

11-1988

NEWS AND NOTES 1988, VOL.20, NO.1

The Rockefeller University

Follow this and additional works at: http://digitalcommons.rockefeller.edu/news_and_notes_1988

Recommended Citation

The Rockefeller University, "NEWS AND NOTES 1988, VOL.20, NO.1" (1988). *News and Notes 1988*. Book 1.
http://digitalcommons.rockefeller.edu/news_and_notes_1988/1

This Book is brought to you for free and open access by the The Rockefeller University News and Notes at Digital Commons @ RU. It has been accepted for inclusion in News and Notes 1988 by an authorized administrator of Digital Commons @ RU. For more information, please contact mcsweej@mail.rockefeller.edu.

The Rockefeller University

October-November 1988
Volume 20, Number 1

News and Notes

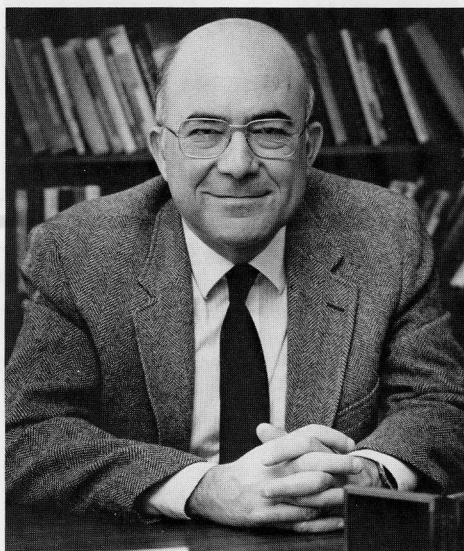
Emil Thomas Kaiser 1938-1988

Emil Thomas Kaiser, 50, Patrick E. and Beatrice M. Haggerty Professor and head of the laboratory of bioorganic chemistry and biochemistry, died on July 18 from immunosuppressive complications following earlier kidney transplant surgery.

In his notice to the campus community, President Lederberg mourned Dr. Kaiser's death, "at the pinnacle of a brilliant career in one of the most promising areas of biological research," as not only a tragic loss for science, but "a deep personal privation for all of us who came to know, esteem, and cherish this kind and gentle man."

Born in Budapest, Hungary, on February 15, 1938, Dr. Kaiser earned a B.S. degree from the University of Chicago in 1956 and a Ph.D. from Harvard University in 1959. He returned to the University of Chicago as a faculty member in 1963 and was appointed professor in 1970 and Louis Block Professor in 1981. He came to Rockefeller in 1982 and in 1984 was named the first Patrick E. and Beatrice M. Haggerty Professor.

His research centered on the chemical, physical, and biological properties of proteins and peptides. His studies of synthetic enzymes and other polypeptides advanced basic understanding in ways that had important implications for medicine. Among his achievements, he designed and synthesized peptides that can bind to fats and DNA; he isolated and characterized a naturally occur-



E. T. Kaiser

ring peptide that prevents the formation of kidney stones; and he and his associates produced a more active form of calcitonin, a peptide hormone used in the treatment of Paget's disease and other bone disorders.

At the time of his death, he and his group were working on the creation of synthetic peptides with therapeutically useful hormone-like properties, based on a novel theory he had worked out concerning the structural bases of biological specificity.

"He brought a remarkable expertise in bioorganic chemistry to bear on the study of
(continued on page 3)

\$6 Million Grant from Beckman Foundation

The University has been awarded a \$6 million grant from the Arnold and Mabel Beckman Foundation for the establishment of the Arnold and Mabel Beckman Fund for Biomedical Research, which will be used to endow four graduate fellowships and provide supplemental support for postdoctoral fellows and for new research initiatives by Rockefeller senior scientists.

"This magnificent investment in the future of biomedical science at the University has particular meaning for us because of the many fruitful collaborations our scientists have enjoyed with Dr. Beckman and his associates for several decades," says President Lederberg.

Arnold O. Beckman, a chemist who earned a Ph.D. at the California Institute of Technology and served for a number of years on its faculty, in 1935 founded Beckman Instruments, Inc. (now a subsidiary of SmithKline Beckman Corporation), a major manufacturer of products for use in science, medicine, and technology. In July 1988 he was awarded the National Medal of Science and Technology.

Dr. Beckman worked with Professors Stanford Moore and William Stein to produce a commercial version of the automatic amino acid analyzer developed by the two Rockefeller scientists in 1959 for deciphering the chemical structure of proteins. Beckman
(continued on page 4)



Jerry Weisbach

Weisbach to Direct Technology Transfer

Jerry A. Weisbach, formerly vice president of Warner-Lambert Company and president of Warner-Lambert/Parke-Davis Pharmaceutical Research Division, was appointed director of technology transfer at the University on September 1.

In this newly created post, he will be responsible for overseeing the technical aspects of partnership and licensing agreements with commercial firms for the development of products and processes discovered through Rockefeller research.

A summa cum laude graduate of Brooklyn College, Dr. Weisbach holds a Ph.D. in organic chemistry from Harvard University and an honorary doctor of science degree from Eastern Michigan University.

His special interest has been the discovery and development of medicinal agents. For 19 years before joining Warner-Lambert in 1979, he was associated with Smith Kline and

French Laboratories, where his last position was vice president for research. The author of 93 publications and 33 patents, he served as chairman of the Gordon Research Conference on Medicinal Chemistry in 1979, and from 1983 to 1985 was chairman of the Research and Development Section of the Pharmaceutical Manufacturers Association. He was a visiting professor at the University of Michigan during the 1988 academic year. He is a member of a number of professional and honorary societies, including Phi Beta Kappa and Sigma Xi.

Since coming to the Rockefeller campus in April in a consultant capacity, he has been meeting with faculty members to help acquaint and assist them with the various kinds of patent, licensing, royalty, and research funding arrangements that can be negotiated with industry consistent with the University's
(continued on page 3)

Sumi Koide Dies

Sumi L. Koide, 27, a student in the Rockefeller-Cornell Medical College M.D.-Ph.D. program, died on September 19, an apparent suicide. A member of the biomedical fellows program since 1982, she had received her Ph.D. at Rockefeller last June and was in her final year of medical training at Cornell. She was characterized by her mentors at both institutions as an exceptionally gifted student.

From her undergraduate days at Princeton, where she was an honors student in biochemistry, Dr. Koide had pursued an interest in the problems of infectious disease and immune defense. In presenting her for her Ph.D. degree, Professor Ralph Steinman described her thesis research in the laboratory of cellular immunology and physiology as having provided "essential information on the mechanism of action of the dendritic cells" (a class of white cells discovered in Dr. Steinman's laboratory), "as well as new insight into the general problem of how a foreign antigen triggers an immune response."

At the request of her parents, Dr. Samuel S. Koide, associate director of the Population Council, and Dr. Sumi Matsuda-Koide, associate professor of pathology at Montefiore Medical Center and Albert Einstein College of Medicine, and her brothers, Mark and Eric, a memorial fund in Sumi Koide's name has been established for support of the graduate program at Rockefeller. Contributions and inquiries should be directed to the University's development office.

Briefs

Trustee Chairman **William O. Baker** and Executive Vice President **Rodney W. Nichols** have been appointed to the Advisory Council to the Carnegie Commission on Science, Technology, and Government. The main purpose of the Commission, formed in April 1988 and co-chaired by President Lederberg and Rockefeller University Council member William T. Golden, is to seek ways in which the branches of government can encourage and use the contributions of the national scientific community.

Professor **Arthur K. Balin**, Investigative Dermatology, spoke on "Skin as a Biomarker For Aging" at the 18th Annual Meeting of the American Aging Association, held in San Francisco, October 7. His talk was part of a symposium entitled "Estimation of Human Physiologic Age," which he organized. Dr. Balin is president of the Association.

Research Associate **Richard Breedon**, Experimental Physics, spoke on "Forward Elastic Proton-Proton and Proton-Antiproton Scattering" at the XIXth International Symposium on Multiparticle Dynamics, held in Arles, France, June 13-17.

Professor **Joel E. Cohen**, Populations, lectured in China during June, July, and August, on food webs, population projections, malarial epidemiology, and applied mathematics. He gave invited plenary addresses at the Conference on Theoretical Bio-
(continued on page 6)



Tony Fusco's retirement party on September 8 brought together current and former co-workers to wish him well. Top, from left: Elbin Diaz, foreman, Tony Fusco, Ann Fusco, and Supervisor Gunther Ebert. Above left: Ken Schmidt, retired. Above right, from left: Retirees Johann Schweinsteiger, Herman Richter, and Bob Channel with Mrs. Richter, Gunther Ebert and Julien Rouse, maintenance plumber.

Tony Fusco Sends Thanks

Anthony Fusco, who retired as maintenance electrician on September 9, has asked *News and Notes* to extend his thanks for the party, and for the gifts and warm wishes he received.



Baker, Ramsey Awarded Medal of Science

William O. Baker, chairman of the board of trustees, and Trustee Norman F. Ramsey were among this year's recipients of the National Medal of Science, presented by President Reagan on July 15.

Dr. Baker, retired president and chairman of Bell Laboratories, was honored for his pioneering studies of the complex relationships between the molecular structures and physical properties of polymers, for a distinguished record of leadership in science and engineering, and for distinguished service to government and education. Dr. Ramsey, Higgins Professor of Physics at Harvard University, was honored for his seminal investigations in the broad areas of atomic, molecular, and nuclear physics, and for his dedicated service to the nation and to the scientific community.

Honors and Awards

Professor **Christian de Duve**, Biochemical Cytology, has been elected a Foreign Member of the Royal Society (London).

Professor **Emil C. Gotschlich**, Bacteriology and Immunology, has been elected to the membership of the Institute of Medicine.

Appointments

Stephen Dinardo, as assistant professor and University Fellow, effective July 1.

Stephen S. Morse, Laboratory Animal Research Center, and **Barbara C. Sorkin**, Developmental and Molecular Biology, as assistant professors, effective September 1.

New Students

The University's new students include 22 graduate fellows and six biomedical fellows.

The new graduate fellows who will work toward a Ph.D. are Thomas Akompong, University of Ghana and Meharry Medical College; Nathan Bahary, Cornell University and Cornell University Medical College; Miriam Berger, Stern College of Yeshiva University; Chih-Hao Chou, Taipei Medical College; Scott Dougan, Brown University; Mark Forman, Yale University and Duke University School of Medicine; Julie George, Texas A&M University; Pierre Gönczy, University of Geneva; Alexander Hoffman, University of Cambridge; Erich Jarvis, Hunter College of The City University of New York; Lynne Lapiere, Southeastern Massachusetts University and Boston College; Ramsunder Malini Vashishtha, All Indian Institute of Medical Sciences; Christopher Marshall,

Ludwig Maximilians University, Claudio Mello, University of Brasilia Medical School; Andrew Millar, University of Cambridge; Philippe Moreillon, University of Lausanne, Medical School of Lausanne; Michael Overduin, Wilfrid Laurier University; José-Maria Prats, University of Barcelona; Vincent Prezioso, State University of New York at Stony Brook; Marga Theelen, National Autonomous University of Mexico; Jiang Zhao, Fudan University; and Weiman Zhong, Peking Union Medical College.

The new biomedical fellows who will work towards a Ph.D. from The Rockefeller University and an M.D. from Cornell University Medical College are Richard Bernstein, Cornell University; Joel Blankson, Queens College of the City University of New York; Gregg Caporaso, Cornell University; Sandy Chang, Yale University; and Barbara Sampson, Princeton University.

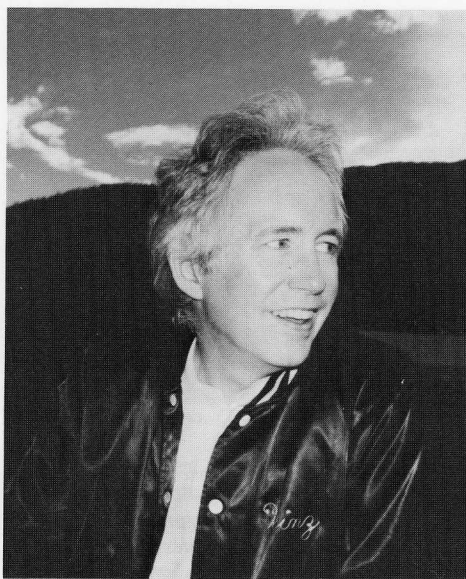
Pagels Killed in Accident

Adjunct Professor Heinz R. Pagels, executive director of the New York Academy of Sciences and a member of the Rockefeller physics faculty for 22 years, died in a mountain-climbing accident in Aspen, Colorado, on July 23. He was 49.

A theoretical physicist, Dr. Pagels's area was relativistic quantum field theory and cosmology. He was also the author of three highly regarded popular books on science, *The Cosmic Code*, *Perfect Symmetry*, and *Dreams of Reason*, which was published this year.

He earned a bachelor's degree at Princeton University and a Ph.D. at Stanford before coming to Rockefeller in 1966. He left his post as associate professor to accept the directorship of the New York Academy of Sciences in 1983, but he remained actively involved in Rockefeller research, and presented his most recent student, Seth Lloyd, for the Ph.D. degree at last June's commencement ceremonies.

He was a trustee of the New York Hall of Science and the Marconi International Fellowship Council, and served on the Science and Law Committee of the New York Bar Association and the High Technology Committee of the New York City Partnership. He was a member of the Council on Foreign Relations and a fellow of the



Heinz Pagels. Photo taken by his wife, Elaine Pagels, in Aspen, Colorado, on July 19, 1988.

New York Institute of the Humanities at New York University.

A man of conscience as well as intellectual achievement, Dr. Pagels worked with characteristic energy and effectiveness for the International League for Human Rights and the Helsinki Watch Committee. In his honor, an award presented by The New York Academy of Sciences will now be called the Heinz Pagels Award in recognition of services on behalf of the Human Rights of Scientists.



Ana Martinez, third from right, with, from left, Timothy McDonald, Kathy Kleinbard, Christine D'Amico, Elizabeth Straight, Philip Manning, and Cecilia Cardona.

Weisbach (continued from page 1)

mission and policies. He is working closely with Executive Vice President Rodney W. Nichols, Vice President and General Counsel William H. Griesar, other officers and staff, the University's outside legal advisers, as well as the board of trustees' University-Industry Relations Committee.

In announcing Dr. Weisbach's appointment, President Lederberg states, "After an extensive national search we are delighted that Jerry Weisbach accepted our invitation to focus and enlarge our growing, productive partnerships with industry. Our aim is to serve the best interests of the University and our faculty—within our traditional emphasis on basic science—in a period of rapidly accelerating biotechnological advances arising from research."

Kaiser (continued from page 1)

numerous problems of biochemistry," said Professor Bruce Merrifield. "His insight into the role of amphiphilic helical structures in the action of the bee venom peptide melittin and the analgesic peptide beta-endorphin was pioneering. Equally important, his recent conversion, by semisynthesis, of a hydrolytic enzyme into one with oxidation reduction properties achieved a long-sought goal in biochemistry."

Dr. Kaiser's work earned him election to membership in the National Academy of Sciences and the American Academy of Arts and Sciences and the Arthur C. Cope Scholar Award of the American Chemical Society, among other honors, and he served on numerous editorial and advisory boards and committees.

Jean Dubos Dies

Jean Porter Dubos, 70, widow of Professor René Dubos and his research assistant at Rockefeller during the 1940s, died of cancer on August 6.

Trained as a microbiologist, Mrs. Dubos worked with her husband on his laboratory studies of tuberculosis and also collaborated with him on a number of books. Among them she was co-author of the now-classic *The White Plague—Tuberculosis, Man, and Society*, published in 1950 and recently reprinted.

In the years after Dr. Dubos's death in 1982, Mrs. Dubos worked with Dr. Carol Moberg, who is writing an annotated Dubos bibliography.

Citizens Not Exempt

If you or someone you know is going to be job hunting, you should know that the new law requiring employees to provide employers with documents proving their eligibility to work in the United States applies to everyone—citizens and aliens alike. To find out what documents are acceptable, you can call the Immigration and Naturalization Service at 1-800-777-7700, or the University's personnel office at extension 8300.

Manning Succeeds Martinez at Pharmacy

Philip Manning, Hospital pharmacist since 1979, has assumed Ana Martinez's position as chief of the pharmacy.

Ms. Martinez, who started at Rockefeller as a pharmacist's helper more than 20 years ago, has left to join her husband in Potomac, Maryland. She and her husband, Howard Dickler, who was a postdoctoral fellow at Rockefeller during the early 1970s, are expecting a child. She will be working at The Medlantic Research Foundation in Washington, DC.

Kathy Kleinbard, administrator of the Hospital, says, "Ana ran a superb pharmacy and she will be greatly missed. We are fortunate to have Philip to assume the leadership."

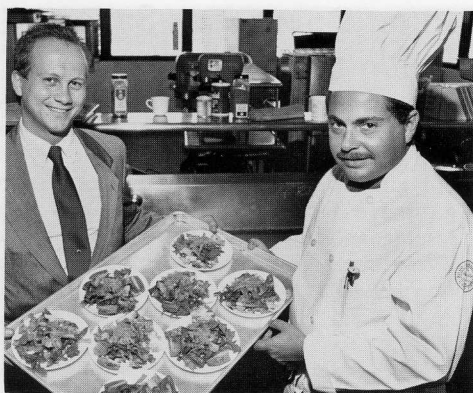
Promotions

Angela Granelli-Piperno, Cellular Physiology and Immunology, to associate professor, effective July 1.

Personals

Graduate Fellow **Melanie Smith**, Molecular Biology, was married on September 18 to Thomas John O'Brien, a computer graphics specialist at Swarthmore College.

Born to Professor **Sebastian White**, Experimental High Energy Physics, and his wife, Kristin, twin daughters, Camilla Claire and Phoebe Kristin, on July 19.



Heath Braunstein and Chef Clifford Sussman.

Plant Operations Saves Energy

These days, high-tech research in high-tech buildings requires high-tech power-supply engineering, says Thomas P. McGinnity, physical facilities director. In anticipation of additional power supply requirements resulting from the new laboratory building, scheduled for completion during 1991-92, and to decrease the amount of energy Rockefeller purchases from Con Edison, he and his team designed a state-of-the-art cogeneration plant. Installation began last winter.

The new plant can produce almost half of the University's minimum energy needs, and Mr. McGinnity calculates that the system will have paid for itself in two to three years with the money it saves.

In August, a U.S. Department of Energy delegation of 30 people from as many states visited Rockefeller's cogeneration plant, considering it a prototype for similar projects elsewhere in the country.

One of the system's turbine engines was installed last December; two more arrived this fall. Installation requires closing FDR drive, lots of staff cooperation, and a crane operator's microsurgery-like precision to get the engines through a window on the ground level of the Power House. "You couldn't have wedged a beer can between the engine and the opening," recalls Mr. McGinnity.



The Metropolitan New York Branch of the American Association for Laboratory Animal Science hosted a meeting in the Tower Building on September 15, "The Real Beneficiaries of Animal Research." The speaker was Steve Carroll, center, executive director of the Incurably Ill for Animal Research, an organization founded to counter attacks on medical research by animal rights groups. With him are Dr. Michael Hayre, assistant director of LARC, left, and LARC Postdoctoral Fellow Thomas Donnelly.

New Cafeteria Manager

Have you noticed that the cafeteria now offers croissants at breakfast? That's thanks to Heath Braunstein, the cafeteria's new manager. Succeeding Jean Alexander, who retired in July, he comes to Rockefeller from Irving Trust's food service, operated by the Marriott Corporation.

Mr. Braunstein received his B.A. from the School of Hotel and Restaurant Management at Michigan State University in 1984. He had been an engineering student first but found food service more rewarding. "You always eat well in this business," he says.

In addition to managing the cafeteria, he will be working with Food Service Director Jeremiah Barry catering special events.

While his main goal is to continue the University's tradition of high quality food preparation and service, Mr. Braunstein says he may introduce new items—besides croissants—to the cafeteria's menu. He welcomes suggestions or comments.



Braving last winter's cold, members of plant operations' staff help to guide a turbine engine, part of the new cogeneration plant, through a window of the Power House.

E.G.D. Cohen Honored

A symposium was held in honor of Professor E.G.D. Cohen, Theoretical Physics, at the University of Maryland, on September 26, entitled "Current Topics in Statistical Physics." Professor Mitchell Feigenbaum, Mathematical Physics, was one of 12 speakers at the symposium, which was sponsored by the U.S. Department of Energy's Office of Energy Research and the University of Maryland's Institute for Physical Science and Technology.

RU Photo Show

Members of the campus community and their spouses are invited to submit photographs for The Rockefeller University Photo Show, to be held March 8-29 in Founder's Hall lobby. Further information and entry forms will be forthcoming from Kate Cameron.

Alumni Briefs

Richard Cellarius (1965) has been named president of the Sierra Club. A member of the club's board of directors for 11 years, he is a biology and environmental studies professor at Evergreen State College, Olympia, Washington.

George L. Gaunt (1973), director of The Center for Reproductive Medicine, Charlotte, North Carolina, headed the team responsible for the birth on May 10 of North Carolina's first twins conceived through ultrasound-directed oocyte retrieval and subsequent fertilization in vitro.

John Marchalonis (1967) has been appointed chairman of the department of microbiology and immunology, University of Arizona. He was formerly chairman and professor of the biochemistry department at the Medical University of South Carolina, Charleston, and, before that, was head of the cell biology and biochemistry section of the Cancer Biology Program, Frederick Cancer Research Center, Frederick, Maryland.

Martin L. Yarmush (1979), formerly a principal research associate in the Department of Chemical Engineering, Massachusetts Institute of Technology, has joined Rutgers University as professor of biochemical engineering and biochemistry and as director of the Hybridoma Network Laboratory in the Center for Advanced Biotechnology and Medicine. He also has won a 1988 Presidential Young Investigator Award.

Grant (continued from page 1)

Instruments also adapted for manufacture a solid-phase peptide synthesizer, the prototype of which was created in the 1960s by Professor Bruce Merrifield as a quick and ingenious method for making peptides and proteins in the laboratory. These instruments, which earned the Nobel Prize in chemistry for Drs. Moore and Stein in 1972 and Dr. Merrifield in 1984, helped to revolutionize protein research.

The Arnold and Mabel Beckman Foundation was established in 1977 by Dr. Beckman, who serves as foundation president, and his wife for the advancement of education and research.

In awarding the current grant to The Rockefeller University, Dr. Beckman states, "Mrs. Beckman and I appreciate the leadership role of The Rockefeller University in the field of biomedical research, and we are happy to offer our support. We are confident that the University will continue its tradition of making major scientific discoveries and developing them for the benefit of mankind."

A previous grant to the University of \$1.5 million supports the Arnold and Mabel Beckman Professorship, held by Dr. Robert G. Roeder, Biochemistry and Molecular Biology, who was elected this year to membership in the National Academy of Sciences.

RU Press Moves Up

With added staff, updated equipment, and new projects, The Rockefeller University Press is rolling after a move uptown.

The Press, which used to be in the Nurses' Residence, now has offices at 222 East 70th Street, in a residential/commercial building designed by Ted Reeds Associates and completed in 1987 for University housing. The building also houses the regional offices of The Howard Hughes Medical Institute.

The move gives the Press twice as much space but took a lot of energy to complete. "We couldn't have done it without Kate," says Press Director Bradley Hundley, referring to Kate Cameron, the University's interior designer.

Laura Ghiorso has become assistant to the director and Debbie Russ has assumed the design and production responsibilities. The staff has gained David Carbona, responsible for the mail room, and Receptionist Rita Shukow.



Martha Kellar, left, production-editorial manager in the Journals Office, Harold Mattsson, Order Service supervisor, and Vera Smith, office manager.

The Press, which publishes five monthly scientific journals, recently installed an in-house fulfillment system that keeps track of some 20,000 subscriptions. In addition to giving the Press greater control of its subscriber records and label runs, the system has specially designed software for journal author billing—a function previously carried out by the journal printers. Joyce Buffa, who has been with the University for 14 years, oversees the new system as supervisor of subscription fulfillment.

New desktop publishing equipment also increases the Press's capabilities. The *Calendar of Events* is now created from start to finish



Gwendoline Keyes, center, who retired on September 9 after 17 years as night charge nurse, receives a gift from Elizabeth Straight, director of nursing services, at a farewell tea party.



From left, Joyce Buffa, fulfillment supervisor, Raymond Fastiggi, Press accounts manager, and Elizabeth Kellerhals, Order Service secretary.

on the computer. Plans are underway to apply these new technologies to *News and Notes*. "Computers have finally made it to the pen and pencil set," says Mrs. Hundley, who has been with Rockefeller since 1979.

Scientific and Educational Programs, the *Faculty and Student Handbook*, and the photo directory also are published by the Press. Among its book projects, the Press recently published Professor Christian de Duve's *A Guided Tour of the Living Cell*, Volumes I and II, in collaboration with the Scientific American Library Series. A book by Professor Floyd Ratliff, *Paul Signac and Color in Neo-Impressionism*, is in the works.

Although Press staffers lament that their new location lacks the Rockefeller campus's atmosphere, they are pleased with the move overall. "The campus community needs to know that the full services of the Press are still available," says Mrs. Hundley. "With more room, more staff, and better facilities, we actually have more to offer."



Director Bradley Hundley with Kathleen Ghiorso, promotions manager, and Steven Baeck, editorial assistant.

Holiday Hoopla

The University's annual Holiday Festivity, hosted by President and Mrs. Lederberg, will be held on the 17th floor of the Tower on Thursday, December 15, from 3 to 5 P.M.

The annual Holiday Dance will be held on Friday, December 9, from 8 P.M. to 1 A.M., on the 17th floor of the Tower. Tickets for the dance, which will feature an open bar, buffet dinner, and the Gary Andrews Orchestra, will be available at Purchasing, Founder's Hall reception desk, the Faculty and Students' Club, and the Hospital Office.

Dress is optional.

Plant Operations Saves Day

Just before 5:00 P.M. on Tuesday, August 16, one of the hottest days of an abnormally hot and humid summer, Security Guard Ian Huggins smelled smoke at the 66th Street gate. He notified plant operations, and Maintenance Electrician Frank Colosi traced it to a transformer in the 66th Street substation between the guard house and Caspary Auditorium. The prospect of a power loss, particularly at the height of the summer's heat, threatened laboratory research across the north campus.

"We had to cut the power load and cool the transformer fast," recalls Physical Facilities Director Thomas P. McGinnity. "Everyone still on campus pitched in."

While plant operations' maintenance shop rigged up an air system to cool the transformer, the custodial staff, under the direction of Lillie Mae Curry, Octavius Ferebee, Luis Matos, and men of the boiler house, went through labs turning off lights and major equipment. Working through the night, the emergency team managed to keep the transformer alive, sparing labs and computer services.

The south campus survived the heat thanks to extra energy supplied by a new cogeneration plant. (see story on page 4) By next summer, that system, plus an additional substation transformer, will be in operation on the north campus.

John Riordan Dies

Mathematician John F. Riordan, a member of the University's adjunct faculty from 1968 until his retirement in 1985, died on August 27 at the age of 85.

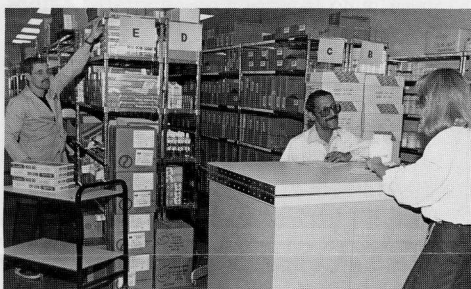
An authority in the field of combinatorial mathematics, he was associated with Bell Laboratories for 42 years before coming to Rockefeller, where he worked closely with Professors Mark Kac and Peter Sellers.

Deaths

Ely A. Perlman, 74, an allergy specialist at Long Island Jewish Medical Center, and a researcher at Rockefeller, during World War II on July 20.

Stanfield Rogers, 68, a retired University of Tennessee, Memphis, biochemistry professor and genetic researcher, who worked at Rockefeller in the late 1940s, on August 4.

Robert F. Watson, 78, retired physician-in-chief and professor of New York Hospital's Vincent Astor Diagnostic Service, and formerly chief medical resident at The Rockefeller Hospital, on June 29.



The purchase and supply service has moved to new, expanded quarters in the Plaza Building. Standing in the reception area are, from left, Angie Dohnert, secretary, James J. Stewart, director and chief pharmacist, Sonia Espejon-Reynes, senior purchasing agent, and Robert F. Luckey, associate director and pharmacist. Frank Aubert, shipping and receiving clerk, at the counter, and James Stiasny, stock clerk, help a customer in the new ultramodern storeroom, left.

Briefs (continued from page 2)

physics, in Huhehot, and the International Conference on Biomathematics, in Xian, a course on stochastic population models at Beijing Normal University, and lectures at Inner Mongolia Agricultural University, in Hehehot, Southwest Agricultural University, in Chongqing, Hubei University, in Wuhan, Zhongshan University, in Guangzhou, East China Normal University and the Institute of Parasitic Diseases, in Shanghai, and the Institute of Zoology, Chinese Academy of Sciences, Beijing.

Professor **Louise Dolan**, Theoretical Physics, was a convenor of the parallel sessions on Strings and Superunification of the Division of Particles and Fields meeting of the American Physical Society, in Storrs, Connecticut, August 15-18. She also gave invited talks on "Superstrings and Conformal Field Theory" there, as well as at the Strings '88 Conference, at the University of Maryland, May 24-28, and at the Second Meeting on Applications of Group Theory to Math-Physics, held in Athens, Georgia, July 6-15.

Associate Professor **David C. Gadsby**, Cardiac Physiology, gave an invited talk at a symposium, "The Mammalian Myocardium: Biochemical and Physiological Mechanisms Underlying the Heartbeat," in Leeds, England, July 24-27, and, with Dr. **Mami Noda**,

presented a poster presentation there and another at the annual meeting of The Physiological Society in Cambridge, July 23.

President Lederberg and Professor **Torsten Wiesel**, Neurobiology, spoke at the Marine Biological Laboratory, Woods Hole, as part of MBL's centennial celebration in July. President Lederberg's lecture, "Genetic Maps: Fruit Flies, People, Bacteria, and Molecules," examined the contributions of Thomas Hunt Morgan and Alfred F. Sturtevant, both among the first to study there in what was then the fledgling field of genetics. Dr. Wiesel spoke on "Neural Mechanisms of Visual Perception: The Legacy of Hartline and Kuffler."



Professor **David Luck**, Cell Biology, has been appointed to the National Advisory General Medical Sciences Council, National Institute of General Medical Sciences, which meets three times a year to review applications for research and research training grants. The council also makes recommendations to the Health and Human Services secretary, the director of the National Institutes of Health, and the director of the National Institute of General Medical Sciences on policy matters and science manpower needs related to the institute's programs.

Professor **Joseph T. McCabe**, Neurobiology and Behavior, addressed the International Society for Hypertension at a symposium entitled "Central Neural Mechanisms of Hypertension" in Okinawa, July 31. His talk was on "Strain Differences in Vasopressin Gene Expression in Normotensive, Hypertensive, and Diabetes Insipidus Rats."

Professor Emeritus **William Trager**, Parasitology, served as chairman of a Round Table Discussion on culture methods for *Pneumocystis carinii*, held on July 20, at the meetings of the Society of Protozoologists, in Bristol, England. On September 13 he gave the opening lecture at a symposium, "Hosts, Vectors, and Parasites," at the 52nd Congresso Nazionale dell'Unione Zoologica Italiana, held at the University of Camerino.

Professor **Victor J. Wilson**, Neurophysiology, spent August 7-17 as a Grass Traveling Scientist of the Society of Neuroscience, in Mexico, where he gave seminars at the Polytechnical Institute and the National University. He also gave a plenary lecture, "The Tonic Neck Reflex: A Model for Motor Control," at the 31st Congress of the Mexican Physiological Society.

Continuing its long-standing policy to actively support equality of opportunity for all persons, The Rockefeller University forbids discrimination on the basis of race, color, religion, sex, age, national origin, or handicap. The Administration has an Affirmative Action Program to increase the employment of women and members of minority groups in all areas of the University's activities.

News and Notes is published five times a year from October through July. This is Volume 20, Number 1. Suggestions for articles are welcome and may be sent to *News and Notes*, Box 68, phone extension 8967. Photographs, page 1, 2, 4 top bottom left, 5 center, 6 top, John Sholtis; page 2, 5 top, left and bottom, Debbie Panitz; page 4 center, Marc Kaplan; page 6 bottom, Deborah Edelman. © 1988 The Rockefeller University, New York 10021-6399. Printed in the United States of America.

*Rockefeller staff and their guests spent a day of bird watching, hiking, and playing volleyball at the Open House of the Field Research Center in Millbrook, on October 1. At left, Dr. Stephen Nowicki, Animal Behavior, shows guests how to hold a bird properly. The bird is a *Dumetella caranensis*.*

A View from the Dean's Office

October-November 1988

New M.D.-Ph.D. Students

This issue will introduce the six new biomedical fellows. The 22 entering Ph.D. students will be introduced in succeeding issues.

A summer's volunteer work in the Emergency Room at Columbia Presbyterian Hospital convinced Richard Bernstein to pursue a career in medically oriented scientific research. Richard, who was born in New York City, graduated in 1988, with distinction from Cornell University, with a degree in the biological sciences. As a college junior, he won a Summer Research Scholarship from the Genetics Society of America and worked with Dr. Stanley Zahler at Cornell. Richard spent his first summer at RU working in Dr. Robert Roeder's biochemistry and molecular biology lab. When his schedule permits, Richard enjoys playing the drums and swimming.

Joel Blankson, a 1988 graduate of Queens College, CUNY, in biology, was awarded CUNY's Jonas Salk Award for Promise in Medical Research. Joel's childhood was divided between New York City, where he was born, and Accra, Ghana, where his family moved when Joel was nine years old. Though intent from an early age on a medical career, Joel chose to pursue a doctorate after a 1987 summer internship in the research and development department of Colgate-Palmolive. While working on an *in vitro* yeast assay to predict phototoxicity of chemicals on human skin, Joel found research to be "both fun and stimulating." During his first summer at RU, he worked with Dr. Margaret Perkins in Dr. Christian de Duve's laboratory of biochemical cytology.

Gregg Caporaso became familiar with RU and gained research experience through two summers' work with Dr. James Tam in Dr. Bruce Merrifield's biochemistry lab. His work concentrated on the synthesis and purification of a protein tumor growth factor. While his decision to study medicine was formed in high school, Gregg's desire for a research career crystallized after his work with Dr. Tam. In 1988 he graduated with distinction from Cornell University with a degree in chemistry and was named a Presidential Scholar. His junior year was spent at Queens College, Cambridge University, England, studying natural sciences. Gregg, who was born in Montclair, New Jersey, has traveled widely through Europe. In his spare time, he enjoys running, music, and photography.

Sandy Chang, who was born in Taipei, Taiwan, demonstrated his interest in science at an early age. While in high school in New York City, he won a Westinghouse Science Talent Award for his work involving the characterization of light curves of variable
(continued on page 2)

Junior Faculty-Student Seminar Series Organizers

The success of this year's Junior Faculty-Student Seminar Series was made possible by the efforts of Dr. Gloria Coruzzi, Dr. Jan Geliebter, Dr. Patricia Wade, and the 44 lab representatives who enthusiastically supported the biweekly Tuesday seminar. Speakers were chosen by a volunteer committee from the names and topics provided by the



First Year Students' Luncheon: Dean Anthony Cerami addresses the 1988 entering class at the luncheon held on September 8th.

John Sholtis

Biomedical Fellows Program

This year's entering M.D.-Ph.D. class is the 17th to participate in the joint Rockefeller University and Cornell University Medical College program. Begun in 1972 with five students, the program now numbers 43 graduates and 35 current students. The current program allows for six new biomedical fellows each year. Of these, five receive funding through The National Institute of Health's Medical Scientist Training Program. A private grant from the Andre and Bella Meyer Foundation funds an additional student for the first two program years. The NIH Medical Scientist Training Program is highly competitive and exists at only 29 of the nation's 108 M.D.-Ph.D. granting institutions. The program totals 728 participants overall and represents \$14.5 million of NIH funds.

The RU/CUMC program began in response to the decline in the number of scientifically trained physicians that became apparent in the early 1970s. Since its creation in 1901, Rockefeller has provided postdoctoral training in research for hundreds of medical doctors. The RU/CUMC program was one of the nation's first joint programs. Its aim was to establish a formal, cooperative program oriented towards a small group of students seeking research careers involving both basic and clinical science.

The RU/CUMC program, which normally takes six years, leads to a Ph.D. granted by RU and an M.D. degree awarded by CUMC. Biomedical fellows acquire experience in both clinical medicine and research, which

lab representatives. The series, which has speakers scheduled through April 1989, will represent an equal mix of invited and in-house speakers.

Dr. Jan Geliebter, a co-chair of the series, joined the University in January of this year as an assistant professor at the Howard Hughes Medical Institute.

Though born in Brooklyn, New York, Jan received his B.S. degree in biology at the Hebrew University of Jerusalem. His education was an ordeal by fire: he arrived in Israel with only a limited knowledge of Hebrew and a year before the outbreak of the Yom Kippur War. After surviving his first chemistry class taught in Hebrew during which a classmate was reduced to tears, Jan found the program to be a marvelous experience. He was involved in "constant science for six days a week" and challenged by the "hands-on orientation of the program."

After completing his B.S., he returned to the United States. In 1981, he received his
(continued on page 2)

DEANERY MOVE

The Dean's Office's long awaited move finally occurred on September 19. No longer tucked away in 202 Bronk, the Dean's Office now resides in well-appointed new offices on the first floor of Founder's Hall.

prepares them both to teach and pursue scientific research.

Competition for the program is fierce. An average of 135 applications are received for each year's six slots and applicants must pass separate admissions committees at RU and CUMC. For entering RU/CUMC students, the average Medical College Admissions Test score is 12.2, whereas the national test average is 7.8.

To fulfill the joint degree requirements, M.D.-Ph.D. students begin on July 1 and spend their first and subsequent summers at RU doing independent research. The first two years in the program are spent attending courses at Cornell. From their third through fifth years, students are engaged at RU in original thesis research.

While still in the program, biomedical fellows have a high rate of publication, with an average of over six published papers per student. Their work appears in the country's top scientific journals, including The Proceedings of the National Academy of Science, Science, and Journal of Biological Chemistry.

(continued on page 2)

Bargemusic, Ltd.

While other New Yorkers were fainting from the 95-degree heat on August 11, 25 fortunate Rockefeller students and faculty were partaking of music's pleasures in an air-conditioned barge moored on the Brooklyn side of the East River. Bargemusic, Ltd., the creation of violinist Olga Bloom, has played host to RU music enthusiasts for the last three years.

Every other Thursday night from June through August, a group of 25 RUites treks from 68th Street to the barge docked in the shadow of the Brooklyn Bridge. Bargemusic functions as a musical thank you from the Dean's Office to members of the Rockefeller community.

Against the backdrop of the Manhattan skyline festively alight in the early dusk, Ick-Choo Moon, pianist, and Nai-Yuan Hu, violinist, performed pieces that ranged from the whimsical Three Caprices for Solo Violin by Nicolo Paganini, to the unabashedly romantic Sonata for Violin and Piano in C minor by Edvard Grieg. Lulled into musical reveries, the audience of 150 was sheltered for two and a half hours from the less melodic strains of New York City life.



Barge Music, Ltd. From left, first row, Stephen Devoto; second row, Jane Tsai, Jessica Treisman; third row, Helen Vlassara, Anthony Cerami, Ellen Pure, Miki Rifkin, James Rubenstein, Frank Kuo, and Alan Aderem

New Students (continued from page 1)

stars. Sandy graduated magna cum laude from Yale University with a major in molecular biophysics and biochemistry in 1988. In 1985, he came to Rockefeller as a summer undergraduate researcher with Dr. Lu-Hai Wang in Dr. Hidesaburo Hanafusa's viral oncology lab. Sandy, who has continued to pursue his interest in astronomy, also played intermural basketball at Yale. This past summer, Sandy worked with Dr. Ding-E Young in Dr. Zanvil Cohn's cellular physiology and immunology lab.

Pratik Mukherjee graduated magna cum laude in 1988 from Yale University with a double major in computer science and psychology. His senior thesis was entitled, "A Hodgkin-Huxley Type Neural Model of Oscillatory Rhythms in Thalamocortical Relay Cells." Though born in Calcutta, India, Pratik grew up in New York City. During college, he did research work at the Albert Einstein College of Medicine and the Veterans Medical Center at West Haven. Pratik, who worked this summer in Dr. Bruce Knight's biophysics lab, intends to take a systems approach to brain and behavior. Squash, tennis, and fractals are his hobbies.

A 1988 graduate of Princeton University with highest honors in molecular biology, Barbara Sampson was born in New York City. Her undergraduate work was in bacterial genetics and resulted in a thesis entitled, "Isolation and Characterization of a Novel

Hyperpermeable Mutant of *E. coli*." During the summer of 1987, she worked at the Cold Spring Harbor Research Laboratory with Dr. Amar Klar. While at Princeton, she was a member of the varsity fencing team and also participated in several piano competitions. Travel in the Soviet Union has allowed her to pursue another nonscientific interest—Russian studies. During her first summer at Rockefeller, she worked in Dr. Jules Hirsch's human behavior and metabolism lab.

Seminar Series (continued from page 1)

doctorate in microbiology and immunology from the State University of New York at the Downstate Medical Center. From 1981 through 1984, he was an American Cancer Society postdoctoral fellow at The Albert Einstein College of Medicine. He became a research associate at Einstein in 1984. From 1985 until his transfer to RU, Jan held a National Cancer Institute training fellowship.

At Rockefeller his work centers on the murine histocompatibility complex. He is concerned with recombination in multigene families. Jan's approach has been to look at recombinant products in germ cells of normal mice. In the past, the procedure had been to look at the recombinant products in the form of mutant mice. In contrast, Jan screens the germline of normal mice for mutant genes. By using the polymerase chain reaction, he is able to amplify the gene of interest, so that it becomes the predominant species in a DNA mix. The gene then is cloned and screened for recombinations. The difference between methods equals 100,000 mice and \$960,000.

Jan, who is married and has a two-year-old daughter, ruefully admits that due to lack of time "he hasn't been able to tan professionally for years." However, when given the chance, camping, gardening, and cabinetry number among his favorite pursuits.

Dr. Patricia Wade, a research associate in Dr. Philip Siekevitz's cell biology lab, was not always intent on a research career. Born in Cedar Rapids, Iowa, she entered the University of Iowa with a major in English. After transferring to the University of California at Berkeley, she became intrigued by science and earned an A.B. in zoology and a Ph.D. in physiology there in 1978. Patricia's focus was neurobiology and she worked with Dr. Paola Timiras as an NIH training fellow. Her thesis work involved alpha-bungarotoxin binding and acetylcholinesterase in developing rat brain tissue.

Patricia came to Rockefeller in 1978 as a postdoctoral fellow in Dr. Siekevitz's lab. She was awarded a New York State Health Program fellowship in 1979. From 1980 through 1982, she held Muscular Dystrophy Association fellowships. For six months at the end of 1982, she held a postdoctoral position at Brandeis University, after which she returned to Rockefeller.

Her research interests center around the direct effects of visible light on cerebral cortical tissue. A substantial amount of light has been found to enter the heads of mammals. Patricia's research thus far indicates that light may affect certain physiological processes in surface brain tissue, among them the release of a neurotransmitter and the uptake of glucose into brain tissue. A primary question being addressed is in what ways external light may directly alter brain metabolism and function.

For Patricia, the transition from the small



Series Co-Chairs Jan Geliebter and Patricia Wade confer with speaker Marjorie Russel, who spoke on "Assembly of Filamentous Phage at the Membrane."

town atmosphere of Berkeley to the frenzied pace of New York City at first resulted in shell shock. However, she found refuge with the Rockettes, a group of RUites who attend weekly classes at the Martha Graham School of Dance. During the past four years, Patricia has begun to appreciate the "subtle amusements" practiced by New Yorkers, not the least of which involve pedestrian-car interchanges. She credits herself "as fast on the way to becoming a car kicker", just like a native New Yorker.

Collaborative Science at RU

Rarely do students appear as the sole authors of scientific articles. Rockefeller physics students, Alessandro Campa, of Dr. E.G.D. Cohen's lab, and Vlado Rahal, of Dr. Nicola Khuri's lab, however, recently shared that honor. Their paper, entitled "Thermodynamical Implications of a Small Violation of the Pauli Principle," appeared in *The Physical Review*. The paper was written in response to comments made by an invited speaker at a University seminar.

During the seminar, the speaker had conjectured a small violation of the Pauli Exclusion Principle (PEP). The principle states that two electrons never occupy the same quantum state. When applied to atomic physics, the principle serves to explain the origin of the Mendeliev Table of Elements. Besides, if electrons and neutrons failed to obey the PEP, then all stars at the end of their evolution would collapse into black holes and the occurrence of supernovae would be unlikely.

Alessandro and Vlado devised a model that incorporated a small violation of the PEP within the framework of ordinary quantum mechanics. Using the model, they computed the partition function for a free electron gas in a metal and analyzed the implications of their results. They found an upper bound on the violation parameter. Vlado and Alessandro concluded that while very small violations could occur theoretically, the time required for the PEP violating transitions to occur at the microscopic level would exceed the known life of the universe.

Biomedical Fellows (continued from page 1)

Alumni are found in the nation's foremost hospitals and academic and scientific institutions. Thirty-three percent of the graduates hold teaching positions. Twenty-eight percent are engaged in postdoctoral research and an equal number are completing hospital residencies or internships. Two graduates are in private practice and two work in private industry. Thus, the program has succeeded in creating a cadre of dedicated and highly productive medical scientists.