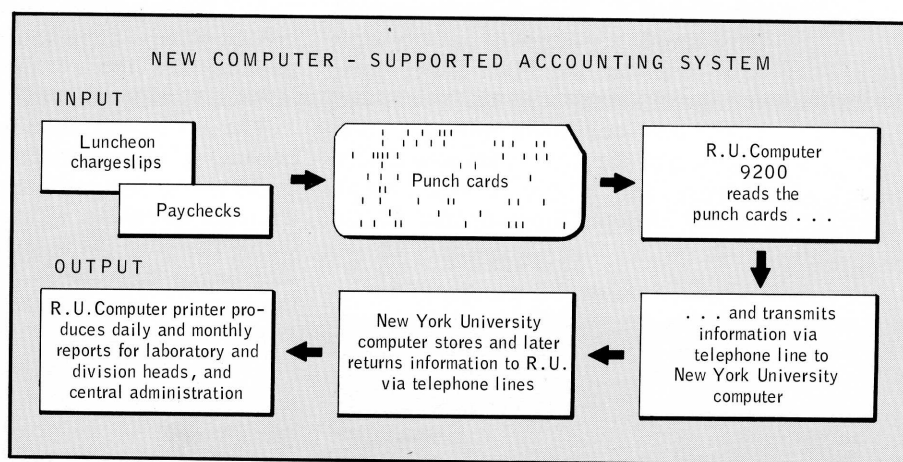
Miss **Patricia Rooke**, an assistant for research in the clinical laboratory of Dr. Martin A. Rizack, was married September 12, in Lenox, Mass., to James Theisen.

Born, July 9, to Mrs. **Venecia Urena**, a night cleaner, and her husband, Francisco, a daughter, Veronica.

Born, July 30, at New York Hospital, to **Robert Anthony**, a graduate fellow, and his wife, Joan, a daughter, Ariane Elizabeth. She is their first child.

Born, August 7, in Cologne, Germany, to **Manfred Schweiger** and his wife, **Monica**, twin daughters, Katja and Susann. Mr. and Mrs. Schweiger, who

## New System Speeds Accounting Reports



A new computer-supported accounting system is making it easier for heads of laboratories, supervisors, and the central administration to keep tabs on expenditures and check on the state of their budget. The system was conceived by David J. Lyons, director of economic planning, in cooperation with William E. McNamara, manager of accounting services, Miss O. Margery Pedersen, chief accountant, and Arthur Hubbard, deputy assistant treasurer. Almost all the staff members of Accounting, the Treasurer's Office, Budgeting, and Economic Planning helped to get the system operating. The flow chart above shows the main features of the system. Information about a transaction—a luncheon charge slip or a paycheck, for example—is transferred to a punch card by the keypunch operator in the accounting office on the second floor of Founder's Hall. The cards are fed to a Univac 9200 in the

control center on the ground floor by Miss Marie Brown and Miss Yvonne Grott. The information is then transmitted over a telephone line to a larger computer at the uptown campus of New York University. The stored information is then retrieved and returned to the control center in the form of printouts. The basic data are updated daily and computer-written "diagnostic" reports are supplied to the accounting office. Within a few days after the end of each month, laboratory heads and supervisors receive one-page summary reports for their accounts in whole dollars with some percentage computations. They are backed up by reports listing detailed transactions and open commitments. The new system also provides summary reports each month commenting on the University's current financial position, operating results, and discernible trends.

were both at the University as guest investigators, recently returned to Germany.

### DEATHS

August 4, **Salvatore Spatola**, 67, a former technician in Professor Igor Tamm's laboratory. Mr. Spatola retired November 1, 1966, after 44 years at the University. He is survived by his wife, **Edith**, who also was employed here.

August 17, **Frank Cominetti**, 36, supervisor of duplication. Mr. Cominetti had been at the University since October 15, 1956.

August 27, **Bernard J. Mattimore**, 65, a former fireman in the Power House. Mr. Mattimore retired January 30. He had worked at the University for almost 43 years.

## Concrete for Plaza Floor Collapses

Six workers suffered minor injuries September 2 when a portion of the concrete slab for the first floor of the Tower Plaza collapsed into the basement area. The workers had just poured the concrete and were beginning to smooth off the surface with mechanical trowels when the supporting form structure gave way. The workmen slid toward the bottom as the concrete flowed into the basement space. All, however, managed to scramble to safety and were released after a hospital checkup.

The area has been cleared out and the work is proceeding, but completion of the plaza is expected to be delayed two to three weeks.

## Painters Give Penthouse Roofs New Look

On a clear day this summer you may have caught a glimpse of activity aloft as a trio from the Paint Shop, using ropes, belts, and a boatswain's chair, gave a new look to the roofs and slanting sides of the penthouses atop Smith, Flexner, and Founder's Hall. Ralph Waithe, Joseph Bannon, and Valcin

Valme are experts in wielding a brush in high places. Their toughest job was painting the top of the cupola on Smith, eight stories up.

The roofs and sides of the penthouses, so characteristic of the older buildings on campus, are covered with a copper sheathing, which was painted black years ago. The new coat is an aluminized bituminous paint—reddish heather in color. Herman Richter, Paint Shop foreman, explained that this paint afforded better protection against water and other weather damage and was a good heat reflector. Aesthetically, the color is a big improvement as it blends with the weathered bricks of the buildings.

The painters probably won't have to tackle this job again for years. In the meantime, however, they'll keep in practice by touching up windows and other hard-to-reach areas. Except for Mr. Waithe, who recently left the University and is planning a move to Florida.

Aerial act: Ralph Waithe, left, and Joseph Bannon



## New Appointments and Promotions Listed

Dr. Purnell W. Choppin has been promoted to professor of virology and medicine. Other faculty promotions announced include that of David D. Sabatini to associate professor of cell biology and those of six faculty members to the rank of assistant professor. They are Branko Brdar, molecular biology; Klaus P. Eichmann, immunology; Peter N. Gillette, internal medicine; Sarah F. Leibowitz, physiological psychology; Brian H. Poole, cell biology, and John C. Sunderland, physics and neurophysiology.

Dr. Rodney L. Cool, formerly visiting professor of physics, has been appointed professor of experimental high energy physics. Dr. Cool had been associate director for high energy and chairman of the High Energy Advisory Committee at the Brookhaven National Laboratory.

Dr. Michael Cole has been appointed associate professor of ethnopsychology. New appointees to the post of assistant professor are William E. Bowers, biochemical cytology; John T. Cannon, mathematical physics; James A. Lake, biological macromolecular structure; George N. Reeke, Jr., protein crystallography, and Paul H. Schreiber, lipid metabolism.

Recently appointed visiting profes-

sors are Dr. Eivind Hiis Hauge of the Norges Tekniske Høgskole, Trondheim, Norway, and a senior foreign scientist fellow of the National Science Foundation; Dr. Kojiro Matsuda, professor of physiology, Meisei University, Tokyo, and Dr. Jerrold Meinwald, professor of chemistry, Cornell University.

## Grievance Procedure

The University has established a formal grievance procedure for all non-faculty employees. The four-step procedure, which went into effect September 1, applies to any grievances arising over the interpretation or application of personnel policies, employee benefits, and other matters relating to the terms and conditions of employment. Copies have been distributed to all faculty and staff members.

In an accompanying letter, President Seitz stated that, in setting up the new procedure, "the University seeks to foster a closer relationship with its employees by emphasizing fair and consistent treatment for all." He expressed the hope that "this emphasis will offer the greatest degree of job satisfaction and a deeper recognition of human dignity."

## BRIEFS

Professor **Christian de Duve**, Biochemical Cytology, in June received an honorary doctor's degree from the University of Leiden.

Professor **Rollin D. Hotchkiss**, Genetics, is spending the autumn term as a visiting fellow-commoner at Corpus Christi College, Cambridge, England. His duties are to engage in discussions and consult with graduate students of all departments. From August 21 to September 2, he and his wife, **Dr. Magda Gabor Hotchkiss**, research associate, taught at an international summer school and symposium on the uptake of informative molecules by living cells held at the Center for Study of Nuclear Energy, Mol, Belgium.

**Dr. George Némethy**, Physical Chemistry, is spending September and October in Rome as a visiting lecturer at the Istituto Superiore di Sanità.

Professor **George E. Uhlenbeck**, Theoretical Physics, in June was awarded the Lorentz Medal by the Royal Netherlands Academy of Sciences.

Professor **Hao Wang**, Mathematics and Philosophy, was recently elected a foreign fellow of the British Academy.

**Dr. F. Peter Woodford**, a University affiliate, has been appointed managing editor of the *Proceedings of the National Academy of Sciences, U.S.A.* A lipid chemist, Dr. Woodford recently left research to become director of the University's Editor Training Program. He will continue the program this year while managing the *Proceedings* in Washington.

Two members of the Graphic Services staff won awards for photographs entered in a salon competition at a joint meeting of the Biological Photographic Association of Medical Artists and the Council on Medical Television held in Houston, Texas, in August. **Henrik Boudakian** won the second award in the clinical category, and **Lewis Koster** received an honorable mention in photomicrography.

*news and notes* is published monthly from September to June. Contributions are welcome and may be sent to *news and notes*, Box 194, The Rockefeller University, N.Y., N.Y. 10021 or phone ext. 1166 or ext. 1217.

### PHOTOGRAPHS

Page 1, Eduard Kloesman; page 4, Henrik Boudakian.