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## NEWS AND NOTES 1985, VOL.17, NO.1

The Rockefeller University

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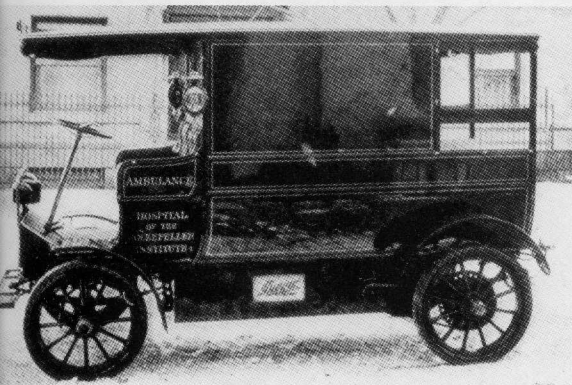
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# News and Notes

## The Rockefeller University

October-November 1985  
volume 17, number 1



*An early ambulance of The Rockefeller Hospital. See story page 2.*

## Choppin to Hughes

Purnell W. Choppin, Leon Hess Professor, vice president for academic programs, dean of graduate studies, and co-head of the University's laboratory of virology, has accepted an appointment as vice president and chief scientific officer of the Howard Hughes Medical Institute. Effective October 1, he assumed his new post at its offices in Bethesda, Maryland.

Working in close conjunction with Dr. Donald S. Fredrickson, president and chief executive officer of the Institute, Dr. Choppin will be directing the core laboratory program of the Hughes Institute which is affiliated with leading academic institutions across the country. He will be designing and selecting new programs, and overseeing research facilities and resources. States President Lederberg: "The University has benefitted from Dr. Choppin's superb gifts as scientist and citizen for 28 years. He goes to his new duties at the Hughes Institute with the warm good wishes and appreciation of all of us on this campus who have had the good fortune to know and work with him."

The Howard Hughes Medical Institute was founded in 1953 by the late Howard R. Hughes. It conducts research in four principal areas—immunology, genetics, endocrinology, and neuroscience. It now has 17 laboratories, employing over 200 scientists and 400 support staff.

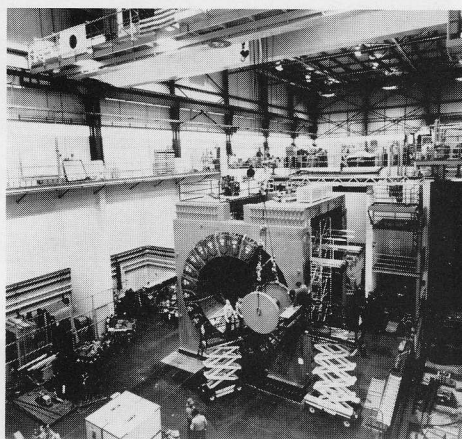
With this issue, *News and Notes* acquires a new look, created by Freeman Craw, prize-winning graphic designer of The Rockefeller University Press.

Dr. Choppin joined the University in 1957 as a postdoctoral fellow, and became professor and senior physician at the Rockefeller Hospital in 1970. He was named Leon Hess Professor in 1980, vice president in 1983, and dean in 1985. As co-leader of the University's virology laboratory, he has studied viruses that cause human disease, and he and his associates have been successful in demonstrating new mechanisms in the replication of myxo- and paramyxo-viruses, in viral pathogenesis, and in chemical control of virus infection.

## "Eye" into the Atom

A team from the University's experimental physics laboratory has joined 200 physicists from 10 American universities, three national laboratories, and two foreign countries in the biggest high-energy physics experiment in history.

In September, Fermilab's Tevatron atom smasher, located in Batavia, Illinois, a superconducting upgrade of the existing accelerator built over six years at a cost of \$64 million, was switched on for the first time. Its purpose is to provide physicists with an unprecedented glimpse into the world of subatomic particles.



*The 2,017-ton collider detector being electronically equipped before being moved into the Tevatron accelerator.*

In the Tevatron, proton and antiproton beams race in opposite directions around the giant four-mile-circumference accelerator at velocities approaching the speed of light. By smashing these particles together at forces never before achieved, experimenters will be able to "see" incredibly small and short-lived (continued on page 5)

## Symposium to Honor Kac

A memorial symposium in honor of world-revered mathematician Mark Kac, a member of the University's faculty from 1961 to 1982, will be held on November 4 in Caspary Auditorium, from 9 A.M. to 5 P.M.

Speakers include Gian-Carlo Rota of the Massachusetts Institute of Technology, Henry McKean of the Courant Institute of Mathematical Sciences of New York University, George Carrier of Harvard University, Ronald Fox of the Georgia Institute of Technology, Tsung Dao Lee of Columbia University, and Professor Joel Cohen, head of the University's laboratory of populations.

Members of the campus community are invited to attend.

## Kresge Foundation Awards Grant

The University has been awarded a challenge grant of \$750,000 from The Kresge Foundation of Troy, Michigan, to help finance the renovation of laboratory buildings.

In 1982 the University began a five-year, \$6 million program to modernize research facilities; the program is now in its second phase, which is estimated at \$3,700,000. The grant was awarded with the condition that the University raise the balance of the required funds.

Said President Lederberg, "Renovating these sound and well-maintained half-century-old buildings is much more cost-effective (continued on page 5)

## Kappas Exchange Fellow at Karolinska

Sherman Fairchild Professor Attallah Kappas, physician-in-chief of the Rockefeller Hospital, vice president, and head of the laboratory of metabolism-pharmacology, has been selected as the first Rockefeller recipient of a fellowship from the Gunnar and Lillian Nicholson Exchange Fund for Biomedical Students.

The fellowship alternates yearly between the University and the Karolinska Institute in Stockholm. Goran Sedvall of Karolinska, who held the first fellowship, for 1984-85, worked in the molecular and cellular neuroscience laboratory of Professor Paul Greengard.

Dr. Kappas will make several trips to Karolinska, where his project is "to extend our studies of the biological properties of synthetic metal porphyrins."



# Hospital Celebrates 75th Anniversary

The Rockefeller Hospital was dedicated on October 17, 1910, becoming the first clinical facility in the United States devoted solely to research. This year, on October 17, in recognition of that "revolutionary idea," the Hospital unveils an exhibition of photographs and memorabilia highlighting its 75-year history. Some selections are reproduced here.

The exhibition, "America's First Clinical Research Center: a 75-Year Pictorial History," features a slide show with accompanying recorded reminiscences by Reginald Archibald, Merrill Chase, Vincent Dole, Walther Goebel, James Hirsch, Rollin Hotchkiss, Maclyn McCarty, and Michael Heidelberger. (Dr. Heidelberger, who first came to Rockefeller in 1912, is still active in his laboratory at New York University at the age of 94.) Also on display is a map indicating the location of over 1,000 Hospital "alumni."

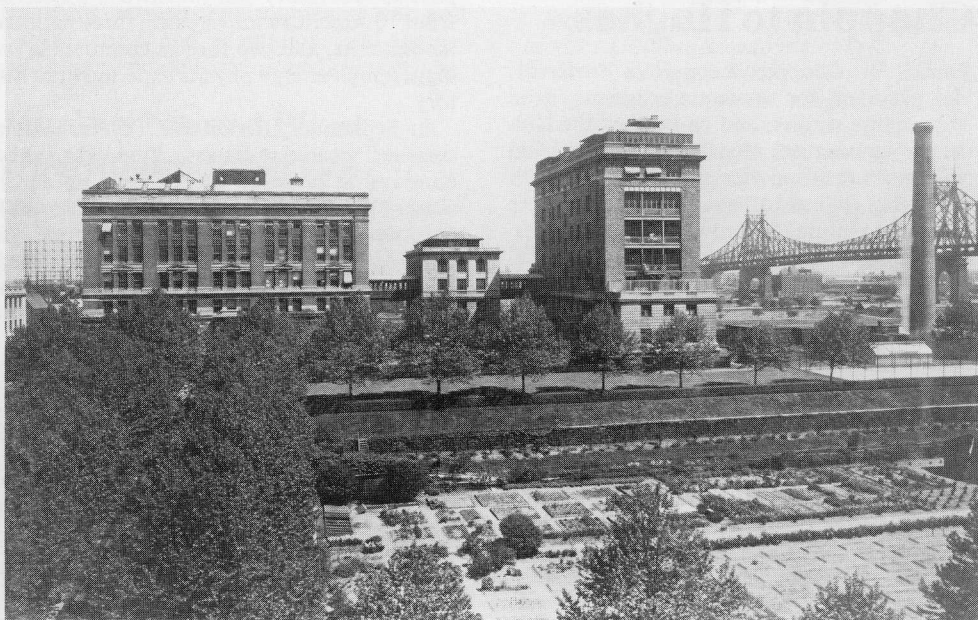
The exhibition will be open to the public after October 17 in Room 128 of the Hospital. Other events planned in celebration of the Hospital's anniversary are a birthday symposium and an alumni reunion.



*Nursing staff, ca. 1938.*



*Hospital staff, 1923. Thomas M. Rivers, director of the Hospital from 1910 to 1937, bottom row, third right, and Michael Heidelberger, who attended the symposium on the Hospital's 75th anniversary on October 17, middle row, far right.*

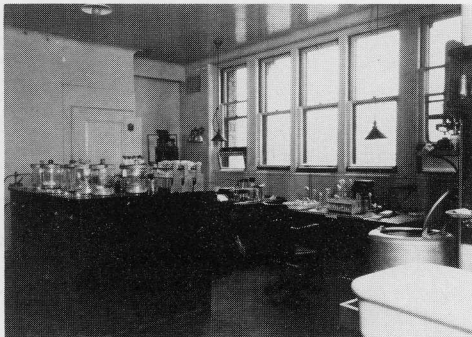


*Southern view of the campus in 1930*



*Oswald T. Avery with War Demonstration Hospital Microbiology class, c. 1918.*





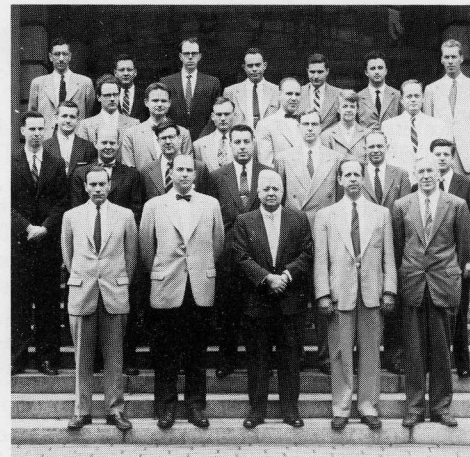
*Oswald T. Avery's laboratory, c. 1920*

### **Holiday Dance**

The University's annual Holiday Dance will be held on December 6, from 8:30 P.M. to 1 A.M., on the 17th floor of the Tower. Tickets for the dance, which features an open bar, dinner, orchestra, and DJ, are \$15.00 each and are available at Purchasing, Founder's Hall reception, the Faculty and Students' Club, and the Hospital Office.



*Oxygen chamber, c. 1920*



*Hospital staff, 1955*



*The Hospital in 1911*



*Nursing staff, 1985*

### **Holiday Festivity**

The University's annual Holiday Festivity, hosted by President and Mrs. Lederberg, will be held this year on December 13 from 3 to 5 P.M. on the 17th floor of the Tower.

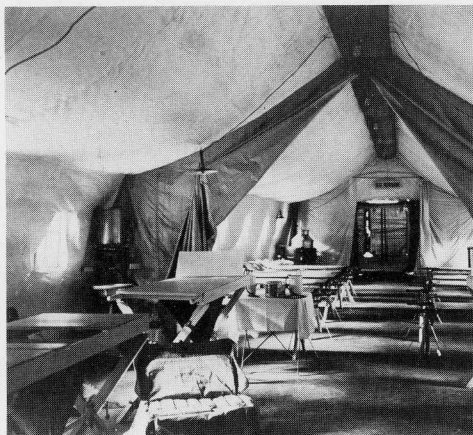


*War Demonstration Hospital, 1917*



*Hospital staff, 1910*





Interior of War Demonstration Hospital, 1917

### A Winning Garden

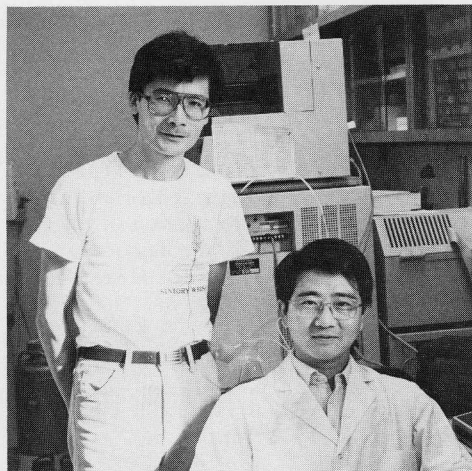
The interior garden in Smith Hall Annex, completed in 1984, has earned an award for its designer from the New York Association of Landscape Contractors. The association presented its first gold award for interior landscaping to William McFadden, president of Landscape Contractors, Seaford, New York.

## Appointments

**Leif Finkel**, Developmental and Molecular Biology, and **Steven Wolff**, Organic Chemistry and Physical Biochemistry, as associate professors, effective July 1.

**Vance Zemon**, Biophysics, as assistant professor, effective July 1.

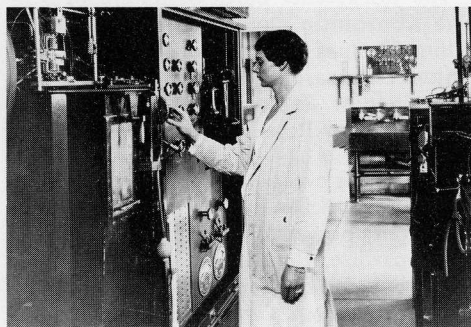
**Todd A. Leff**, Biochemical Genetics, as assistant professor, effective September 1.



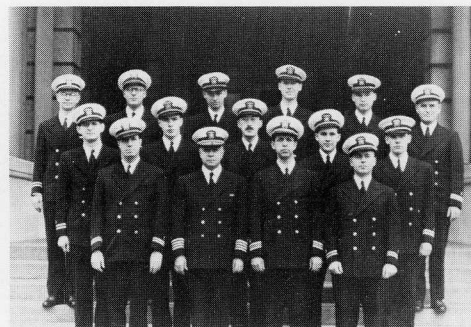
From left, Drs. Osamu Sugita and Tatsuya Kurihara, visitors from The Suntory Institute.



Hospital staff, 1985



EKG laboratory of Alfred E. Cohn, 1927



Hospital staff, 1943



Professor Edward H. Ahrens, Jr., second left, who became emeritus this year, at a party in his honor on June 28. With him, from left, his former secretary Barbara Wightman, Professor Jules Hirsch, who began his Rockefeller career with Dr. Ahrens, and Nancy Dean, a former assistant for research in the laboratory.



Representatives of the Spinal Cord Research Foundation of the Eastern Paralyzed Veterans Administration present a check to Professor Nurit Kalderon of the biophysics laboratory in support of her research on paralysis at a ceremony at the University on August 15. From left, Kurt Eisenman, the association's director of research, Dr. Kalderon, and Joseph Segarra, its president.

### Japanese Researchers Visit

Drs. Osamu Sugita and Tatsuya Kurihara of The Suntory Institute for Biomedical Research of Japan are visiting Rockefeller as part of the collaborative relationship between the two institutions established last year.

Dr. Sugita is working in the metabolism-pharmacology laboratory of Professor Attallah Kappas on the purification and characterization of a new cytochrome P-450, a key enzyme in drug metabolism. Dr. Kurihara is conducting research on the cloning of the gene for neuron-specific phosphoproteins in the mammalian brain, in Professor Paul Greengard's laboratory of molecular and cellular neuroscience.

Last October, President Lederberg and Professor Shigeru Sassa of the laboratory of metabolism-pharmacology spoke at the first Rockefeller University-Suntory Lectures held in Tokyo.



Parents and children of Faculty House preparing to leave on one of the "getaway days" sponsored by the University this August. Day-trips to Sebago Beach, Stamford Museum, Pound Ridge Reservation, Hecksher State Park, and Sesame Place were offered as a relief to the noise caused by the construction work for the Scholars Residence.



## Honors and Awards

Adjunct Professor **Richard M. Krause**, dean of Emory University School of Medicine, has been awarded the Robert Koch Medal in Gold by the Robert Koch Institute in Berlin for his contributions to the field of immunology.

Professor **Neal E. Miller**, Physiological Psychology, has been elected an honorary member of the German Society of Behavioral Medicine and Behavior Modification.

Trustee **Lewis Thomas**, president emeritus, Memorial Sloan-Kettering Cancer Center, has been chosen as the 1985 recipient of the Richard Hopper Day Memorial Medal of the Academy of Natural Sciences in Philadelphia.



*Fulvio Bardossi, who retired as director of public information, receives an honorary "doctor of joyous philosophy" degree from President Lederberg at a farewell party on June 18.*

## Making Security More Secure

As part of the Security Office's efforts to ensure the highest standards of safety on campus, several of its members have recently completed courses on security training.

Sergeants Vivian Jones, Charles Liverpool, and Audley White, and Lieutenants Edward Hutchins and Harold Taft have been awarded certificates by the Municipal Police Training Council of the State of New York for the successful completion of a five-day course designed for hospital and university security personnel.

Sergeant Jones and Lieutenant Taft, along with Sergeant Bathurst Muir, completed a security seminar presented by the 19th police precinct and Security Guard Michael John attended a workshop on "Crime on the College Campus," in Washington, D.C.

"Eye" (continued from page 1)

subatomic particles in the debris of these tremendous collisions.

Together with colleagues from Japan and

Italy, the Rockefeller physicists have been responsible for the "eye" of the Tevatron, a piece of instrumentation called the Collider Detector at Fermilab (CDF), which itself took six years to construct and cost about \$50 million. The CDF is electronically triggered by subatomic events occurring 100,000 times per second, and is able to measure and characterize them.

The Rockefeller participants are Professors Konstantin Goulianos, Sebastian N. White, Thomas Chapin, and Nikos Giokaris, Adjunct Research Associate Stefano Belforte, Senior Research Associate Robert Plunkett, and Research Associate Giorgio Chiarelli.

Among the events the CDF is designed to examine, physicists will be watching for the theorized, but experimentally unverified, Higgs particle, thought to be an important link in unifying the weak and electromagnetic forces in the atom. Other subatomic particles they hope to further substantiate and study are "top" and "bottom" quarks, also called "truth" and "beauty."

Results of the September run, meant to provide a first look at this colossal new energy and an opportunity to correct any technical problems, have not been reported at this writing. Experiments are expected to resume in the summer and fall of 1986.

## Deaths

**Guy Thomas Barry**, 65, former deputy director of the technical services division of the U.S. Customs Service, who was a postdoctoral fellow at the University in the 1950s, on June 30.

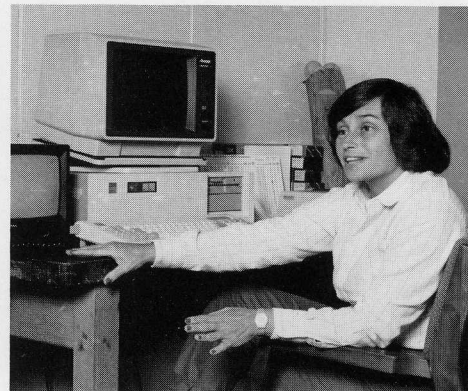
**David R. Goddard**, 77, former provost and professor of botany at the University of Pennsylvania, who was a postdoctoral fellow at Rockefeller in the 1930s, on July 9.

**Ellen Hanlon**, 68, who joined the University in 1971 as secretary to Professor Edward Reich and was a secretary in the Housing Office from 1972 until her retirement in 1983, on July 3.

**Kresge** (continued from page 1)

tive than constructing new ones." When completed, he asserted, "they will be able to support the most intensive demands of contemporary scientific technology."

The Kresge Foundation was established in 1924 by the late Sebastian Spering Kresge, founder of the S. S. Kresge variety stores, to aid educational, cultural, scientific, and social service institutions. Previous Kresge grants to the University contributed toward the construction of the Laboratory Animal Research Center and the renovations of laboratory space in the Tower building and the Hospital.



*Marcia Klein at her computer.*

## Marcia Klein Wins Award

Marcia Klein, a computer programmer in the electronics and laboratory microprocessors laboratory, has been selected as the winner in a programming contest on artificial intelligence concepts sponsored by Solution Systems of Norwell, Massachusetts.

Her winning program was written in the Prolog language for personal computers for mainly artificial intelligence applications. It is an "implementation of a natural language-processing system," according to Mrs. Klein, which means that it allows the user to question the computer in "plain English." According to fellow programmer Owen Smith, who encouraged her to enter the contest, "artificial intelligence makes the computer more user-friendly."

Mrs. Klein had used computers before joining the laboratory in 1984. Although she enjoyed working with them, she didn't really understand *how* they worked. With her children in school, she decided to return to school herself and earned a master's degree in computer science from New York University. She is continuing studies part-time toward a doctorate.

## Briefs

Professor **M. A. B. Bég**, Theoretical Physics, gave the opening talk at the International Symposium on Particles and the Universe, held at the Aristotle University in Thessaloniki, Greece, June 24-29, on "The Scalar Sector of Modern Gauge Theories and the Quest for a Unified Description of the Fundamental Interactions." Professor **Burt Ovrut** and Research Associate **Constantinos Panagiotakopoulos** spoke on "The Superstring Vacuum" and "The Top Quark Mass, in Grand Unified Theories with Intermediate Mass Scales," respectively. Adjunct Professor **David Gross**, of Princeton University, spoke on "The Heterotic String."

**Lawrence Bogorad**, Maria Moors Cabot Professor of Biology, Harvard University, who was a postdoctoral fellow in the laboratory of

the late Professor Samuel Granick, has been named president-elect of the American Association for the Advancement of Science.

Professor **Richard Broglie** and Postdoctoral Fellow **Ferenc Nagy**, Plant Molecular Biology, spoke at an international symposium, "Biotechnology in Plant Science: Relevance to Agriculture in the Eighties," at Cornell University, June 23-27. Dr. Broglie's topic was the regulation of chitinase gene expression by ethylene in response to plant stress, and Dr. Nagy's topic was DNA sequences involved in the constitutive and regulated expression of plant genes.

Professor **D. Martin Carter**, Investigative Dermatology, has been named president of the Society for Investigative Dermatology. He also delivered a lecture, "Exploring the Biology of Aging," at a meeting of the British Society for Investigative Dermatology, at Oxford University, September 26.

Professor **Purnell W. Choppin**, vice president for academic programs, dean, and co-head, Virology, delivered a lecture, "The Role of Viral Membrane Proteins in Pathogenesis," at a meeting of The Harvey Society on May 16.

Professors **Christian de Duve**, Biochemical Cytology, and **Paul Greengard**, Molecular and Cellular Neuroscience, have been awarded Wellcome Visiting Professorships, sponsored by the Federation of American Societies for Experimental Biology and The Burroughs Wellcome Fund. During the 1985-86 academic year, Dr. de Duve will visit the Medical College of Virginia, in Richmond, and Dr. Greengard will visit the University of Iowa, in Iowa City.

Professor **Gerald M. Edelman**, Developmental and Molecular Biology, gave a lecture, "Cell Adhesion Molecules and the Regulation of Animal Form," at the Marine Biological Laboratory, Woods Hole, Massachusetts, July 26.

Professor **Neal E. Miller**, Physiological Psychology, delivered the keynote address, "Behavioral Medicine: Mutual Benefits of Positive Feedback Between Research and Application," at the annual meeting of the European Association of Behavior Therapy, August 30, in Munich.

Professor **Floyd Ratliff**, Biophysics, gave the Distinguished Scientific Contribution Award Address at the annual meeting of the American Psychological Association in Los Angeles, August 25. His topic was "Illusions in Minds and in Machines."

Senior Research Associate **Anthony I. Sanda**, Theoretical Physics, delivered an invited summary talk, "CP Violation," at the Tenth International Conference on Weak Interactions, held in Savollinna, Finland, June 16-22.

## Personals

Postdoctoral Fellow **Jan Naegele**, Neurobiology, was married to Paolo Lombroso, a psychiatrist at St. Vincent's Hospital, on May 25.

Professor **Fred H. Pruslin**, Cell Biology, was married to Jolie Lynn Forman, assistant product development manager for Carter-Hawley-Hale, on June 30.

## Dubos Professorship at Rutgers

Rutgers University has appointed David Mechanic as the first René Dubos Professor of Behavioral Sciences. The professorship honors the late Rockefeller microbiologist and environmentalist, who received his Ph.D. from Rutgers in 1927.

Dr. Mechanic, formerly dean of the Faculty of Arts and Sciences, is a leading authority on medical sociology, a field he helped develop. He has written extensively on the relationships between environmental risk and disease, stress and adaptation, and the organization and delivery of medical services.

## Mueller Named Plant Operations Supervisor

Erika Mueller, who joined the University in 1962 as a stenographer in what was previously called buildings and grounds, has been appointed a supervisor in plant operations. In her new position, she will be responsible for the day-to-day management of the office, according to Director of Physical Facilities Thomas P. McGinnity, who called Miss Mueller "the heart of the operation. She ties us all together."

## NYU-RU Seminars

The sixth season of the New York University-Rockefeller University Joint Program in Science and the Humanities is underway. The program consists of informal noontime talks by Rockefeller scientists at NYU and by NYU professors here.

The humanities seminars, open to all members of the campus community, meet in Room 301, Tower. Special fall and spring evening lectures are also planned. For details on dates and speakers, check the bulletin boards.

## Promotions

**Stuart J. Decker**, Biosynthesis, **Patricia A. Detmers**, Cellular Physiology and Immunology, **K. Reinhard Jahn**, Molecular and Cellular Neuroscience, **Barbara McGuire**, Neurobiology, and **Westley Reeves**, Cell Biology, to assistant professor, effective July 1.



Director of Nursing Elizabeth Straight, right, accepts a plaque commemorating her 25 years of service to the Hospital from Carmen Schmidt, assistant director of nursing, and Kathy Kleinbard, administrator of the Hospital, left, at a reception in her honor at the Faculty and Students' Club on September 12.

## New Students

The University's new students include 17 graduate fellows and six biomedical fellows, who will work toward a Ph.D. from Rockefeller and an M.D. from the Cornell University Medical College.

The new graduate fellows are:

Alessandro Campa, *Universita degli Studi di Roma*

Jennifer Cordes, *Bowdoin College*

Elizabeth de Beus, *Yale University*

Paul Felner, *Haverford College*

Peter Freudenthal, *Yale University*

Mary Kilar, *Dartmouth College*

Frank Kewen King, *Shanghai Second Medical College; Shanghai Institute of Physiology*

Chau-Ching Liu, *National Taiwan University, School of Medicine*

Satyajit Mayor, *Indian Institute of Technology, Bombay*

Michael McGuigan, *Carnegie-Mellon University; Yale University*

Marina Picciotto, *Stanford University*

Charles Reichman, *Massachusetts Institute of Technology*

Melanie Smith, *Swarthmore College*

Jessica Treisman, *Oxford University*

Mary Williams, *University of California, Berkeley*

Jeffrey Yuan, *Yale University*

Arturo Zychlinsky, *National Polytechnic Institute (Biological Sciences), Mexico*

The new biomedical fellows are:

Mary Burrous, *Oberlin College*

Jeffrey Krane, *Yale University*

Jeffrey Ming, *Yale University*

Ruta Nonacs, *University of Chicago*

James Rubenstein, *Stanford University*

Blair Simpson, *Yale University*

*News and Notes* is published five times a year from October through July. This is volume 17, number 1. Suggestions for articles are welcome and may be sent to *News and Notes*, Box 194, phone extension 8968 or 8970. Photographs, page 1, top left, page 2, page 3, page 4, top left, center, and right, The Rockefeller University Archives; page 1, center, Fermilab Photography; page 3, center, page 4, top, page 5, left, Ingbet Grüttnier; page 4 center, bottom right, George Byron; page 4, center right, page 5 right, page 6 right, Ronald Weickart, page 4 bottom left, Dr. Shigeru Sassa. © 1985 The Rockefeller University, New York, 10021-6399. Printed in the United States of America.