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THE ROCKEFELLER UNIVERSITY *news and notes*

PATRICK E. HAGGERTY • 1914-1980



Left to right: President Lederberg, President Emeritus Seitz, Patrick Haggerty, chairman of the board, in 1978.

Patrick Eugene Haggerty, chairman of the University's board of trustees since 1975 and a trustee for the past decade, died on October 1 after a brief illness. He was 66 years old. Chairman of the board of Texas Instruments, Inc. from 1966 until his retirement in 1976, he was a world renowned innovator in the field of electronics and corporate management.

In his announcement to the campus community, President Lederberg paid tribute to the "vision and leadership" that "characterized Mr. Haggerty's career" and "was reflected in his enthusiastic service" to The Rockefeller. "We benefited greatly from his counsel and his active concerns for maintaining the University's unique strength."

On behalf of the trustees, David Rockefeller, chairman of the executive committee of the board and Mr. Haggerty's predecessor as chairman, praised his "deep perception of the University's needs and the skillful dedication he brought to the task of improving its potential and its opportunity for first-rank research."

Mr. Haggerty was born in Harvey, North Dakota on March 17, 1914. He received a B.S. degree, *summa cum laude*, from Marquette University in 1936. After graduation, he worked as a production manager and then as assistant general manager of the Badger Carton Company in Milwaukee. During World War II, he served in the U.S. Naval Reserve, where he became responsible for all procurement of Naval airborne electronic equipment.

In 1945, he joined Geophysical Service, Inc., the company that evolved into Texas Instruments. He was named executive vice president and director of Texas Instruments in 1951, president in 1958, and chairman in 1966. Under his leadership, the company made pioneering advances in the semiconductor field including the first commercially available silicon transistors and the development of germanium tran-

sistors, making possible the first pocket radio.

His expertise was often tapped for public service. He served on the President's Science Advisory Committee, was appointed in 1979 to the President's Commission on Three Mile Island and, earlier this year, to the Nuclear Safety Oversight Committee.

He was the recipient of many industrial and educational awards, including eight honorary degrees among which was one from his alma mater, Marquette, which gave him the Distinguished Alumnus Award in 1966 and the Alumnus of the Year Award in 1972. In 1970, he was given the Brotherhood Award of the National Conference of Christians and Jews. He was a life member of the Texas Academy of Sciences and served on the board of the University of Dallas. An ardent yachts-

man, he garnered many sailing trophies.

Frederick Seitz, president of the University during eight of Mr. Haggerty's ten years on the board, stated: "There are many illustrious and dynamic individuals among corporate leaders, but Patrick Haggerty was outstanding even within this group. He is best known publicly for his role in the evolution of Texas Instruments but those who knew him intimately understood clearly that his success in that role was an inevitable consequence of his enormous capacity to deal successfully with almost any cluster of problems. He was, in brief, a rare genius when judged by any standard. Rockefeller University owes him a great debt for the help he gave to all of us during the difficult years of the 1970s as we sought successfully to retain our distinction while assuring our solvency."

Mr. Haggerty is survived by his wife, Beatrice, five children, and 13 grandchildren.

Baker Elected Board Chairman

The University's board of trustees has elected William O. Baker as its chairman, succeeding Patrick E. Haggerty, who died on October 1. Retired chairman of the board of Bell Telephone Laboratories, Dr. Baker has been a University trustee since 1960 and vice chairman of the board since 1970. Ralph Ablon, chairman and president of Ogden Corporation, was elected vice chairman.

Dr. Baker, an international leader in science and technology, is a graduate of Washington College and has a Ph.D. in physical chemistry from Princeton University. He has been awarded 19 honorary degrees in this country and abroad. A member of the National Academy of Sciences, the National Academy of Engineering, the Institute of Medicine, the American Academy of Arts and Sciences, and the American Philosophical Society, he has held major governmental posts, including service on the President's Science Advisory Committee and the National Science Board of the National Science Foundation.

He has worked at Bell Telephone Laboratories since 1939. As research vice president from 1955 until becoming president in 1973, he was responsible for programs which have created the laser, superconducting magnets, and the strongest permanent magnets, new computer graphics, and millimeter wave communications. In his personal research he has concentrated on the study of solid-state materials and macromolecules; plastics, fibers, natural and synthetic rubbers, and other insulating and structural parts of communications sys-



William O. Baker

tems; dielectric and dynamic mechanical properties of crystals and glasses; and information processing technology.

As a member of the University's board, Dr. Baker has served on many committees. He was chairman of the Committee on the Future of the University, in 1973, and of the search committee that recommended the appointment of Joshua Lederberg as the University's president in 1978.

Mr. Ablon, a founding member of The Rockefeller University Council, has been a trustee since 1974 and is chairman of the board's development committee.

Fishman Appointed Professor



Jack Fishman, formerly professor at Albert Einstein College of Medicine and a Rockefeller adjunct since 1977, has been appointed a professor at the University and head of a new laboratory of endocrinology.

Endocrine research is largely concerned with chemical substances called hormones that regulate many vital functions in the body. Dr. Fishman's interest is the chemistry, biochemistry, and physiology of the steroid hormones and particularly estrogens, the female sex hormones, so called because they control the development of female secondary sex characteristics, although they are also produced in men. Estrogens play a significant role in reproduction, in certain diseases predominant in women, and in such endocrine-related cancers as cancer of the breast, endometrium (the mucous membrane of the uterus), and the prostate gland. Dr. Fishman has been instrumental in developing the field of catecholestrogens, natural estrogens that show promise, based on recent work by his group, of possible clinical usefulness in several areas.

Another longtime interest for Dr. Fishman, a chemist by training, has been the opiate analgesics. In his early work, he developed a number of now commercially produced compounds, most prominently naloxone, the first pure narcotic antagonist. In addition to its primary role in reversing the effects of narcotics, naloxone has turned out to be a crucial tool in research on opiate receptors in the brain and the body's own opiates. The discovery of the existence of endorphins, natural opiates produced by the body itself, depended in large part on the use of naloxone, opening up one of the most exciting new areas of neurobiology. (The word endorphin means "the morphine within.") Some of Dr. Fishman's current projects combine his two interests as he studies the mechanisms of opiates interacting with estrogens in the brain.

Dr. Fishman received a B.A. from Yeshiva University in New York, an M.A. from Columbia, and a Ph.D. from Wayne University. He was a postdoctoral fellow at Oxford University in England before joining the Division of Steroid Metabolism and Biochemistry of Sloan-Kettering Institute in 1956. He went to Montefiore Hospital in 1963 as an investigator, and from 1974 to 1977 was director of its Institute for Steroid Research. He was appointed an associate professor at Albert Einstein in 1967 and professor in 1971.

Working with him in his Rockefeller lab are Senior Research Associate Jerry H. Fishman, Assistant Professors Elliot F. Hahn and Charles Martucci, Research Associate Baiba Norton, Postdoctoral Associates Shigeo Ikegawa and Shigerhiro Katayama, Postdoctoral Fellow Charles

BRIEFS

Professors **M. A. B. Bég**, **Louise A. Dolan**, and **Heinz Pagels**, Theoretical Physics, gave invited talks at the 20th International Conference on High Energy Physics, held in Madison, Wisconsin, July 17-23. Dr. Bég presided at the session on Dynamical Symmetry Breaking, where he delivered the opening talk on Hypercolor, as well as at the plenary session on New Developments in Gauge Theories.

Dr. Bég also gave an invited lecture at the Workshop on Gauge Theories and Their Phenomenological Implications, held at the Orthodox Academy of Crete June 29-July 9.

R.U. Council Member **John Diebold**, chairman, The Diebold Group, Inc., delivered the Trueman Wood Lecture at The Royal Society of Arts, London, April 17. He spoke on Making Our Institutions Work.

Professor **René J. Dubos** initiated a new series of annual lectures, the Milbank Program in Health and Society, sponsored by the Columbia University College of Physicians and Surgeons and Barnard College. He spoke on Human Meanings of Health, at Barnard, on October 8.

President Lederberg delivered the keynote talk on Molecular Biology and Cardiovascular Disease at a symposium on New Directions in Research and Therapy for the '80s, sponsored by Hoechst-Roussel Pharmaceuticals, on September 23 in Somerville, New Jersey.

Professor **Fritz Lipmann**, Biosynthesis, delivered the annual Cori Lecture at the Roswell Park Memorial Institute in Buffalo July 16.

The annual Lipmann Lecture of the German and Austrian Societies for Biological Chemistry was presented in Innsbruck on September 15 by Dr. Horst Kleinkauf, a former member of Dr. Lipmann's lab.

Professor **Philip Siekevitz**, Cell Biology, participated in a symposium sponsored by the Charles Kettering Foundation in cooperation with Teachers College, Columbia University, on Knowledge, Education, and Human Values, at Woodstock, Vermont, June 17-20.

CHANGES AT MEMORIAL

Rockefeller Trustee Lewis Thomas has retired as president and chief executive officer of Memorial Sloan-Kettering Cancer Center, a post he has held since 1973, and has assumed the position of chancellor. He has been succeeded as president by Paul A. Marks, formerly vice president for Health Sciences and director of the Comprehensive Cancer Center at Columbia University.

Paden, Adjunct Professor H. Leon Bradlow, Assistants for Research Christine Ajello, Deborah Orak, and Mae Hom, Administrative Secretary Mary Ann Kelly, and Helper Lorna Hunte.

Stein Lectures

The board of trustees has adopted a resolution to establish The William H. Stein Memorial Lectures in honor of the world-renowned biochemist and Nobel Prize winner who was a member of the University's scientific staff for 42 years. They will be presented annually within the framework of the regular Friday afternoon research colloquia program. Support for the series will come from the memorial fund created through contributions from family, friends, and colleagues following Professor Stein's death last February. The first Stein Lecture will be announced later in the academic year.

**Children's School Book Fair,
December 2-4, Tower Lobby.
R.U. sweatshirts on sale NOW at
Children's School.**

Battle Zone

With bus routes, construction sites, and entrances and exits to and from the FDR Drive and the 59th Street Bridge added to the normal congestion of a high-population neighborhood, York Avenue is at best a difficult street for pedestrians to negotiate. But the situation is grossly aggravated by flagrant and continuous violations of traffic rules by motorists who careen around the corners leading into the avenue, run red lights, or block crosswalks. There have been a number of serious accidents.

This summer, after he and his small son barely escaped being hit by a car running a red light at 63rd Street, Professor Thomas Gentry decided to do something more than fume about it. He mounted a telephone and letter-writing campaign to alert the traffic authorities to the need for better policing of the area. In response, the Department of Traffic has sent patrol cars and supervisory personnel to York Avenue and they have reported to him that they are looking into ways to effect more stringent traffic law enforcement as well as possible modifications of the roadway engineering.

Dr. Gentry's efforts need support. Call him, on extension 1120, to discuss how you can help. In addition, he asks that all of us help ourselves. The traffic department representatives told him they observed, in addition to motorist violations, many pedestrians disregarding basic safety procedures.

Remember, York Avenue is a battle zone. Cross carefully.

York Avenue facing west from the University.



APPOINTMENTS

Jonathan M. Charry, Physiological Psychology, as an assistant professor, effective May 1.

Olli Janne, Population Council, as an assistant professor, effective July 1.

Norbert Lanners, Parasitology, as an assistant professor, effective September 1.

William W. Lowrance, as senior fellow and adjunct associate professor, Life Sciences and Public Policy Program, effective July 1.

Paul A. Marks, president, Memorial Sloan-Kettering Cancer Center, and **Aaron R. Rausen**, director of pediatrics, Beth Israel Medical Center, and professor, Mount Sinai School of Medicine, as members of the adjunct faculty, effective July 1.

Susan G. Langreth, associate professor, Department of Microbiology, Uniformed Services University Health Sciences; **Richard G. Piccioni**, assistant professor, Department of Biology, Hunter College; **J. Laurie Snell**, professor of mathematics, Dartmouth College; and **Victor Stevens**, assistant professor, University of Buffalo, as members of the adjunct faculty, effective September 1.

PROMOTIONS

Louise Dolan, Theoretical Physics, **Ming-chu Hsu**, Virology, and **Takeo Yoshinaga**, Metabolism-Pharmacology, to assistant professors, effective September 1.

New Graduate Fellows

New students on campus include 22 young men and women in the Ph.D. program and six in the joint Rockefeller-Cornell Medical College M.D.-Ph.D. program.

The new Ph.D. fellows are:
Adriane Antler, *Yale University*
Xiao-jia Chang, *Nankai University and Academia Sinica*, Peking
David Clayton, *University of Georgia*
Mark Cohen, *Stanford University*
Libbe Englander, *Yale University*
Emily Evans, *Barnard College*
Vincent Figerou, *Université des Sciences et Techniques du Languedoc*
Wilma Friedman, *Oberlin College*
Wilder Fulford, *University of Toronto*
Howard Gutowitz, *Brown University*
Linda Hanley-Bowdoin, *University of California, Riverside, and University of Toronto*
William Heath, *Indiana University*
Ruben Henriquez-Pelaez, *Universidad Complutense de Madrid*
Satori Iwamoto, *Harvard University*
Wendi Neckameyer, *Cornell University*
Basil Orfanopoulos, *University of Athens*
Paul Roossin, *New York University*
Steven Runfeldt, *Brandeis University*
Josef Sedlmair, *Technical University of Munich*
Celeste Simon, *Miami University and Ohio State University*
Robert Soodak, *State University of New York at Albany*
Ding-E Young, *Universidade de Brasilia*
 The new biomedical fellows are:
Donna Anthony, *Yale University*
Mace Beckson, *Harvard University*
Arun Chervu, *Princeton University*
Peter Hotez, *Yale University*
James Krueger, *Rockefeller University*
Rosalind Segal, *Rockefeller University*

Helene Jordan Appointed Director of Press

Helene J. Jordan, a science editor for more than two decades and editor of The Rockefeller University Press since 1966, was appointed director of the Press on July 1. She had been acting director since February, following the retirement of William A. Bayless.

Among the publications of the Press are books of interest to the scientific community and to the science-minded public. Mrs. Jordan served as editor of two volumes of *The Neurosciences* and of a three-volume *Biology and Behavior* series as well as *Science and the Evolution of Public Policy*, *The Greatest Adventure*, and, more recently, *Heraclitean Fire* by Dr. Erwin Chargaff, *The Question of Animal Awareness* by Professor Donald R. Griffin, and *The Professor, The Institute, and DNA* by Professor René Dubos.

The Press also publishes five scholarly journals: *Biophysical Journal*, *The Journal of Cell Biology*, *The Journal of Clinical Investigation*, *The Journal of Experimental Medicine*, and *The Journal of General Physiology*.

Before joining the University, Mrs. Jordan was executive editor of *Natural History* magazine. She has worked as an industrial and institutional public relations writer, has been a consultant to a number of publications and associations, and has edited three editions of the textbook *Basic Neurochemistry* (Little, Brown & Co.). She also writes children's books on nature subjects.



Promotions for Mrs. Gass, Mrs. Duncan



Mrs. Gass, left, and Mrs. Duncan.

Violet R. Gass, a member of the laundry and linen service since 1959 and forelady since 1966, has been appointed supervisor,

succeeding William T. Hertwig who retired June 30. Atlean Duncan, a member since 1960, has been named assistant supervisor.

Long service typifies the laundry. Norma Lumsden has been there for 19 years, Mary E. Collins for 17 years, and Victor Chase for 16 years. Newcomer Charles Smith arrived in July to fill the necessary complement of six. Mrs. Gass believes that this loyalty is a testimony to Mr. Hertwig's leadership, and has asked *news and notes* to express "the thanks of all the staff" for the help and encouragement he gave. "We've always been like a family here," she says. "I'm happy that his retirement will give him a chance to relax, but I felt like crying when he left."

The new supervisor, who now becomes a member of the Metropolitan Laundry Managers Association, is a native of South Carolina. A resident of Brooklyn, she is the mother of a grown daughter, Mrs. Patricia Davenport, a day care center worker, and describes her favorite form of relaxation as "having fun with my grandchildren."

Let's Do It Again

During the past school year, 35 scientists from Rockefeller, New York Hospital-Cornell Medical Center, and Memorial Sloan-Kettering served as volunteer tutors at P.S. 183, 419 East 66th Street, to supplement the school's science curriculum, severely curtailed by city budget cuts. The program was so successful that P.S. 183 has been designated a "magnet school" for science and awarded a \$50,000 federal grant.

"We're very excited and pleased about this," says Dr. Vincent Monnier of Rockefeller, a school parent and organizer of the tutoring program, "but with further city cuts coming up, we must keep the volunteer program going. Twenty-five of us are able to continue. We need another ten volunteers. If we get that number, each tutor will have to give only five hours during the year."

The subjects taught are elementary biology, chemistry, and physics for grades four, five, and six. Those interested can call Dr. Monnier on extension 1096, or write him at box 277.

High-Energy Physicists Speed Up Biology



In the physics lab: left to right, Richard Heidecker, Konstantin Goulianios, Karen Kaye Smith, and Sebastian White.

A new apparatus that significantly improves a method for biological analysis has been reported by three Rockefeller scientists, two of whom are physicists.

Although biologists and physicists speak different dialects, curiosity is the common language of scientists. Professors Konstantin Goulianios and Sebastian White, whose usual business is the behavior of subatomic particles whipping around accelerators, regularly attend the University's Friday research colloquia, most of which are on biological subjects, "always hoping," as Dr. White says, "to absorb something."

On one such afternoon, the lecturer discussed a variety of results obtained by gel electrophoresis, a widely used technique for separating and identifying biological molecules. Mixtures of radioactively labeled molecules—proteins, RNA, DNA—migrate through a thin layer of viscous material—the gel—under the influence of an electric field. Because of their different rates of mobility, the different types of molecules migrate to different positions in the gel, forming distinct bands. The resulting electrophoretogram, as it is called, provides a means of identifying the molecules according to the positions of the bands and also provides information on the number of molecules in each band. The electrophoretograms are analyzed by slicing the gel and dissolving the pieces for scintillation counting or by exposing the gel to a photographic emulsion, a process called autoradiography. Both methods require from several hours to several days to obtain results.

Doctors Goulianios and White found the lecture "very exciting" because "we understood it." The process of detecting radiations and locating them is a common procedure in physics. They thought that some of their own recent studies on new kinds of chambers used in their experiments might be useful in improving the technique. Enlisting the aid of Graduate Fellow Karen Kaye Smith, who works with Professor Sidney Strickland in the chemical biology lab of Professor Edward Reich, and of Machinist Richard Heidecker of their own lab, and with advice and encouragement from Professors Rodney Cool and Harry J. Sticker, respectively the head and a fellow member of their experimental phys-

ics group, Professor Peter Model of the genetics lab, and Professor Nicola Khuri, a theoretical physicist, they set out to build a better gel "reader."

The apparatus they designed is simple to construct and works with readily available electronics. (Details of its construction and mode of operation are described in a paper in the March 1980 issue of *Analytical Biochemistry*.) The Goulianios-Smith-White electrophoretogram scanner combines the counting ability of gel slicing with the position resolution of autoradiography and gives the answers in about 15 minutes. It represents a considerable saving in time, effort, and radioactive material generated; and it has won the hearty approval of, among others, the members of the cell biology lab of Professor Vincent G. Allfrey, where it has been in use for some months. It is currently being readied for commercial production by a scientific instrument company.

HONORS & AWARDS

Adjunct Professor **Robert K. Merton**, University Professor Emeritus, Columbia University, received an honorary doctor of laws degree from Harvard University on June 5. On June 30, he received an honorary doctor of philosophy degree from The Hebrew University of Jerusalem.

Professor Karl Maramorosch of the Rutgers University Waksman Institute of Microbiology, has received the 1980 Wolf Prize in Agriculture. The \$100,000 award is given by the Wolf Foundation in Israel. Dr. Maramorosch was a member of the Rockefeller scientific staff from 1949 to 1961. He has done pioneering research on insects that carry viruses which affect plants.

Teachers Learn

During the month of July, 25 New York junior high school science teachers got a chance to be working laboratory scientists—five of them at Rockefeller—as part of a new program jointly sponsored by the University, the New York Academy of Sciences, and Teachers College, and funded by a National Science Foundation grant. Professor Philip Siekevitz served as principal investigator. The program was coordinated by Bonnie Brownstein, director of educational programs at the academy.

The Rockefeller scientists with whom the participants worked were George Drummond, Metabolism-Pharmacology; Ann Ho, Biology of Addictive Diseases; Vincent Monnier, Medical Biochemistry; Bruce Schneider, Human Behavior and Metabolism; and Patricia Wade, Cell Biology.

PERSONALS

Postdoctoral Fellow **David S. Adams**, Cell Biology, was married on May 18 to Sumi L. King, a student at the University of Texas Medical School, Houston.

Professor **Carl F. Beyer**, Biochemical Cytology, was married on August 23 to Barbara Ann Conley, a medical student at the George Washington University School of Medicine.

Research Associate **John R. Lloyd**, Mass Spectrometry and Gaseous Ionic Chemistry, was married on August 23 to Dr. Nancy Marie Golembeski, a research chemist at Union Carbide Corporation, Bound Brook, New Jersey.

Dubos Center Opened

On September 15, opening ceremonies were held for the new headquarters of the René Dubos Center for Human Environments, in Glyndor House on the Wave Hill estate in Riverdale.

The center is an outgrowth of the René Dubos Forum, initiated in 1975 by Dr. Dubos in collaboration with Total Education in the Total Environment, a nonprofit organization that organized the center with support from the National Endowment for the Humanities. Its purpose is to gather and make available information on successful examples of environmental rehabilitation as a means of spreading the message, dear to Dr. Dubos' heart, that ecological damage is reversible if people have the tools, the information, and the "social will" to do it.

In more than half a century at Rockefeller, Dr. Dubos has pioneered in biological research, primarily in the areas of antibiotics and tuberculosis. In recent years, he has directed his activities toward considerations of human health and well being in the context of the effects of the social and ecological environment.

At the ceremonies, Dr. Dubos, who is chairman of the center's board of trustees, announced the appointment of Tom McCall, former governor of Oregon and a leading environmentalist, as chairman of the executive committee. Dr. Dubos' wife, Jean, is a center trustee. University Trustee Marian Heiskell, Professor Jules Hirsch, and Helene Jordan, director of The Rockefeller University Press, are members of the center's advisory board.



Dr. Dubos at opening of new center, Governor McCall.