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The Rockefeller University

April-May 1987
Volume 18, Number 4

Academy Elects Gotschlich and Kaiser

Professors Emil C. Gotschlich and Emil Thomas Kaiser were elected to membership in the National Academy of Sciences at the academy's annual meeting in April. They join 42 other current Rockefeller faculty members and trustees who belong to what is considered one of the most prestigious associations in the world of science.

Dr. Gotschlich, who heads the laboratory of bacteriology and immunology, conducts studies of meningitis, gonorrhea, and streptococcal infections. A member of the Rockefeller faculty since 1960, he received a Lasker Award in 1978 for his work in the development of meningitis vaccines.

Dr. Kaiser joined the University in 1982 from the University of Chicago to establish the laboratory of bioorganic chemistry and biochemistry. In 1984, he was named the first Patrick E. and Beatrice M. Haggerty Professor. His research centers primarily on the structure and function of enzymes and other catalysts of biological reactions. His laboratory is developing chemically modified enzymes and peptide hormones for medical application.

Three Rockefeller alumni were also elected to the academy: Wyatt W. Anderson, professor of molecular and population genetics, University of Georgia, Athens; Barry R. Bloom, professor of microbiology, immunology, and cell biology, Albert Einstein College of Medicine; and Harvey F. Lodish, professor of biology, Massachusetts Institute of Technology.

Feigenbaum Is First Toyota Professor

Mitchell Jay Feigenbaum, one of the founders of the field of chaotic dynamics, or chaos, and a recent addition to the University's faculty (see News and Notes, February-March 1987), has been named the University's first Toyota Professor, a post made possible by a \$1.5 million gift from Toyota Motor Corporation.

The new chair was established as part of an effort by Toyota to broaden cultural and scientific ties between Japan and the United States, according to company president, Shoichiro Toyoda.

From 1982 until coming to Rockefeller in January, Dr. Feigenbaum was a professor in the Department of Physics and the Laboratory of Atomic and Solid State Physics at Cornell University. He has been a visiting
(continued on page 6)

NIH 'Impressed'; Hospital's GCRC Grant Renewed

The Division of Research Resources of the National Institutes of Health has renewed The Rockefeller University Hospital's grant as a General Clinical Research Center (GCRC) and has recommended an award of over 20.4 million dollars—the largest ever granted the Hospital—for the five-year period beginning December 1, 1988.

This sum represents an increase of 42 percent over the previous five-year award recommended for the Rockefeller GCRC in 1981, and comes at a time when many of the GCRCs funded by the NIH have had their support cut back substantially, according to Vice President and Physician-in-Chief Attallah Kappas. In addition, the NIH increased its supported bed capacity at the Hospital from the current level of 27 to 30.

Dr. Kappas was principal investigator for the grant renewal application, in which 10 University laboratory groups connected with the Hospital participated.

The Rockefeller Hospital is the largest GCRC in the country, and has been funded by the NIH uninterruptedly since 1963, when Professor Emeritus Maclyn McCarty, then physician-in-chief, secured the first GCRC grant for the University. The notice of approval, received in January, stated that the NIH reviewers were "impressed by the continuing performance of high quality basic and clinical research at this Center."

The Hospital logs about 400 admissions a year to its inpatient floor and about 5000 visits to the outpatient clinic from people suffering from conditions under investigation by Hospital researchers. They receive the best medical treatment available, while participating in studies to advance understanding and treatment of their disorders.

In a memorandum to the Hospital's laboratory heads announcing the NIH grant renewal, Dr. Kappas stated: "We all have good reason to be happy with this news, which reflects great credit on our staff and research programs."

Much credit is also due those who helped with the necessary grant-application procedures. According to Hospital Administrator Kathy Kleinbard, preparation of the 730-page proposal, due last June, began the previous October.

"It was a joint venture," she says, "involving the staffs of each of the Hospital laboratory groups and of the Hospital itself, as well as the University's controller's office and the office of sponsored programs. Other University services that provided invaluable help in completing the application and preparing for the major NIH site visit included graphic services, The Rockefeller University Press, and the entire plant operations staff. We are grateful to them all for their assistance in securing this grant."

Cells and Celebrations for Zanol Cohn

On March 31, thirty-five past and present members of Professor Zanol A. Cohn's cellular physiology and immunology laboratory joined an international gathering in England for a three-day symposium and reunion in honor of Dr. Cohn's 60th birthday.

The symposium, on the subject of macrophage plasma membrane, was held at Exeter College and the Sir William Dunn School of Pathology of the University of Oxford. Serving as session chairmen were Dr. Cohn, Professor Ralph Steinman of his laboratory, and former lab member Ralph van Furth, now professor and chief of the Division of Infectious Diseases of the University of Leiden. The host for the reunion was Adjunct Professor Siamon Gordon of the Sir William Dunn School, who earned his Ph.D. with Dr. Cohn.

Dr. Cohn will be returning to Oxford as Newton-Abraham Visiting Professor from January to June, 1988.

Receptionist Louise Johnson and Mail Room Clerk Gabriel Trilla at the new reception console in the lobby of Founder's Hall. The unit, designed to match the lobby's mahogany furnishings, houses the Sileox System 10 computer, a fiber optic security system that monitors the campus and also laboratory temperatures, and alarms for office equipment. Its nine closed-circuit television monitors, each capable of serving four cameras, make it possible to view 36 campus locations. The console also contains the Wells Fargo fire alarm monitor and telex and will continue to serve as a message center



Saluting Many Years of Service

Each spring, the University's anniversary and retirement dinner fêtes members of the Rockefeller community who have reached the quarter-century mark or are retiring after a decade or more of service.

This year's party, held on April 27 on the 17th floor of the Tower, honored 27 celebrants whose achievements were acknowledged with gifts and testimonials presented by President Lederberg.

In attendance on the occasion of their 25th anniversaries were Assistant for Research Ruth L. Brooks, Professor Christian de Duve, Laundry Service Assistant Supervisor Atlean Duncan, Laboratory Helper Lena Lindsay, Laundry Service Seamstress Norma Lumsden, Professor Bruce S. McEwen, and Senior Research Associate Norman Milkman. Purchasing Assistant Samuel Bispham, Professors Bruce W. Knight and Morris Schreiber, and Journals Office Manager Vera Smith were honored in absentia.

Dr. Lederberg expressed the University's gratitude and affection to 16 retirees: Faith Arthur, Marthe Azemar, S. Theodore Bella, Dr. Zofia Borowska, Carmelite Bouillon, Erick Dundas, Arthur Ford, Flora C. Green, Larola Rich, Josephine Roberts-Edwards, Manuel Rodriguez, Rosario Rosario, Johann Schweinsteiger, Leon Simmons, Edward Thompkins, and Leate U. Thorbourne.

Mrs. Arthur is retiring as a helper in Professor Igor Tamm's virology laboratory. During her 21 years there, Dr. Lederberg stated, "no experiment ever failed because the glassware was not impeccably clean and no snowstorm could keep her away if there was any kind of transportation running."

Mrs. Azemar, who was with the University for 10 years, is currently visiting in her native Haiti. The members of Professor David Luck's laboratory, whom she provided with expert help and "extraordinary puff pastry," are eagerly looking forward to greeting her and her chicken tarts at the lab's Christmas party.

Mr. Bella, who was not able to attend the dinner, was the University's microanalyst for 39 years, typifying, Dr. Lederberg said, "the best of what is inadequately called the supporting technical services, without which our laboratories could not function."

For much of her 25-year career at the University, Dr. Borowska was a biochemist in the laboratory of Nobel laureate Edward Tatum, where she isolated the antibiotic edeine, the work for which she is best known. Later, in Professor D. Martin Carter's investigative dermatology laboratory, she studied the usefulness of edeine for skin infection. Most recently, working with Professor David Mauzerall, she made a discovery that helps to relate photosynthesis to the origin of life, "possibly solving the dilemma of its beginnings," said Dr. Lederberg.

While keeping Founder's Hall spotless for

16 years, Mrs. Bouillon reared six children with equal care and competence. Her family now boasts three nurses, two policemen, and three grandchildren. Although retiring, "she hasn't abandoned us," Dr. Lederberg noted. Her daughter Eva supervises purchasing service's computerized inventory control.

Mr. Dundas, known on campus as "a diplomat among his colleagues and at the gate," joined the security office 13 years ago after retiring from law enforcement service in his native Guyana, where he was chief inspector and prosecutor. His diplomatic skills will now serve him in his role as secretary of the men's guild of his church and chairman of its stewardship committee.

Mr. Ford, a 14-year veteran of the security office, whose "brilliant smile illuminated the 66th Street Gate even on a rainy day," will also keep busy in retirement. He is president of the Guyana American Legionnaires, where he is in charge of voluntary services.

Mrs. Green, mother of seven and grandmother of 50, was regarded as an "angel of mercy" at the Hospital, where she was a nurse's aide for 19 years. Her special concern was the care of the elderly and the very young, including one bedridden child whose well-being she guarded for eight years.

Helping to keep the Hospital impeccably clean was Mrs. Rich's responsibility for 18 years. She was honored in absentia, since she and her husband have returned to Florida, where she is thinking of turning her superb needlework skills into a second career.

Josephine Roberts-Edwards came to the University 20 years ago as a night cleaner and later took a post as helper in Professor Bruce McEwen's laboratory. "Her stories of bygone days at the University and her homemade empanadas were standard fare at the lab's parties and picnics."

Mr. Rodriguez of custodial services has taken care of the Children's School for most of his 28 years at Rockefeller. As compensation for leaving "his small friends" will be the chance to seek warmer latitudes. He and his wife will be off to Florida to visit their son, then to their native Puerto Rico, and finally to Spain.

Gone from the 68th Street entrance, and also absent from the dinner, was the familiar face of Mr. Rosario, who was already enjoying a well-earned vacation in Puerto Rico after 20 years with the security office.

Cabinetmaker Johann Schweinsteiger, a master craftsman at the University for 26 years, has left a legacy that includes everything from smooth-sliding drawers to intricate hand carvings and restorations. Dr. Lederberg cited the bentwood housing for the scientific instruments exhibit in Caspary Gallery as "one of his most spectacular achievements."

Few know the meaning of family better than Mr. Thompkins. Serving the University

family for 34 years as night maintenance supervisor at the Hospital, he also worked day jobs in order to support five children whom he reared alone after his wife's death. Home now, he is "still working nights," Dr. Lederberg observed—as babysitter for five grandchildren.

Dr. Lederberg noted with regret two who were absent because of ill health. Mr. Simmons, a cook with food services and 25 years at the University, recently suffered a stroke, and necessary surgery prevented the attendance of Leate Thorbourne, a night cleaner in Flexner Hall for 16 years.



Flora Green



Norma Lumsden



Faith Arthur



Edward Thompkins



*Josephine Roberts-Edwards
and President Lederberg*



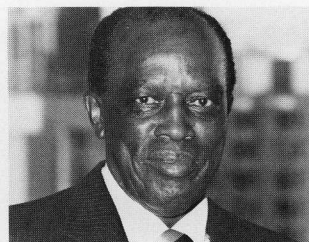
Manuel Rodriguez



Bruce McEwen and Norman Milkman



Dr. and Mrs. Christian de Duve



Arthur Ford



Johann Schweinsteiger



Lena Lindsay



Ruth Brooks and President Lederberg



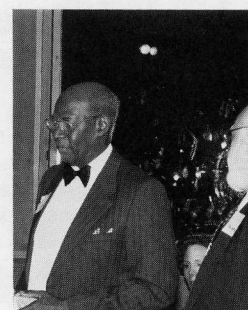
Atlean Duncan



Carmelite Bouillon



Zofia Borowska



Erick Dundas

Honors and Awards

Dr. **Arnold O. Beckman**, Rockefeller University Council member and founder and chairman of Beckman Instruments, Inc., has been inducted into the National Inventors Hall of Fame in honor of his invention of the glass electrode pH meter in 1934.

Adjunct Professor **Jeremy Bernstein**, professor of physics, Stevens Institute of Technology, has won a Britannica Award for "outstanding excellence in the dissemination of knowledge," presented by the Encyclopedia Britannica. In addition to his research and teaching, Dr. Bernstein is a regular contributor to *The New Yorker* magazine and the author of a number of books on science and scientists. His latest book, an autobiography, *The Life It Brings: One Physicist's Beginnings*, published in March by Ticknor & Fields.

Professors **Gerald M. Edelman**, Developmental and Molecular Biology, and **Frank H. Field**, Mass Spectrometry and Gaseous Ion Chemistry, have been elected Fellows of the

American Association for the Advancement of Science.

Professor **Paul Greengard**, Molecular and Cellular Neuroscience, received the 1987 3M Life Sciences Award, presented at the annual meeting of the Federation of American Societies for Experimental Biology (FASEB), in Washington, D.C., on April 1, at which he delivered a lecture, "Phosphoproteins as Mediators of Signal Transduction."

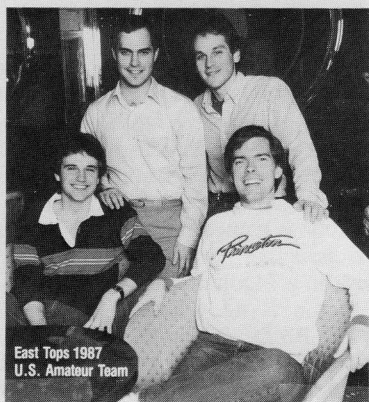
Adjunct **James A. Shannon**, special assistant to the President from 1970 to 1975, was awarded the second annual American Association for the Advancement of Science-Philip Hauge Abelson Prize at the association's 1987 annual meeting, in Chicago, February 14-18. He was honored for his "distinguished career of scientific achievement and notable service to the scientific community."

Professor **Alexander Tomasz**, Microbiology, received the 1987 Selman A. Waksman

Award, presented by the Theobald Smith Society, the New Jersey branch of the American Society for Microbiology, at the annual branch meeting, February 19, at Rutgers University. The title of his Waksman Award Lecture was "Penicillin, Autolysis and Enzymes in Search of a Physiological Function." The Waksman award honors significant contributions to science and society. Previous recipients who have been associated with the University were Edward Reich, Richard Novick, and Nobel laureate Daniel Nathans.

Professor **Elaine Tuomanen**, Microbiology, has been selected for inclusion in the 1986 edition of *Outstanding Young Women of America*, a publication of a program that honors young women who have distinguished themselves in various fields of endeavor. The board of advisors includes representatives of government, industry, and education, including the American Association of University Women.

Chess Life



David Greenstein, standing right, and fellow members of the championship 1987 United States Amateur Chess Team, from left, Robin Cunningham, University of North Carolina, Chapel Hill, Michael Feinstein, Duke University School of Law, and Bill Mason, a government consultant in Washington, D.C.

Greenstein's Hot Dogs

It's a big season for RU cover stars. (See "Yamin's Termite.") Graduate Fellow David Greenstein and co-members of the Eastern Amateur Chess Team grin from the cover of the May issue of Chess Life magazine. Why? Their team, "Walk Your Dog II," won the 1987 U.S. Amateur Team Championship.

Why Walk Your Dog II? Presumably, they succeed Walk Your Dog I. The Chess Life reporter could not resist observing that the team's "bite was worse than its bark," "Greenstein drew first blood," and "the best game of the match was Greenstein's positional mastication" of a player on the Midwest's team. Want to know that team's name? "4.5 Mil or the Preacher Gets It."

News and Notes was apprised of Champ Greenstein's victory by his colleagues in the University's genetics laboratory who stated: "We are very proud of David. Not only is he a chess champion, he also finished the 1986 New York Marathon." On all fours?

At the "topping out" party on March 31, marking the completion of the final story of 220 East 70th Street, the shared housing facility for University faculty, funded by the the Howard Hughes Medical Institute, Vice President David J. Lyons, right, receives the customary hardhat and flag from representatives of the construction company, Lehrer/McGovern Seventy of New York, Inc.



Telling Our Story: No Longer 'Bad Form'

Every day the calls come in to the University's public information office:

"I'm with the Associated Press (The New York Times, Channel 2 News). We've just received your news release about ..."

"I saw an article about a study at Rockefeller in heart disease (obesity, Alzheimer's disease). Can you tell me how I can get into the program?"

And the calls go out:

"This is the Rockefeller University. There's a piece of research going on here I think you might be interested in."

The day-to-day job of making the University better known to the press and the public is handled by the office of public information, whose members include Judith N. Schwartz, director, Marc Kaplan, public information officer, Catherine Rogers and Mary Wagner, public information assistants, and Trisha Young, secretary.

Once upon a time, scientists rarely concerned themselves with press relations. "Twenty years ago," a Johns Hopkins scientist has written, "consorting with the media at all was considered bad form." Times have changed. Today, special newspaper sections and magazines report on science and profile scientists, and there are almost as many science-related programs on television as soap operas. This popular interest in science reflects both the growing awareness by laymen of the critical role of science in their lives and the increasing willingness of scientists to talk about their work.

"Scientists have become more sensitive to the idea of 'accountability,' and that an informed public is good for science," says Barry W. Dress, vice president for university relations, who supervises the University's development and public information programs. "With tax dollars supporting multi-million dollar projects and fundraising from the private sector, a necessity for virtually every research center, scientists are recognizing the need for opening a window to their world."

In addition to distributing news releases to the press, conducting press briefings, and matching reporter to scientist, the public information office prepares informational brochures, arranges photographs, oversees the production of promotional films about the University, and runs a twice-yearly public lecture series. The office also puts out a quarterly publication, Research Profiles, which is distributed to University friends and donors, foundations, other research institutions, and selected science writers. And for the "home" readership it publishes News and Notes.

An important responsibility of the public information staff is to make recommendations to members of the University community about specific journalists, publications, or programs, and to help them prepare for press encounters.



High school science teachers from area schools visited the campus and met with Prof. Robert G. Lahita, center, who spoke to them about the University's research in immunology as part of The New York Academy of Sciences participation in National Science and Technology Week, April 5-11.



Richard Breedon, center, a graduate fellow in the University's laboratory of experimental high-energy physics, with the senior honors from his alma mater, Hudson High School, Ohio, who visited the campus in March. Professor Gilla Kaplan and Biomedical Fellow Koide, center, spoke to the group about research in the laboratory of cellular physiology and immunology.



Postdoctoral Fellow Juliana M. McElroy, standing, fifth from left, introduced a group of students from neighboring Julia Richman School to the research in the University's laboratory of cellular physiology and immunology on a visit to the campus in March.

"As publicists for an institution of this kind," says Mrs. Schwartz, "we have to balance our eagerness to tell the University's story with the need to protect it from misrepresentation or inappropriate intrusions. Sometimes it's not in our best interest to say 'yes' to a request from the press. For example, a laboratory can be turned upside down for hours by a television crew for what turns out to be ten seconds of air time in which very little of value is communicated."

"Happily, that circumstance is the exception rather than the rule. Overall, science reporting has improved enormously in recent years. The best advice we can give to scientists talking to reporters or broadcasters is to keep it simple, define terms, provide background material, and remember that nothing is ever 'off the record.'"

Mr. Dress offers another word of counsel: "When the press calls, call the public information office."

A View from the Dean's Office

April-May 1987

A Few Words About June 10

by Anthony Cerami, Ph.D.
Dean of Graduate and
Post Graduate Studies

Graduation ceremonies are an integral part of university life at Rockefeller. This year, the convocation will take place on Wednesday, June 10, at 3:00 in the afternoon.

Not only does graduation afford the opportunity to honor the Ph.D. work of students, but it is also a celebration of the distinctiveness and diversity of work and life at Rockefeller.

I urge all students and faculty members to make every effort to attend and take part in the festivities. I also hope area alumni can take time out of their busy schedules and return to the campus to renew old acquaintances.

Poster Presentations

"It's a wonderful way to meet and interact with other scientists in the field. I was really excited because some of the scientists whose research I follow, were asking me questions about my work," says Stephen Devoto, a fourth-year student in Professor Torsten Wiesel's Laboratory. Stephen was one of the students who presented a poster at the Society for Cell Biology last December in Washington. He says that most all students relish the opportunity to present posters.

Laura Davis of Professor Günter Blobel's laboratory presented three posters while a student at Rockefeller University. She says that these presentations open avenues for new feedback and contacts. "Essentially all you do is present your work in readable form so that people who are mildly interested can have an idea of the work you're doing, and people who are really interested can go into greater detail with you."

Laura's posters have been viewed at the Canadian Biochemical Society in Banff, Canada, the summer symposium in Molecular Biology, at Penn State University, and at the American Society for Cell Biology, in Washington. "I really enjoyed meeting people who were interested in discussing my work."

Steve Devoto agrees. "It really is a good experience. Very often people will come up to you with suggestions on your work." Stephen also presented a poster at a smaller meeting last June in New York for the New York Academy of Sciences.

Gary Romano, a fourth-year student in Professor Donald Pfaff's laboratory, recently presented his poster at the Annual Meeting for the Society of Neuroscience, in Washington. "Not only do I have a chance to show my work to others, but it also gives me a chance to broaden my interests and learn about other work in related fields. Rockefeller offers very generous support for travelling to meetings. I was also able to attend the International Narcotics Research Conference, in San Francisco. This is important support for students.

Profile

At Rockefeller University, Dr. Martin Burshka has found an exciting intersection for his diverse scientific interests.

Martin comes to Rockefeller with an unusual combination of degrees and education. He began his studies in Aachen, West Germany. Attracted by the intellectual challenge of theoretical physics, he also wanted to study the physiology of the brain.

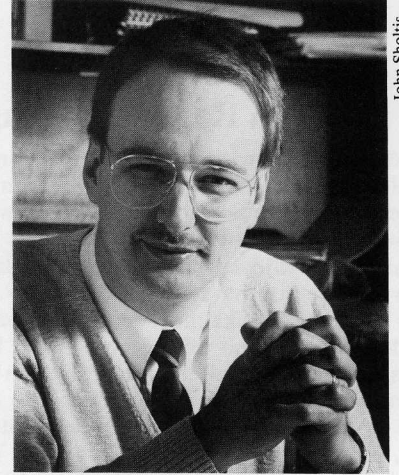
His goals were ambitious. He wanted to know how much our understanding of nature depends upon the physiology of scientific thinking. "Since I did not know where I would learn what I wanted to know, I studied medicine and physics simultaneously." It took nine years.

During that time he also worked as an intern in a hospital, passed a German state examination as a physician, and studied statistical physics. "All these years of study taught me an important lesson," Martin notes, "I am now more humble about my scientific goals."

Although his scientific goals had narrowed, his quest for personal knowledge had not. "I think you can gain a better understanding of yourself if you live in a foreign country." Thus, Martin moved to Utrecht in the Netherlands. There he learned Dutch and worked with Professor N. G. van Kampen to earn his Ph.D. in mathematics and physics.

He finds the most interesting physical systems to be non-equilibrium diffusion reaction systems of which living cells are a very complicated example. In his Ph.D. work, he studied the overall effects of diffusion in a system with ongoing reactions and found the mathematical reason why the reaction rate equations did not work in certain diffusion reaction systems, and the fluctuations dominated.

Now, in his second year at Rockefeller, Martin believes that he has finally met "the real thing"—statistical physics of nerve networks. In the biophysics laboratory of Professor Bruce Knight, Martin is working on the processing of image information by the ganglion cells in the cat retina. In particular he is trying to understand the dynamics of the



Martin Burshka

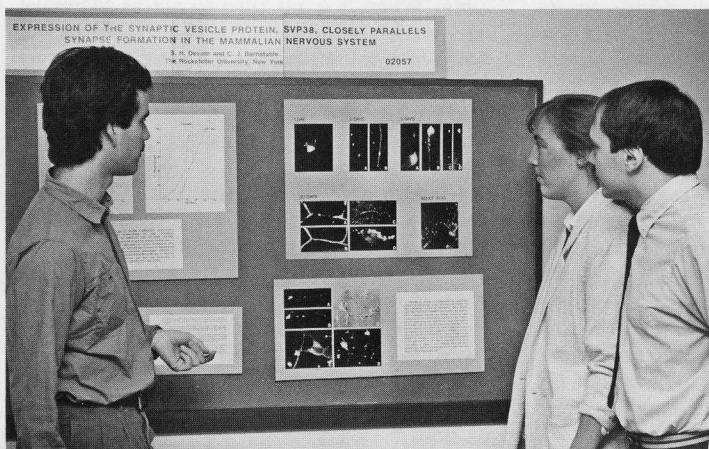
John Sholtis

contrast-enhancing part of the receptive field.

Martin's wife, Beate Eberhard, is also a postdoctoral fellow at Rockefeller, working as a chemist in the laboratory of Professor William Agosta. Martin and Beate are expecting their first child this summer.

They enjoy living in New York. The first year here, they felt like they were living in an American-German-Dutch Friendship House. "We had a tourist staying with us practically every month—sometimes we did not even know our guests before they arrived," he laughs. In his spare time, Martin sings with the St. Andrews Chorale at Madison Avenue and 72nd Street.

Martin plans to stay for one more year at Rockefeller. "The University truly provides invaluable opportunities for scientific interaction," he states. "I participated in the Seven Springs postdoctoral weekend last fall and made important contacts. I met Dr. Sandy Simon there, and coincidentally he was pursuing diffusion reaction problems of cell membranes, an area of research related to the subject of my dissertation. We have started some collaboration and are learning a lot from each other in membrane physiology and statistical physics."



John Sholtis

Student Steve Devoto discusses his poster with students Laura Davis and Gary Romano.



Randy Furlong

So Long To Randy Furlong

Randall Collins Furlong is a household name on the Rockefeller campus. He has been a student here since September 1981, and will graduate in June with a degree in physics.

Randy has enjoyed his studies at Rockefeller. "Here you have the chance to go at your own speed. I like the independence and freedom to study and work on my own," he notes. Randy has also enjoyed living at the University. "It's a pleasant way to live in New York City; it's like living in a country club. However, since there are two levels of housing, it would be preferable if students had access to better housing from the onset."

Randy's research for the past six years has been to understand the fundamental structures and interactions of the universe at the most elementary levels, the quest for the "Holy Grail," a theory that provides a unified description of all the seemingly different phenomena, such as gravitation, electromagnetism and the strong and weak nuclear forces, as various manifestations of one underlying action.

"Part of my research," he says, "has centered on investigation of the consistency of the quantum field theoretic description of one small segment, Higgs particles. These particles are supposed to play a strong supporting role in the drama of the Electroweak Unification, a unified description of the electromagnetic and weak interactions which are responsible for, among other things, radioactive beta decays. They are also essential to the nuclear fusion processes that allow the sun and other stars to burn their hydrogen fuels into helium. The question of consistency arises because it is not clear whether the Higgs particles really play their part in this drama or whether they "go on strike" and refuse to interact with themselves or anything else. It has been established that when the Higgs are extremely heavy and slow-moving (non-relativistic) they do go on strike. Also when they are massless and always zapping around at the speed of light, a trillion furlongs per fortnight, they refuse to interact. Computer models we have done also show this 'trivial' behavior of the Higgs particles."

"The other major focus of my research has been on the implications of our current understanding of high energy physics for the events immediately following the birth of the universe. I independently rediscovered an equation whose solution should, in principle, be useful for answering questions about the universe and its inception. We constructed a very simple model of a solution, pointing out some of its new properties. Remarkably, we can meaningfully ask questions about an

Oxford University Exchange Program

Beginning this summer, three Rockefeller University students will have a rare opportunity to bring an international dimension to their education and research.

Professor Anthony Cerami, dean of graduate and postgraduate studies, has initiated an eight-week summer exchange program with Oxford University. "Many students do not have much experience working outside of the United States. The Oxford University exchange program will increase their exposure to research abroad," states Dr. Cerami.

Oxford University, the oldest university in England, opens a window to centuries of history through its remarkable architecture and ambience. In addition, Oxford is known for its international community; over half the

students engaged in graduate study are citizens of a hundred different countries.

Two students per year will be chosen by a faculty committee to participate in the program. Students will work in labs or enroll in courses during their stay. Similarly, two Oxford students will spend the summer living on campus and pursuing research in labs at Rockefeller University. The exchange program at Oxford will be administered by Dr. Siamon Gordon, a Rockefeller University alumnus.

Students participating this year are Jeffrey Yuan, a second-year student in Professor Günther Blobel's laboratory, Clay Reid, a fourth-year M.D.-Ph.D. student in Professor Floyd Ratliff's laboratory, and Charles Epstein, a first-year student in Professor Zanzil Cohn's laboratory.

Women in Science

There is a marked increase in the number of women entering the Rockefeller graduate program. The percentage of women entering the program in the 1980s is more than double the percentage in the 1960s.

Given this important trend, Associate Dean Miki Rifkin will begin a dinner seminar series next fall to address the needs and opportunities for women in science.

What are the career options available for women? Do viable career paths exist outside of academic research? How does one manage a career in science?

In four informal dinners next year, outside speakers including prominent women scientists and Rockefeller alumnae will address these and other issues with women students.

Working with Dr. Rifkin in developing these seminars will be Darcy Kelley, a professor at Columbia University and a Rockefeller alumna.

Suggestions for this program from students and alumnae are welcome. Contact Dr. Rifkin in the Dean's Office.

event of primary importance and expect reasonable answers. Our understanding of the beginning of everything is just starting as we get close to the Holy Grail, a theory of everything," he says.

Aside, from his research, Randy (who can very often be seen wearing a tuxedo) is also very active in the social life at the University. He has served on the Student Representative Committee for six years, a record length of time. When it is his turn to act as secretary and write the minutes, he does them in the form of comic strips. He is on the house committee of the Faculty and Students' Club, and for the last year he has been running the video series at the club on Saturday nights. Randy can also be seen at concerts, TGIF get-togethers, and whatever social functions the University provides. He also tries to attend most dissertation presentations. "I have found it interesting to go to as many as I can even though most are biological."

Having applied for research positions all over the world, Randy has accepted a position at Brookhaven National Labora-

Summer Seminar Series

To many, summer connotes swimming, sunning and sand. To Rockefeller students summer brings the other three S's—the Summer Seminar Series.

Every two weeks, starting in the middle of June, students meet informally over food and beer to present seminars on their research.

The program was originated by Stephen Devoto, a fourth-year student in the laboratory of Professor Torsten Wiesel. Stephen organized the program to improve interaction among students during the summer months when regular seminars are not in session. Last year two other students, Jenny Laforet and Paul Fehlner, also worked on organizing and promoting these seminars.

In existence for three years, the seminars are attracting a large number of students. People meet every other Thursday at 5:30 P.M. in room 1A-B in Caspary Hall. Students present a broad overview of their research using slides and general background information.

"The primary goal is for students to get together," states Stephen. "What is discussed is often less important than the fact that we are meeting regularly."

Interestingly, last year a few sessions did not even touch on specific student research. One session was devoted to an analysis of the strategic defense initiative; another was spent on the biological basis for "hitting the wall" in marathon running.

Stephen describes the seminars as "round table discussions." "We sit around with beer and potato chips during the seminar, and then afterwards order Chinese food or pizza. It's really fun and at the same time informative—and fattening!"

Anyone interested in more information should contact Stephen at Ext. 7665.

tory in Brookhaven, Long Island. He would eventually like to teach, "perhaps after winning the Nobel Prize, maybe before, I don't know." He would also like to apologize to everyone who ever had to listen to the tale of the three-legged-dog.

Transplanted Treasure



Inna Perlin

In a recent poem, Inna Bogachinskaya-Perlin wrote:

"I cast my lot with you, New York, And for the Russians transplanted here . . . For treasures that reside in our souls."

Inna Perlin and her family emigrated from the Soviet Union to the United States in 1979. She joined *The Rockefeller* in 1981, and for the past four years has been administrative assistant in the neuroendocrinology laboratory of Professor Bruce S. McEwen.

She came to the U.S. equipped with fluent English, having earned a master's degree in English language and literature from Odessa State University in Russia. "I even read Dostoevsky first in English," she says.

But it is the Russian language and the traditional Russian love of poetry that are the "treasures of the soul" she shares with her fellow "transplants." Her literary talent had been recognized in her own country by eminent poets including Andrei Voznesensky, although her subject matter was not always popular with the authorities. A book of her poems and essays, denied publication there, was published here in 1983.

Since coming to this country, Ms. Perlin has frequently been invited to read before Russian-speaking groups. She read in Boston in November and in Philadelphia in January at events sponsored by a publication that features the work of emigre poets and painters. In December, she participated with a group of poets in a conference in New York for teachers of Slavic languages. Some of her poems and an interview with her are scheduled for publication in the Russian-language magazine, *Peace*.

Finding oneself on "different soil" can be a difficult experience. Ms. Perlin was fortunate in having made the acquaintance years ago of two American visitors to her country, David Vitrogon of New York University and John Palm of the University of Tampa, whose advice and friendship she credits with helping her make the transition. "Then," she says, "finding this University and Dr. McEwen was like finding an oasis."

Briefs

Professor **E. G. D. Cohen**, Theoretical Physics, gave an invited lecture, "Dynamics on the Molecular Level in Simple Fluids," at a workshop on Mathematical Theories of Fluids, in Oberwolfach, West Germany, January 19-23. He spoke on the same topic at the Technological University of Delft, The Netherlands, February 4.

Professor **Jules Hirsch**, Human Behavior and Metabolism, president of the American Psychosomatic Society, delivered the opening Welcome and Presidential Address, "Medicine and the Psychosomatic Society," at the society's 44th annual meeting, March 26-28, in Philadelphia.

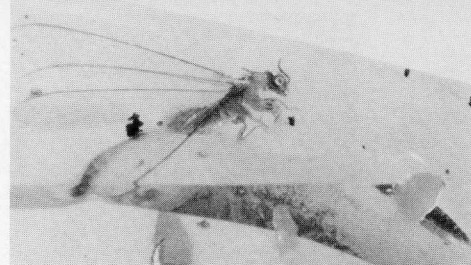
President Lederberg, 1944 graduate of Columbia College, this year celebrating the 200th anniversary of its charter, was the keynote speaker for the Bicentennial Science Series on April 1. On April 8, he was the lead speaker at the dedication ceremony for the new science building at Queens College.

Dr. Lederberg recently became co-leader of a panel of scientific advisors to the Alliance for Aging Research, a not-for-profit coalition of scientists, corporate and foundation executives, and members of Congress.

Rockefeller Trustee **Frank Press** has been re-elected for a second six-year term as president of the National Academy of Sciences and chairman of the National Research Council. A noted geophysicist, Dr. Press has been an Academy member since 1958.

Research Associate **Marlene Schwanzel-Fukuda**, Neurobiology and Behavior, served as co-chair of a conference, "The Terminal Nerve (Nervus Terminalis): Structure, Function and Evolution," at the New York Academy of Sciences, February 2-4, and spoke on LHRH in the Nervus Terminalis of the Gray Short-Tailed Opossum. Also speaking were Professor **Donald W. Pfaff**, Neurobiology and Behavior, on "LHRH in the Central Nervous System: Gene Expression and Actions Related to Sexual Behavior," and Professor **Alan G. Singer**, Organic Chemistry and Physical Biochemistry, on "The Chemistry of Vomeronasal Stimuli: Identification of an Aphrodisiac Protein."

Professor **Philip Siekevitz**, Cell Biology, was a guest lecturer at the University of Puerto Rico Medical School, San Juan, February 16-19, as a participant in the Visiting Scientists for Minority Institutions Program of the National Institutes of Health. He was also the invited lecturer at the Annual Graduate Students Symposium on the Pharmacological Sciences at the University of Michigan Medical School March 19-21, sponsored by the Graduate School and NIH.



Cryptotermes yamini, actual size 5/16"

Yamin's Termite

Cryptotermes yamini, a previously unknown species of fossil termite—26 million years old and perfectly preserved in amber—is the cover star of the 1986 annual report of The American Museum of Natural History. The delicately-winged specimen from the Dominican Republic is named for Michael Yamin, a research associate at Rockefeller, who discovered it in a Manhattan jewelry store.

Dr. Yamin is no ordinary browser. He earned his Ph.D. at the University in the parasitology laboratory of Professor William Trager for studies of termite protozoa. When he saw the amber, his practiced eye spotted another specimen in the piece as a soldier termite, but *Cryptotermes* he could not identify. Not surprisingly. It turns out to be only the second fossil species of this group so far encountered, according to Dr. Kumar Krishna of the Department of Entomology of the Museum of Natural History, where Dr. Yamin has donated his find.

Since completing his thesis in 1980, Dr. Yamin has turned his attention from basic research to helping to apply the fruits of research to medicine. He is currently participating in the organization and evaluation of trials of a drug being developed in the medical biochemistry laboratory of Professor Anthony Cerami. The drug, aminoguanidine, shows promise of counteracting the premature aging and disabling effects of the protein cross-linking that especially afflicts diabetics.

But Dr. Yamin remains "a naturalist at heart"—and termite champion. As he points out, "termites are very important ecologically. By digesting dead wood they put carbon back in the food chain. Without them, the tropical floor would be over our heads."

Promotions

Lee E. Babiss, Molecular Cell Biology, to assistant professor, effective July 1.

Graeme B. Henderson, Medical Biochemistry, to assistant professor, effective April 1.

Andrea G. Vacchi, Experimental High-Energy Physics, to assistant professor, effective March 1.

Correction

News and Notes apologizes to Dr. George N. Reeke, Jr. for the misspelling of his name in the February-March issue in the announcement of his promotion to associate professor with tenure.

Feigenbaum (continued from page 1)

member of the Institute for Advance Studies and has worked at the Los Alamos National Laboratory, which presented him the 1980 Distinguished Performance Award and elected him a Fellow in 1981.

Other awards include the 1986 Wolf Foundation Prize in Physics, Israel's top scientific honor, a 1984 MacArthur Foundation Award, and the 1982 Ernest O. Lawrence Award of the U.S. Department of Energy.

Convocation

The University's 29th convocation for conferring degrees will be held on Wednesday, June 10, in Caspary Auditorium, at 3 P.M.

New Trustee



Ronald E. Cape

Ronald E. Cape, chairman and co-founder of Cetus Corporation, and a member of The Rockefeller University Council since 1978, has been elected to the University's board of trustees.

With a background in both science and business, Dr. Cape was one of the first to foresee the potential for medical and industrial applications from developments in molecular biology. While working in the pharmaceutical industry in the 1960s, he earned a doctorate in biochemistry. In 1971, he and four colleagues formed Cetus, in Emeryville, California, now one of the leading biotechnology companies in the world. He was Cetus president and chief executive officer from 1972 to 1978, and chairman and chief executive officer from 1978 to 1986, when he resigned as chief executive. In 1985, he was named "Scientist of the Year" by the publication Research and Development.

A native of Montreal, Canada, Dr. Cape holds an A.B. in organic chemistry from Princeton University, where he was graduated summa cum laude in 1953, and an M.B.A. from the Harvard University Graduate School of Business Administration. After a brief period with Merck & Company, Ltd., he joined his family's firm, Professional Pharmaceutical Corporation, in Montreal, in 1956, and served as its president from 1960 to 1967 and chairman from 1967 to 1973. He received his Ph.D. from McGill University in 1967 for research on the structure of DNA, after which he spent three years as a postdoctoral investigator in viral genetics at the University of California at Berkeley.

Among his affiliations, Dr. Cape is on the Advisory Council to the Department of Molecular Biology at Princeton, a founding member and former president of the Industrial Biotechnology Association, and a former director of Scientific American Inc.

He is a member of the New York Academy of Sciences, the American Society for Microbiology, the Canadian Biochemical Society, the Natural Sciences and Engineering Research Council of Canada, the Royal Society of Health, Sigma Xi (the Scientific Research Society of North America) and the Society for Industrial Microbiology.

Lewis Thomas Gives Nyswander Lecture

Lewis Thomas, Rockefeller trustee and president emeritus of Memorial Sloan-Kettering Cancer Center, delivered the first Marie Nyswander Memorial Lecture on April 23 at Beth Israel Medical Center. His subject was "The Awareness of Nature."

The lecture series was established by Beth Israel to honor the co-developer of methadone maintenance for the management of heroin addiction. Dr. Nyswander and her husband, Professor Vincent P. Dole, who conducted their methadone research and initial trials at Rockefeller, instituted a major methadone program at Beth Israel in the 1960s.

RU at AAAS

Professor Charles D. Gilbert and Visiting Professor Amiram Grinvald, members of the University's neurobiology laboratory, participated in a special three-day seminar, Frontiers of Neuroscience, at the annual meeting of the American Association for the Advancement of Science, held in Chicago in February. Dr. Gilbert spoke on Circuitry and Function of the Visual Cortex and Dr. Grinvald on Optical Imaging of Neuronal activity. (See News and Notes, February-March 1987.)

Among other Rockefeller scientists reporting at the AAAS meeting on matters of current interest were Adjunct Professor Victoria N. Luine, Neuroendocrinology, on Clinical Applications of Neural Transplantation, and Professor Norton D. Zinder, Genetics, on Biotechnology and Biological Warfare.

Personals

Research Associate **Samuel E. Gandy**, Molecular and Cellular Neuroscience, and Adjunct **Michelle E. Ehrlich**, an assistant professor of neurology and pediatrics, Cornell University Medical College, were married on February 7.

Born February 2 to Assistant for Research **Sondra Lewengrub**, Parasitology, and her husband, Howard, a daughter, Marisa Sue.

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 18, Number 4. Suggestions for articles are welcome and may be sent to News and Notes, Box 68, phone extension 8967. Photographs, page 1, Mary Wagner; page 2, 3, 4, left bottom, and page 6, left, John Sholtis; page 4, left top, Chess Life, left bottom, Herman Bernstein associates photographers; page 5, left, Rudolph Merson; 5, right, American Museum of Natural History. © 1987 The Rockefeller University, New York 10021-6399. Printed in the United States of America.

Alumni Briefs

Robert Sapolsky (1984), assistant professor of biological sciences, Stanford University, was among 200 recipients of the 1987 Presidential Young Investigator Awards sponsored by the National Science Foundation.

Petar D. Simić (1986), a postdoctoral fellow in the Physics Department, High Energy Theory Division, University of California at Los Angeles, was an invited speaker at the Workshop on Skyrmsions and Anomalies, held in the Mogilany Mansion, Cracow, Poland, February 20-24.

Appointments

John Kuriyan, Bioorganic Chemistry and Biochemistry, as assistant professor, effective June 1.

The University's own Easter bunny, Laboratory Safety Attendant Isaiah Curry, came calling with spring greetings on April 17.

