

Winter 1969

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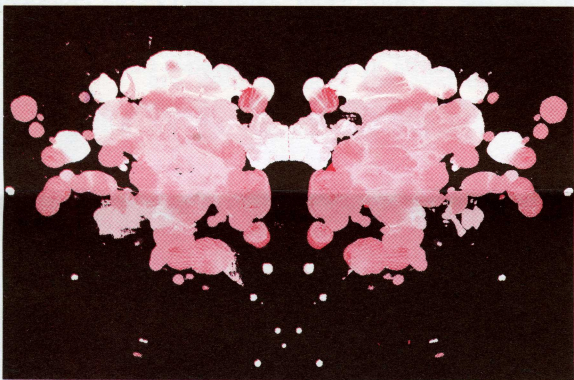
A SEASON FOR ALL MEN

Set the time machine at Winter Solstice. Whirl the kaleidoscopic dial. See the continuum of reverence and revelry which marks the season down the ages.

Stop the picture at the time of Julius Caesar. On the seventeenth of December, the ancient Romans are lighting tapers in the temple of Saturn to mark the beginning of Saturnalia. It is carnival time once more. Time, too, to kindle a new sacred fire.

Spin the knob again, and see that sacred fire reflected in the Yule log of European tribesmen, in Menorah candles glowing in countless households during Chanukah, in centuries of Christmas candles, in the new fire kindled by ancient Mexicans at the end of every fifty-two years, and in the solstice ceremonial fires of the Druids.

Set the time dial for the first week of December, 1969. Zoom in on Rockefeller University. Small figures emerge from The Children's School, intent on delivering the cards they have fashioned for each of the Uni-



Christmas greeting, The Children's School

versity's thirty-seven offices—butterfly prints, expressionist drawings in acrylic paint on oak tag, and folk art dolls on beaver board.

Nudge the dial backward a notch or so to December 13, the night of the Christmas Benefit Ball staged by first-year Graduate Fellows. Staff, students, faculty, and administrators pour into Founder's Hall to dance to Peter Duchin's music. Gaiety is unconfined—and the spirit of the occasion will linger on, for the proceeds will estab-

lish a scholarship fund open to children of University personnel.

Next, turn forward to December 17. There are hundreds of children now, with their parents—all children of University personnel—in the faculty dining room in Welch Hall. Balloons are everywhere, and a tree, and a Balloon Man, and Santa Claus, and a nice man at the piano playing songs for all to sing, and a jolly emcee to keep things going and to laugh at.

The next afternoon there is more laughter and music in the Faculty dining room—and wassail as well—but no children, for a giant "office party" for all University personnel is under way there and in the Library.

There is no time machine now, nor need for one. Memories of childhood holidays flash through the minds of many in our campus community, memories of distant homelands still vivid amid the gaiety of an American yuletide . . . happy days of Chanukah in a small Russian village . . . waking early on January 6 in Puerto Rico to see what gifts the Three Kings have left in the grass-lined box under the bed . . . Christmas and summer vacation coming together in Costa Rica, with outings in the woods, street fiestas, firecrackers, and bullfights, or bullplay, for the bull is never killed and everyone joins in the fun . . . St. Nicholas Day, December 19, in the Ukraine, a day for gift-giving and the Good Saint in black priestly vestments, followed everywhere by a devil with a tail and horns . . . in Barbados, high hopes as Christmas Day dawns that your entry will win a prize at the Exhibition and, after Christmas, Boxing Day with tub races, street processions, and Calypso songs to the accompaniment of drums and flutes . . . early December in Bavaria with the excitement each day of opening a window in the Advent Calendar and finding a small present, the arrival, on the sixth, of St. Nicholas, attired like a bishop, and grim Knight Rupprecht, garbed in black and rattling chains to frighten naughty children, and then the climactic Eve with gifts, the crèche, the Christmas tree with candles, and

a hushed lantern-lit procession to midnight Mass . . .

Timeless traditions . . . some lost but not forgotten in a new land . . . some preserved and shared with new friends . . . all represented in the generous spirit reaffirmed at this moment at Rockefeller University, an academic United Nations, where no culture is alien. In establishing its own tradition, the University embraces many traditions, at once personal and universal.

A special holiday greeting from *news and notes* to those whose contributions are reflected in the story above: Robert Channel, Joann L. Cooper, Ronald A. Cox, Guenther Ebert, Pedro Garay, Alexander Kulynych, Lila Jane Magie, Samuel Margolin, Sidney Nicholson, August C. Roeckl, Johann Schweinsteiger, and Josephine Smith.

THE PAD AND THE TUBE

Rockefeller University's newest neighbor—Metroport East 60th—was a year old November 14 and, thanks to strictly observed noise-abatement procedures, has thus far escaped any major complaints. Located on the lip of the East River, diagonally across the Drive from the University's new Tower Building, the three landing pads of the heliport, operated by Pan American Airways, are used extensively by businessmen, news media, city and state officials, and others who charter 'copters for quick trips within a 150-mile radius of the city.

Since January, helicopter arrivals and departures have risen from a total of approximately 200 to about 1,800 a month. The passenger count ("in" and "out") has risen from 180 a month to more than 1,700. August was the peak period with 2,024 'copter "movements" and 1,972 passengers logged.

A spot check of Rockefeller personnel indicates that the daily passage of whirlbirds over the river is becoming an accepted sound and sight in a traffic complex that includes waterborne commerce and a parallel parade of motor vehicles on the Drive. Safety precautions and noise-abatement procedures keep 99 percent of the aerial activity over the water. Pilots are required to make all approaches from

the northeast, proceeding down the east channel and turning right just south of the lift bridge for the final leg across Welfare Island and the west channel to the heliport.

The metroport, which operates seven days a week from 8 a.m. to 9 p.m., is 280 feet long by 90 feet wide. The pads are restricted to single-engine helicopters. Pan Am does not provide scheduled flight service. Its responsibility is to maintain and supervise loading, parking, and fueling facilities.

* * *

Formal start of another transportation project that has been the target of much opposition was signaled Thanksgiving week by a series of muffled underwater explosions in the East River. Wearing hard hats, Mayor Lindsay and Governor Rockefeller manned detonators in windswept Queensboro Park and set off charges that marked the first step in the construction of a \$69.5-million double-decker tube of concrete and steel plates through which both subway and Long Island Rail Road trains will roar under the river.

The controversial tunnel will be 3,140 feet long and will extend from 41st Avenue in Long Island City to 63rd Street in Manhattan, where it will be linked with the projected 2nd Avenue subway line. Welfare Island, site of a \$200-million development project, will have its own station.

According to the Transit Authority, the tunnel should be ready in 1973, but the first trains probably won't run until 1976. Meanwhile, University personnel will have a front-line view of the above-water action in a project whose impact on University activities is still highly debatable.

SOVIET PHYSICIST

Dr. Peter L. Kapitza, one of the Soviet Union's most distinguished scientists, was the guest of President Seitz for a week in October. It was Dr. and Mrs. Kapitza's first visit to the United States, and the University was their last stop in a month-long coast-to-coast tour, before returning to Moscow October 21. Dr. Kapitza, who is 75, thoroughly enjoyed his stay in New York, which included a Philharmonic concert, trips to three art museums, and lunch in Central Park.

THE VIEW FROM THE POWER HOUSE

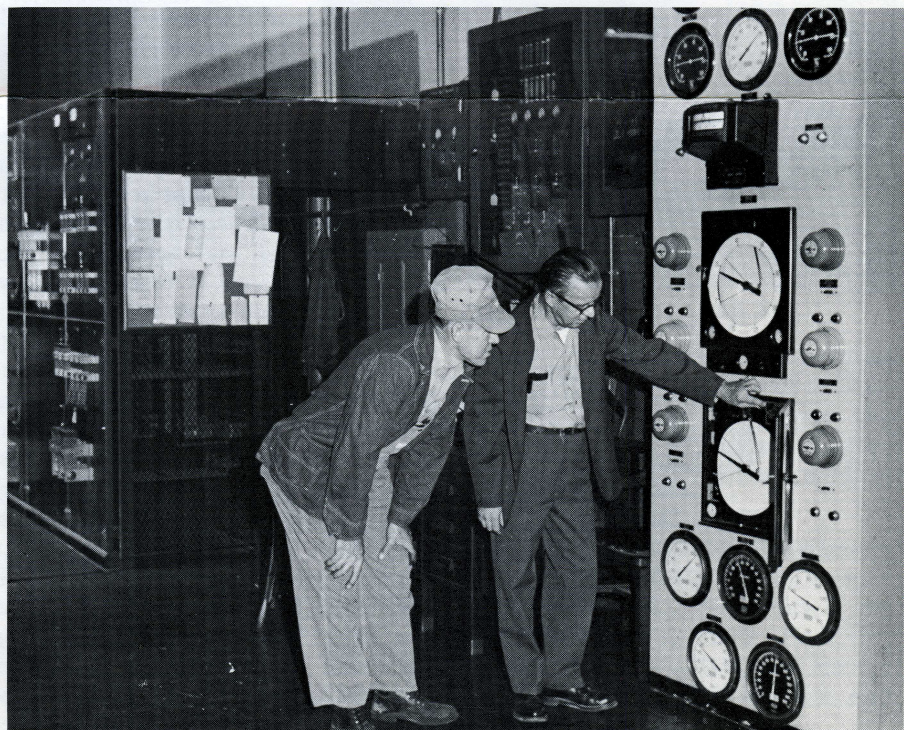
George Karda spends most of his working hours on the lower levels of the University, but he can gauge the change and growth going on in the laboratories and offices "upstairs" by oil consumption figures, steam pressure readings, and electrical loads. Except for ten frustrating months as an office boy, all of Karda's 45 years at the University have been spent on the Power House staff, which supplies the heat, refrigeration, air conditioning, water, and direct current electricity for our campus community. When Karda was put on the payroll, at age 15, the Power House served six buildings and about 300 people. Today the Power House, beneath the hospital and fronting on the river, is linked by a maze of wires, pipes, and service tunnels to sixteen buildings occupied by more than 1,300 persons. And the former stock boy, who was born ten blocks from the University on 76th Street, is chief engineer of a crew of 21 men, averaging 15 years of service.

Karda can see the past in the present just by walking from his newly-painted and relatively quiet office down a steep flight of stairs into the

insistent hum and heat of the first level of the power house where generators installed in 1904 and 1915 are still producing the direct current that runs the elevators and other electrical equipment in older buildings like Flexner and Founder's Hall. These engines are vintage machines with the patina of museum pieces; new parts must be made to order. Yet they still earn their keep. And in emergencies, such as the Great Blackout, that "house" current can be a lifesaver.

Alternating current was first brought into the grounds about 1930 by a special line from Third Avenue. Today, use of AC, supplied by Consolidated Edison, is averaging about 2,300 kilowatts per hour, enough to supply 3,300 average one-family households for a month. Peak DC demand runs between 300 and 400 per hour. The University's bill for AC power presently is about \$200,000 a year, reflecting not only the growth in all activities but the increasing sophistication of the equipment employed in scientific research. Newest evidence of AC ascendancy and University growth is the new transformer vault and cable chamber

Power Panel: Chief Karda, at right, with Assistant Chief Tarkowski



WHO "POWERS" THE POWER HOUSE?

George Karda, Chief Engineer
Henry Tarkowski, Asst. Chief Engineer

Watch Engineers

James Burns
Cornelis Leeftang
Edward Hoctor
James Mortko

Oilers

Eric Gollop
Gabriel Ellick
Stanislaw Mateja
Herbert Neil
Oswald Robinson

Firemen

Bernard Mattimore
Felino Santos
Franklin Santos
Gleaster Trotman

Utility Men

Alanzo Campbell
John Cunnane
Gerald Davis
Pedro de Guzman
Jerone Mathews
Louis Perez

Porter

Orazio Longo

in the main gate area (*news and notes*, no. 1), housing switches and step-up transformers that will double our electrical service capacity.

The refrigeration equipment also reflects changing times. The original system had a capacity of only 75 tons. It was replaced in 1950. Today three units with a total capacity of 320 tons are used to meet the ever-increasing need for refrigeration. The Power House crew uses a complicated combination of AC, DC, and steam power to run the various engines and units. Karda credits to this "backup" system the fact that the University has not experienced a complete power shut-down in half a century.

The air-conditioning system is a more recent addition. Caspary Hall and Auditorium and Abby Aldrich Rockefeller Hall were the first to be hooked up. The University's central system can supply a maximum of 700 tons (equivalent to what you would get by melting 700 tons of ice in 24 hours). Where there is centrally operated air conditioning, it now runs around the clock.

As for heating and hot water, since 1915 when four hand-fired coal boilers were installed, the Power House has fed steam through the pipes with every combination of coal and oil burners imaginable. ("I've done a little coal

heaving myself," says Karda.) In 1955, three new oil burners were installed, each with a maximum capacity of 30,000 pounds of steam per hour. These monsters consume 1,900,000 gallons of oil a year. In winter, with two boilers on, the amount of steam supplied per hour averages out to almost 25,000 pounds per boiler. At that rate, to produce the steam needed in a single day, the Power House uses more than 86,000 gallons of water—enough to fill a pool 25 feet wide and 75 long to a depth of about six feet.

Karda and his crew are in the water business in a big way. But it's hard to tell exactly what the daily consumption is, for several of the mains are not metered. From the two mains feeding directly into the Power House, 300,000 gallons are consumed daily. At least 25,000 gallons more are drawn each day from mains leading directly into Sophie Fricke Hall and South Laboratory.

George Karda became chief of all this in 1939. He shows no signs of slowing down. Right now he is very much concerned with the new Tower Building. Although steam, electricity, water, and gas for this structure will be supplied separately by outside concerns, it's already obvious that Chief Engineer Karda and his crew will have plenty of opportunity to apply their hard-won skills to the maintenance of the greatest single concentration of equipment on the campus.

extracurricular

ANDREA PALESTRINA, secretary to Dr. Theodosius Dobzhansky, takes shorthand notes during the day, but after hours his notes are likely to be musical. Dr. Palestrina, a dramatic tenor, began his singing career at the Paris Opera Company. He sang the male lead in *Romeo and Juliet*, *Faust*, and *Carmen*, and was singing in Italian, French, and German at the Berlin State Opera House in 1939 when Americans were ordered home because of the War. He entered the U.S. Army as an interpreter with the rank of private, and three years later was honorably discharged as a Major. Dr. Palestrina began teaching in 1945, and was Chairman of the voice department at Marymount College in Tarrytown

EMPLOYEES ENDORSE COMMITTEE

Ninety-five percent of the non-faculty employees who responded to a recent survey are in favor of continuing the series of meetings with the administration initiated in the past year to explore employment policies, benefits, and other topics of mutual concern. A total of 73 percent feel that there should continue to be only "one all-inclusive employee group."

Of the more than 950 questionnaires distributed by the employees' representative committee, 466—or 49 percent—were returned.

The Committee is preparing another questionnaire to determine what method of representation the employees prefer. The questionnaire will also invite nominations for committee members. After all the nominations have been submitted, the committee plans to schedule a general election.

The meetings and questionnaires are the outgrowth of suggestions by President Seitz that non-faculty employees develop an agency to foster more meaningful and direct communications between themselves and the administration. The present committee is hopeful that a larger percentage of employees will respond to the second questionnaire, reflecting the basic intent to encourage maximum participation in the free expression of opinions and concerns.

where he taught from 1949 to 1951. Just before coming to Rockefeller, Mr. Palestrina coached the New York, Los Angeles, London, Belgium, and Paris companies of the musical, *Man of La Mancha*. He continues teaching evenings and weekends, and at the present time has two classes of eight pupils each.

GERTRUDE SMITH, Copy Editor of *The Journal of General Physiology*, is a volunteer teacher of English to educators and scientists from abroad. Current pupils include two doctors from Czechoslovakia and a doctor from Spain. During her 41 years with the University, Miss Smith has helped at neighboring institutions such as Sloan-Kettering, and Memorial Hospital, where she was chairman of the Chapel Escort Service.

ASSOCIATE TREASURER



The appointment of Sydney A. Woodd-Cahusac as Associate Treasurer is announced by President Seitz. When he takes office early in December, Mr. Woodd-Cahusac will be in new surroundings but his duties will be familiar ones. For he will be devoting him-

self to the needs of scientists and scholars—a major interest for him in his previous position as General Counsel and Secretary of The Perkin-Elmer Corporation, producers of scientific instruments. Before that, Mr. Woodd-Cahusac served as Treasurer of American Standard, Inc. for five years. He also practiced law in this city. He has worked extensively in legal, financial, and community service organizations, notably as Special Assistant Attorney General of the State of New York, as President of the Treasurers' Group, and as a member of the Board of Estimate and Taxation of the Town of Greenwich, Connecticut, where he will be sworn in for his fourth term on January 1. Mr. Woodd-Cahusac received the A.B. degree from Princeton and the LL.B. degree from Yale. He is married to the former Jean E. Fleming. They have three children.

WHERE ARE THEY NOW?

The twenty-seven members of The Rockefeller University Class of 1969 are continuing their research and studies in Switzerland, Belgium, England, Italy, and the United States. Seven remain at Rockefeller.

- Nicholas H. Acheson—*Helen Hay Whitney Foundation Fellow; Swiss Institute for Experimental Cancer Research, Lausanne, Switzerland.*
- Ronald I. Carr, M.D.—*Senior Postdoctoral Research Fellow; Department of Allergy and Clinical Immunology, National Jewish Hospital, Denver, Colorado.*
- Ta-Pei Cheng—*Visiting Member, Institute for Advanced Studies, Princeton.*
- Samuel W. Cushman—*American Cancer Society Fellow; Institut de Biochimie Clinique, Geneva, Switzerland.*
- John H. Ehrenreich—*Research Director, Drug and Hospital Workers' Union, Local 1199.*
- William D. Ensminger—*Student, Harvard Medical School.*

- Caleb E. Finch—*U.S. Public Health Service Fellow; Guest Investigator, Rockefeller University.*
- Stanley D. Fowler—*Helen Hay Whitney Foundation Fellow, University of Louvain, Belgium.*
- Ronald F. Fox—*Miller Institute for Basic Research Postdoctoral Fellow; University of California, Berkeley.*
- W. Einar Gall—*Research Associate, Rockefeller University.*
- Francisco Grünbaum—*Research Associate, Rockefeller University.*
- Vincent C. Hascall, Jr.—*Assistant Professor, Department of Oral Biology, School of Dentistry, University of Michigan, Ann Arbor.*
- David K. Herron—*Research Fellow in Chemistry, Harvard University.*
- John G. Hildebrand III—*Helen Hay Whitney Foundation Fellow; Department of Neurobiology, Harvard Medical School.*
- Eugene M. Kleinberg—*Instructor in Mathematics, Massachusetts Institute of Technology.*
- Frederick Meins, Jr.—*Assistant Professor of Biology, Princeton University.*
- Lyndell L. Millecchia—*Research and teaching, Reed College, Portland, Oregon.*
- Ronald J. Millecchia—*Alfred P. Sloan Foundation Postdoctoral Fellow; Reed College, Portland, Oregon.*
- Patrick E. O'Neil—*Office of Naval Research Fellow; Research Associate, Massachusetts Institute of Technology.*
- Barry W. Peterson—*Research Associate, Rockefeller University.*
- Mary R. Rifkin—*Research Associate, Rockefeller University.*

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ILLUSTRATIONS

Page 2 by Missak Serafian
Page 4 by Henrik Boudakian

- Hugh D. Robertson—*Helen Hay Whitney Foundation Fellow; Medical Research Council Laboratory of Molecular Biology, Cambridge, England.*
- Edward F. Rossomando, D.D.S.—*Research Associate, National Institute of Dental Research, National Institutes of Health, Bethesda, Maryland.*
- Stanley W. Sajdera—*Research Associate, Rockefeller University.*
- E. Martin Spencer, M.D.—*U.S. Public Health Service Special Fellow; Guest Investigator, Rockefeller University.*
- David C. Ward—*Leukemia Society of America Fellow; Imperial Cancer Research Fund, London, England.*
- Eric S. Weinberg—*Helen Hay Whitney Foundation Fellow; Laboratory for Molecular Embryology, Naples, Italy.*

kudos

H. OSBORN BAGG, Supervisor of the Animal House, was presented the Ralston Purina Animal Technician Award by President Geoffrey H. Lord of the American Association for Laboratory Animal Science, in Dallas on October 13, in recognition of his "outstanding contribution to animal technician training."

DR. H. KEFFER HARTLINE received the 1969 Lighthouse Award for Distinguished Service, "in acknowledgment of his dominant role in the field of research on vision and as an expression of gratitude," from President Frederick S. Moseley, Jr., of the New York Association for the Blind, on October 16. In June, Dr. Hartline received the honorary degree of Doctor of Laws from The Johns Hopkins University.

DR. FRITZ LIPMANN was awarded the honorary degree of Doctor of Medicine by Medizinische Hochschule, Hannover, Germany, last July.

DR. BRUCE MERRIFIELD was honored in November for his synthesis of ribonuclease, when he was given the \$10,000 Albert and Mary Lasker Foundation Award for basic medical research.

The Physics Department of Northwestern University held a special symposium on "Statistical Mechanics at the Turn of the Decade," in honor of DR. GEORGE E. UHLENBECK, on October 30-31. Dr. E. G. D. Cohen was one of the participants.