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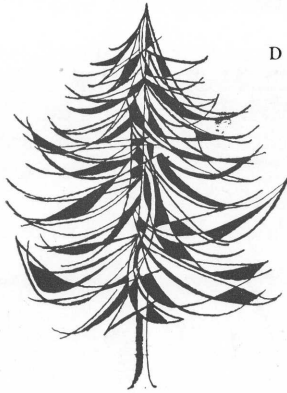
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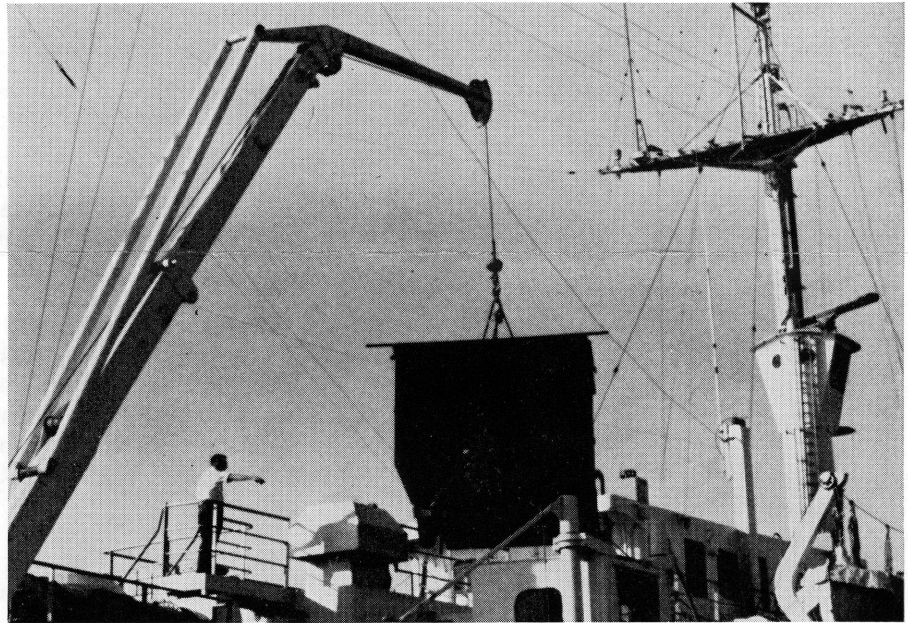


Dr. Dole Will Give Christmas Lectures

Professor Vincent P. Dole will deliver this year's Christmas lecture series for high school students on December 27 and 28. His subject will be Drug Addiction.

The students, several hundred of them, are selected by their teachers for attendance at the afternoon lectures in Caspary Auditorium; the lectures are followed by discussion periods. The series was begun in 1959 by Professor Alfred E. Mirsky, who has continued to be in charge of the arrangements each year.

Dr. Dole and his wife, Dr. Marie Nyswander, were the founders of the methadone maintenance method of treatment for heroin addicts.



Dr. Griffin directs placement of radar equipment on the research ship.

Bird Watch on the High Seas

It takes modern science, equipped with radar, computers, and other technological tools, to add anything significant to what every school child "knows"—that birds fly south in the autumn. The hows and whys are still largely unknown, especially when it comes to small land birds that fly continuously for three days or more over the open ocean.

For 21 days, from September 27 to October 18, scientists from the University, the New York Zoological Society, and the Woods Hole Oceanographic Institution covered some three thousand miles of ocean, from New England to south of Bermuda and back, over a wide course that took them more than a thousand miles from the mainland, in the first sustained, completely water-based bird watch in this part of the world. They tracked land birds ranging from tiny warblers to large blue herons to learn what direction they take over the western North Atlantic. It was also the first time such sightings could be coordinated with simultaneous radar echoes from birds

being picked up at land stations on Cape Cod, on Wallops Island, Virginia, on Bermuda, and on Antigua.

The voyage was made aboard the 210 foot Woods Hole research vessel, Atlantis II. Dr. John M. Teal, with a group from Woods Hole, served as chief scientist working in collaboration with Professor Donald R. Griffin of Rockefeller, who has been studying bird migration for 33 years. With him was his wife, Jocelyn Crane Griffin, an ethologist with the New York Zoological Society, whose own special interest during this trip was the behavior of deep water fish. The University's team also included Affiliate Lawrence Eisenberg, cohead of the laboratories of electronics and computer sciences, Gregory Tomoian, senior electronic technician, José Torre-Bueno, a graduate fellow in Dr. Griffin's lab, his wife, Susan Torre-Bueno, and Mrs. Alethea Michie, both of whom are research assistants with Dr. Griffin. Working along with them was Kent Leavitt of Millbrook, New York, a friend of the University and of Dr.

CHRISTMAS PARTIES

Christmas at the University will be celebrated in its traditional manner. The children's party, for the children of all members of the campus community, will be held on Thursday, December 16 at 6 P.M. in Welch Hall, with entertainment planned and Santa Claus in attendance.

The party for all University faculty, students, and personnel will take place the following day, Friday, December 17, from 3 to 5 P.M. with carol singing in the library, and with Christmas music played by a string quartet in Welch Hall.

The Christmas Ball, to which everyone on campus is invited, will be held Saturday, December 18, from 9 P.M. to 1 A.M., also in Welch Hall. Lester Lanin's orchestra will play for dancing and dress is optional. Tickets, at six dollars per couple, are on sale at a number of prominent places around the University.

Griffin, and, for the first five days, graduate fellow Ronald Larkin.

Although the Woods Hole scientists were busy collecting sea-life specimens, they participated equally in the migration studies which involved three eight-hour shifts of three or four people per watch in order to keep a round-the-clock vigil. Each team had someone in the radar cab manipulating controls and scanning to pick up echoes, and two or three others observing visually and making manual or tape-recorded notes on what they spotted and where. In addition, helium balloons with radar targets were sent up every few hours to measure the speed and direction of the wind at the altitudes where the birds were flying. (A bird that appears from the ground to be travelling at 2 miles per hour may be going at 20 miles per hour against an 18 mile per hour headwind.) Launching a four foot balloon from a ship in high winds is, according to Dr. Griffin, "tricky."

Essential to the success of the mission was the good working condition of the 20-year-old, pretransistor radar equipment. Usually used for mobile field work, the one ton "antique" consists of a four foot steel cube mounted on a trailer normally pulled by a light truck. For the Bermuda trip, the entire trailer, minus its wheels, but including a six-by-eight-foot plywood cabin to shelter the operators, was hoisted onto the ship and welded to the deck. Thanks to the tender ministrations of Dr. Eisenberg and Mr. Tomoian, there was only one short breakdown. (Thanks to modern stabilizing drugs, landlubber Eisenberg suffered no sea-induced breakdown himself, a problem he worried about before the journey's start.) To prevent corrosion from sea water, they constructed ducts to circulate conditioned air from a ship's cabin through the radar cube.

Commenting on the preliminary findings of the work, Dr. Griffin states: "Because land-based radars cannot detect birds more than 100 miles off shore, and because Navy radars are seldom used to look for birds, this trip produced the first real proof that land birds migrate over the open ocean from North America directly to the Caribbean. This had previously been inferred from indirect evidence but many doubts had been expressed that sparrows and warblers which fly only about 20 miles per hour could keep flying for the two or three days necessary to cross the whole western North Atlantic."

Orange Couches and Eskimo Pipes

Patricia Berlin describes her job as doing all she can "to maintain and enhance all areas of the University." As assistant to the president for interior design, she helps scientists select the wall colors and furnishings for their labs and offices, as she has been doing most recently for those who will soon move into the Tower Building. She sees to it that the University's apartments for visiting scientists in Sutton Terrace are well equipped and comfortable. She decorated the conversation pit area of the Tower, and some of her own oil paintings, interpretations of nerve cells and diseased bone tissues, hang in the lobby of South Lab. (Her canvasses have been shown at the Smithsonian Institution and the Albany Museum of Natural History.)

In addition to the exhibition of Eskimo artifacts currently on display in Caspary Gallery, Mrs. Berlin has selected and mounted exhibitions of Egyptian, West African, Tibetan, Asian, Mexican, Indonesian, New Guinea, and Northwest Coast Indian art.

In her own home, Pat Berlin tends toward furnishings that are modern, simple, and utilitarian—undoubtedly a sensible choice for a woman who has

raised four sons, Geoffrey, 24, Dennis, 22, Michael, 19, and Alexander, 11. Mrs. Berlin was married to physicist Theodore Berlin, who was a professor at Rockefeller at the time of his death in 1962. Three years ago, she married Robert Mitchell, a writer.



Patricia Berlin holds a carved ivory ceremonial pipe, one of more than 80 objects of Eskimo craft currently on exhibition in Caspary Gallery. The pieces were lent by The Museum of the American Indian, Heye Foundation.

BRIEFS

In a talk which dealt with the factors controlling the movement and storage of cholesterol in the body, Professor **Edward H. Ahrens, Jr.**, Metabolism of Lipids, stated that current tests that measure the concentration of cholesterol in a patient's blood sample are only "weakly indicative" of the body's total cholesterol content. "In terms of the chain of events leading to atherosclerosis, it may be more important to know the degree of saturation of tissue stores with cholesterol than to know the 'head of pressure' of plasma lipoprotein cholesterol." He presented his views at the Fourth International Symposium on Drugs Affecting Lipid Metabolism, held September 8-11 in Philadelphia.

William Hertwig, supervisor of the laundry, was guest speaker at a meeting of the Westchester and Connecticut Laundry Managers' Association, held September 9 at West Point. Mr. Hertwig is vice president of the Metro-

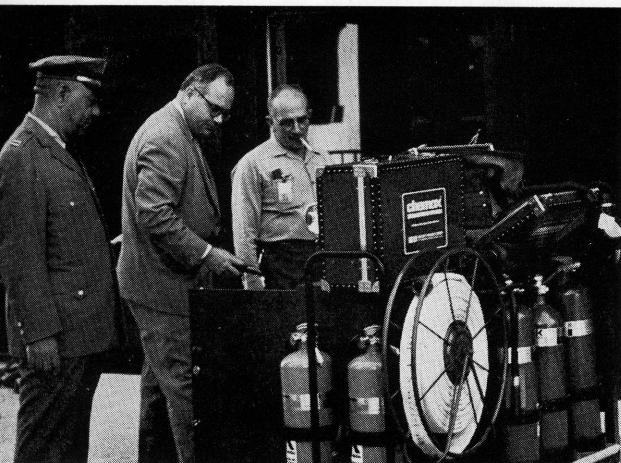
politan Institutional Managers Association and district director of the New York and Connecticut association.

Professor **Vincent P. Dole**, Physiology and Metabolism, was the first speaker in a series sponsored by the Oklahoma Medical Research Foundation. He lectured at the University of Oklahoma Medical Center in Oklahoma City on October 5 on Treatment of Heroin Addiction.

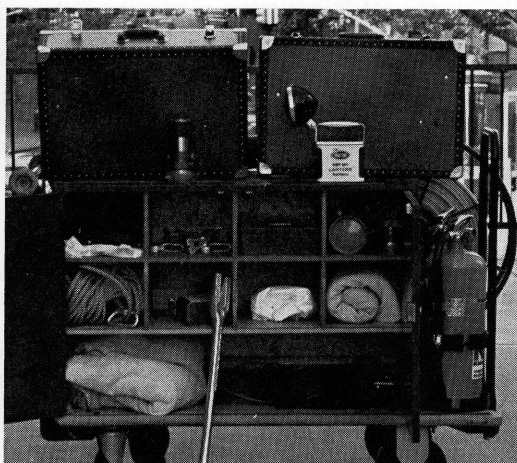
Professor **Zanvil A. Cohn**, Cellular Physiology and Immunology, delivered the Charlotte B. Ward Lecture in Hematology at the Children's Cancer Research Foundation of the Children's Hospital Medical Center, Boston, on October 7. He spoke on The Functions of Monocytes and Macrophages.

Associate Professor **Paul F. Cranefield**, Physiology, has been appointed to the editorial board of *Circulation*, a publication of the American Heart Association. The appointment is effective as of January 1, 1972.

New Emergency Wagons



Captain Robert L. Davis (left), Warren Munroe, and Walter H. Schuerger examine new safety carts.



As part of an ongoing program for upgrading safety and security procedures and equipment on campus, Warren Munroe, manager of safety and security, advises that two new emergency wagons are now available for rescue work and for dealing with small fires, explosions, and chemical accidents. Designed by Mr. Munroe and built by the Cabinetmakers' Shop for the special needs of the University, these wagons are unique in the variety of equipment carried. It is possible for trained personnel to move them to almost any part of the campus. Each cart carries emergency lights and heavy multipurpose fire extinguishers using dry chemicals capable of dealing with any type of fire on campus (wood, paper, electrical, solvents and petroleum products, and powdered metals). They also have two oxygen-generating mask units, asbestos gloves and blankets, a first-aid kit, fog nozzles, special hose and fittings, rope, fire axes, wrenches and tools, a supply of 14 foot polyethylene sheeting to cover delicate instruments, and a supply of a clay which will act as a blotter and can absorb more than its own weight of liquid. One wagon has been placed in the Tower Building and the other in the basement of Founder's Hall. Two older wagons are being rebuilt and refitted and will be located in Smith Hall and the Hospital. In addition, 16 other air and oxygen masks have been spotted in strategic locations around the campus for emergency use.

If an emergency arises, Mr. Munroe asks that extension 1515, Office of Buildings and Grounds, be called and help will be dispatched. After hours, calls should be made to the security

guard on duty at the Founder's Hall desk, extension 1248. However, in all cases of fire, pull the alarm in your hallway first, then telephone. All members of the various University shops, the porters, and the security force are being trained to handle the equipment on the carts.

Mr. Munroe welcomes any suggestions for improvements in the carts.

IN PRINT

In an article titled, "The Role of Science at the Local Level," Dr. **Detlev W. Bronk** exhorts scientists in particular and society in general to become more effectively involved in bettering the conditions of our lives through the agencies of state and city government. The piece appears in *Science for Society*, the Proceedings of The National Conference on Goals, Policies and Programs of Federal, State and Local Science Agencies, which was held in Atlanta, Georgia in October, 1970 under the sponsorship of the National Science Foundation and the Georgia Science and Technology Commission. The volume was published by the Georgia Science and Technology Commission and edited by John E. Mock. Dr. Bronk was a member of the steering committee of the conference. Another major article by Dr. Bronk, "The Nature of Science and its Humane Values," is included in the volume of annual Franklin Lectures given at Auburn University, published by the University of Alabama Press. In it, he discusses the uses of science over the ages, the causes of the growing disdain of science, and the scientist's true role in society.

"A Good Year"

The spirit of the President's message in the University's Annual Report for 1970-71, published this month, is one of optimism despite the currently uncertain national climate for science. This was the year in which the University launched its first major development program. President Seitz expresses gratification at the program's good beginning, with heartening support already coming in from new private sources. He also notes that this year the revenue from grants reached an all-time high. It was the first year in which grants for research from both public and private sources exceeded expenditures from the University's own funds. He expresses deep appreciation to the University community as a whole for its "excellent cooperation" and "many thoughtful suggestions" in regard to holding the line on operational costs.

Dr. Seitz also reaffirms the high priority of postdoctoral research training at the University. He writes: "Despite the current trend to cut back on Ph.D programs, we will maintain approximately the present number of graduate students, but increased attention is being given to providing opportunities for especially gifted young investigators to carry out long-term, independent work. In this way, the University will be helping to narrow the gap caused by shrinking federal support for younger scientists."

In summarizing his remarks, President Seitz calls 1970-71 "a good year" for Rockefeller. "I say this despite my continuing concern at the general situation of science and some misgivings at the increasing emphasis being placed in Washington upon too narrowly mission-oriented research. Perhaps the greatest service we can perform at this time is to stay on course and continue to be guided by the collective experience of this institution in fundamental scientific investigations."

MASS SPECTROMETRY SERVICE

Mass spectrometry service is now available on campus for University researchers. Professor Frank H. Field, Physical Chemistry, announced recently that the Mass Spectrometry Laboratory would accept samples for analysis. The equipment, located in Room 301, Smith Hall, consists of a DuPont-CEC 21-492 mass spectrometer to which a Varian 1440 gas chromatograph is directly coupled.

Sigma Xi Elections

At its annual meeting November 1, The Rockefeller University Chapter of the Society of the Sigma Xi elected or promoted 12 persons to full membership. Four others were elected associate members.

John D. Gregory was installed as president. New officers elected were Jules Hirsch, vice president and president elect, James M. Manning, secretary, Richard W. Compans, treasurer, Philip A. D'Alesandro, director (for two years), and Martha Fedorko, member of the admissions committee (for two years).

Those elected or promoted to full membership are Cal K. Cohn, David Forman, Mary Rita Greenwood, Alice F. Healy, Susan G. Langreth, Sondra G. Lazarowitz, Anthony S. Meyer, Clark F. Millette, Glenn L. Paulson, Peter R. Sinclair, Judith S. Stern, and Vratislav Zbuzek.

The new associate members are Peter D'Eustachio, James Bruce Healy, Darcy B. Kelley, and John M. Kincaid.

On November 23, the chapter held its first dinner and lecture meeting of the academic year. Joseph Veach Noble, director of the Museum of the City of New York and formerly vice director for administration of the Metropolitan Museum of Art, spoke on the subject of Scientific Methods of Detecting Art Forgeries.

PERSONAL MENTION

Marjorie Anne Offinger, an assistant for research in the laboratory of Dr. James S. Murphy, was married October 9 to Dr. Elliot Davidoff, an intern at Lenox Hill Hospital.

Graduate fellows **Janet MacIver**, who is with the laboratory of Professors H. Keffer Hartline and Floyd Ratliff, and **James K. Baker**, who is with Professor Mark Kac, were married October 10.

Born, October 23, to **John J. O'Donnell**, director of personnel, and his wife, Bernadette, a son, Neil Thomas, their third child.

Born, October 30, to **Veselin Rajovic**, assistant gardener, and his wife, Rosanda, a daughter, Vera, their first child.

DEATHS

October 30, Mrs. **Daisy Boles**, 53, a ward helper in the Hospital. She had been with the University since 1958.

Alumi Near And Far

Where are the graduates of last June? In institutes and universities from New Haven to Seattle and from England to The Netherlands and France, reports Marian E. Lucius, registrar. In addition, there are eight promotions of alumni of earlier classes and one new appointment to report.

Those promoted are:

Wyatt W. Anderson (1967), to associate professor, Department of Biology, Yale University

Robert B. Barlow, Jr. (1967), to associate professor of sensory communication, Syracuse University

Brian A. Curtis (1963), to associate professor, Department of Physiology, Tufts University School of Medicine

Bertil Hille (1967), to associate professor, Department of Physiology and Biophysics, University of Washington

Lewis J. Kleinsmith (1968), to associate professor, Department of Zoology, University of Michigan

Harvey F. Lodish (1966), to associate professor, Department of Biology, Massachusetts Institute of Technology

Lee D. Peachey (1959), to professor and chairman, Department of Biology, and professor, Department of Biochemistry, University of Pennsylvania School of Medicine

Joseph W. Vanable, Jr. (1962), to associate professor, Department of Biological Sciences, Purdue University

The new appointment is that of Eric H. Davidson (1963), to associate professor, Division of Biology, California Institute of Technology.

Last June's graduates and their present locations are:

Andrew E. Balber, United States Public Health Service postdoctoral fellow, Department of Microbiology, Yale University Medical School

William H. Beers, Rockefeller Foundation special fellow, Department of Biophysics and Physiology, University of Illinois

Stephen Blaha, research associate, Physics Department, University of Washington

Richard S. Bockman, associate and fellow in endocrinology, Sloan-Kettering Institute for Cancer Research

William L. R. Cruce, assistant professor, Department of Anatomy and Embryology, University of Nijmegen, The Netherlands

Saimon Gordon, assistant professor, The Rockefeller University

Paul D. Gottlieb, special fellow, Biochemistry Department, Stanford University School of Medicine

Gretchen K. Hascall, research assistant, Department of Oral Biology, University of Michigan School of Dentistry

Martin L. Jerry, assistant professor of medicine, McGill University; assistant

Don't Throw It Away!

Small and powerful, mercury batteries are now being used more and more frequently in cameras, portable radios, flashlights, hearing aids, and other electrical devices. When they're used up, however, they present a pollution problem. If the batteries are incinerated, the mercury escapes into the atmosphere as vapor. Dumped or buried, the batteries pop their casings and the mercury percolates into the ground water. Warren Munroe, manager of safety and security, has arranged with a mercury battery manufacturer for the recycling of used batteries. He requests that members of the campus community dump their discards in a box provided by Purchase and Supply Service, Room A3, Flexner Hall.

Look for this recycling symbol.



physician, Department of Medicine, Royal Victoria Hospital; research assistant, McGill University Clinic, Royal Victoria Hospital

Henry A. Lester, postdoctoral fellow, Département de Biologie Moléculaire, Institut Pasteur, Paris

Linda B. Lyons, postdoctoral fellow, New York University School of Medicine

Christian Mathot, manager, Immunohematology Production, Pfizer Diagnostics, a division of Pfizer, Inc

Anne G. Mosser, postdoctoral trainee, Pathology Department, Health Sciences Research Center, School of Basic Health Sciences, State University of New York at Stony Brook

Glenn L. Paulson, executive director, Scientists' Committee for Public Information, and staff scientist, Natural Resources Defense Council

Rollin C. Richmond, assistant professor, Department of Zoology, Indiana University

Seth L. Schor, American Cancer Society postdoctoral fellow, Moffett Laboratories, Princeton University

Robert M. Shapley, Helen Hay Whitney Foundation fellow, Physiological Laboratory, University of Cambridge, England

Phyllis R. Strauss, research fellow, Department of Physiology, Harvard Medical School

Hwaling H. Szu, research associate, The Rockefeller University

Zena Werb, Medical Research Council of Canada fellow, Strangeways Research Laboratory, Cambridge, England

David D. Wood, Helen Hay Whitney Foundation fellow, Department of Pathology, Harvard Medical School.

Richard E. Zigmond, postdoctoral fellow, The Rockefeller University