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The Rockefeller University

February-March 1987
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News and Notes

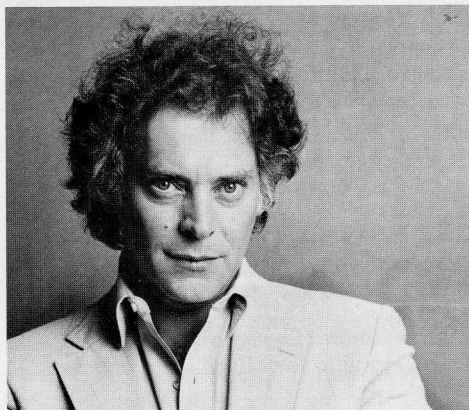
Feigenbaum Named Professor: 'Chaos' Comes to Campus

Physicist Mitchell Jay Feigenbaum, whose work has been instrumental in establishing the field of chaotic dynamics, or chaos, has been appointed a professor at Rockefeller.

The texture of a mountain stream transformed into a turbulence of whorls and eddies by a waterfall is an example of chaotic behavior. So are weather, smoke, clouds, water dripping from a faucet, an airplane in flight, and oil flowing in an underground pipe. Even the electrical activity of the human heart is subject to disorder and irregular behavior, or chaos.

Until the initiation of systematic studies of chaos, physics had been unable to predict or describe events in nature which exhibited erratic or turbulent behavior. Through mathematical formulations, Dr. Feigenbaum discerned distinct patterns of the transition from orderly sequences of numbers to disorderly. Using a computer, he found that different equations produced the same pattern. He was able to demonstrate that these patterns possessed the mathematical property of universality, that is, the patterns of transitional disorder were identical regardless of what was being disordered.

Turbulence in fluids is one way physicists like Dr. Feigenbaum are able to visualize chaos. His 1980 paper on the motion of heated fluids demonstrated that experimental



Mitchell Jay Feigenbaum

data of phenomena in nature did, in fact, correspond to his mathematical equations of chaos. When a cube of liquid is slowly heated from below, the liquid rises in an orderly rate to the top of the cube in a roiling motion. As the temperature difference increases, the speed of the rising liquid begins to oscillate between two speeds in an alternating pattern, then it halves again. When the liquid no longer moves regularly, chaos sets in. This kind of orderly movement into disorder is called period doubling, and Dr. Feigenbaum has found a way to mathematically describe this process.

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Something New for News and Notes

This issue introduces a special insert, "A View from the Dean's Office," which will be a regular feature of *News and Notes*. Its purpose, as Dean Anthony Cerami explains in the lead article of the insert, is to "facilitate communication among faculty, students, and alumni." *News and Notes* welcomes "A View from the Dean's Office" and the dean's office welcomes your comments and suggestions.

Magie Succeeds Siddiqi

Lila J. Magie, formerly associate director of personnel, has been elected corporate secretary by the board of trustees and appointed director of faculty administration by President Lederberg. She succeeds Antonia M. Siddiqi, who left the University on January 31 to return to Switzerland.

Miss Magie has been with the University since 1950, becoming assistant supervisor of personnel in 1960 and associate director in 1969. Over the years, she has had major responsibility for the University's human resources, including administering the University's pension and benefit programs.

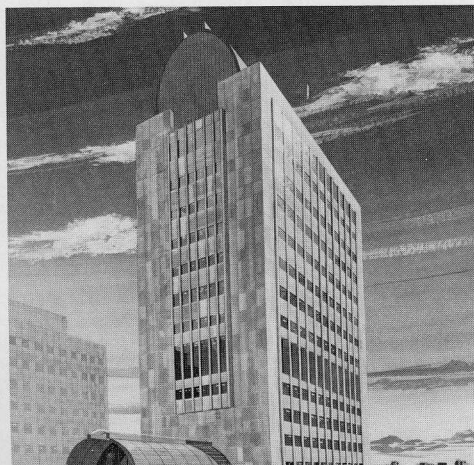
As corporate secretary, she will be in charge of recording board actions and supervising staff activities in support of the board.

Among its many duties, the faculty administration staff takes charge of maintaining faculty records, helps to coordinate appointments procedures, aids and advises foreign faculty and students on immigration procedures, and assists the Academic Council and University Senate.

Mary Pat Nowack, a member of the office of sponsored programs since 1980 and most recently associate director, has been named director, a post also previously held by Mrs. Siddiqi. The office processes grant applications representing a major portion of the University's revenues from public and private sponsors.

(continued on page 2)

Artist's rendering of the projected Rockefeller facility expected to be completed in 1990. Under the University's new collaboration with the Howard Hughes Medical Institute, Hughes will provide support for the construction of four floors of the 11-floor building and for related faculty, staff, support services, housing, and other operating costs of the Hughes unit on campus.



Officers of The Howard Hughes Medical Institute and The Rockefeller University at a dinner on February 5 celebrating the establishment of a Hughes Institute at the University. From left, standing, Robert White, vice president for finance, HHMI; Dr. Purnell W. Choppin, vice president and chief scientific officer, HHMI; Mark Smith, controller, HHMI; Executive Vice President Rodney W. Nichols; Dr. George Thorn, chairman of the board, HHMI; Professor Günter Blobel; Professor Joseph Nevins; Judge William Quillen, vice president and general counsel, HHMI; and Vice President and General Counsel William H. Griesar. Seated, Dr. Donald Fredrickson, president and chief executive officer, HHMI, and President Lederberg.

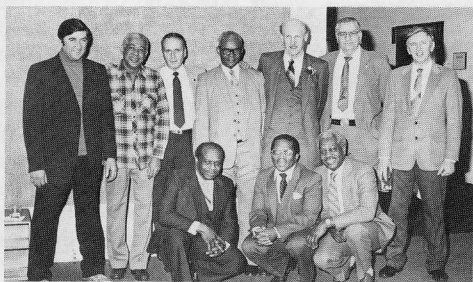


Members of the office of faculty administration and the office of sponsored programs. From left, Deborah Milite, Raphaele Sondak, Chris Schuld, Mary Pat Nowack, Claire Mason, Lila J. Magie, Betty Kapetanakis, and Karen Boylan.



Schweinsteiger Sends Thanks

Hans Schweinsteiger, who retired from the University in December after 26 years in the Cabinet Shop, has asked *News and Notes* to convey his thanks to all his friends and associates for making his retirement party such a happy and memorable occasion.



Hans Schweinsteiger with some of his many friends and present and former colleagues at a party on January 13 to mark his retirement after 26 years in the Cabinet Shop. Standing, from left, Eugene Kevény, Mario Perz, Robert Channel, Lawrence Walks, Mr. Schweinsteiger, Eugene Roth, James Mortko. Kneeling, from left, Ronald Cox, Sidney Nicholson, Edward Principe.

Alumni Briefs

Fred Russell Kramer (1969), has been appointed a member of The Public Health Research Institute, New York, and a research professor in the Department of Microbiology, New York University Medical School. He was formerly with the Columbia University College of Physicians and Surgeons, in the Institute of Cancer Research and the Department of Genetics and Development.

An exhibition of paintings on scientific themes by **Michael Mautner** (1975), research chemist at the National Bureau of Standards, was held in the Gaithersburg Library, Gaithersburg, Maryland, in October.

Gregory R. Snow (1984), formerly a research associate in the University's laboratory of experimental high-energy physics, has been appointed assistant professor in the Department of Physics at the University of Michigan, Ann Arbor. He will continue his research at the European Organization for Nuclear Research (CERN), in Geneva.

Cecil Yip (1963), Banting and Best Department of Medical Research and the Department of Physiology, University of Toronto, has been named Charles H. Best Professor of Research.

Birthday Greetings Across Boundaries

On the occasion of his visit to Moscow in September, and in celebration of his 70th birthday in October, Adjunct Professor Marvin Weinstein was presented with letters of congratulations from the Soviet Union's National Research Institute of Antibiotics and from the Academy of Sciences.

A major contributor to the fields of microbiology, biochemistry, and biotechnology, Dr. Weinstein was hailed in the letters for his discovery of gentamicin, one of the most widely used antibiotics in the world, and for his efforts in support of "scientific bonds between the USSR and USA."

Deaths

Lind O'Connell Lawrence, 46, a nursing aide at the Hospital since 1984, on December 23.

Theodore Nadeje, 81, who was associated with the University for over 40 years as a laboratory technician and an assistant for research for Oswald T. Avery and Frank L. Horsfall, Jr., until his retirement in 1970, on May 5.

Crafts Show Alert

Attention all RU Craftsmen! The University will hold a crafts show in the lobby of Founder's Hall in early June. Check your mailboxes and the bulletin boards for further information.

Personnel Promotions

John J. O'Donnell, director of the personnel office, has announced new appointments in the personnel staff.

Nancy La Valle has been named associate director, succeeding Lila Magie, now corporate secretary and faculty administrator (see page 1). Eileen Holleran moves from personnel assistant to the post of assistant director, and Virginia Huffman, also formerly a personnel assistant, is now employment manager.

Anniversary and Retirement Dinner

On April 27, the University will hold its annual dinner for those who have 25 or more years of association and those who retired during the academic year with 10 or more years of service.



At the farewell party for Antonia Siddiqi on January 16. From left, President Lederberg, Vice President and General Counsel William H. Griesar, Controller John Harrigan, Vice President and Treasurer David J. Lyons, Mrs. Siddiqi, Executive Vice President Rodney W. Nichols, and Vice President for University Relations Barry W. Dress.

Magie ... (continued from page 1)

Mrs. Siddiqi, who plans to resettle with her husband, Richard, in her native Switzerland, was honored by the Rockefeller's trustees and officers with a citation, presented at the board's meeting on January 20, expressing their "profound appreciation" for her "dedication and distinction" during more than 17 years of service to the University.

Personals

Born November 24 to Professor **Emily J. Brink** and her husband, Professor **Robert Mackel**, Neurophysiology, a son, Charles Edward.

Born January 26 to **Ann Glauber**, Dean's Office, and her husband, Ira, a son, David Mark.

Born January 7 to Professor **Cecilia Unson O'Brien**, Biochemistry, and her husband, Dr. James O'Brien of Memorial Sloan-Kettering Cancer Center, a son, Evan James.

Thomas Schoepfer, Laboratory Safety, was married on July 26 to JoAnne Corrado, a sales representative for Proctor & Gamble Distributing Co.

Research Associate **Michael Yamin**, Medical Biochemistry, was married on January 4 to Wendy Stern, a professional flutist.

The University's scientific Instrument Exhibit, located on the lower level of Caspary Hall, has been refurbished, thanks to Professor Merrill W. Chase, the exhibit's scientific consultant, interior designer Katharine Cameron, and members of the instrument and cabinet shops, who designed the exhibit's new setting. On display are many examples of the instruments and techniques developed by the University's researchers and craftsmen. From left, Dr. Chase, Hans Schweinsteiger, who recently retired from the cabinet shop, Mrs. Cameron, and Rudolf Franz, head of the instrument shop.



A View from the Dean's Office

February 1987-March 1987

Why Publish "A View from the Dean's Office"?

by Dr. Anthony Cerami
Dean of Graduate
and Postgraduate
Studies

Behind the walls of our individual labs, it is easy to view The Rockefeller University as a large and, at times, impersonal institution. In reality, the University is but a small community: a community that stands to gain professionally and personally from greater interaction among its members.

The inauguration of "A View from the Dean's Office" to *News and Notes* is one of several new efforts designed to facilitate communication and contact among Rockefeller faculty, students, and alumni. It is my hope that this and other communication initiatives will open up new opportunities for creative and informal scientific exchange.

This insert will be a regular feature in *News and Notes*. Its focus is the interests, activities, and lives of students, junior faculty, and alumni. In addition to this insert, the dean's office has initiated several other social activities designed to foster new contacts and lay the groundwork for scientific exchange. These activities are reported here: Seven Springs weekends, scientific exchange lunches, TGIF get-togethers. By participating, junior faculty and students can forge new relationships that can strengthen their particular area of research and thus realize the benefits of cross-disciplinary interaction in this community.

Dr. Cerami surrounded by students and postdoctoral fellows at Dr. Lederberg's annual festivities held on December 19. From left, Back row: Ronald Reichel, Imre Kovessi, Anthony Cerami, Zenta Walther, Gerald Thomsen, Steven Wolpe. Front row: Margaret Wortman, Annette Lee, Sumi Koide, Barbara Kazmierczak.



Profiles

To provide greater awareness of the diversity of people and their research at Rockefeller, "A View from the Dean's Office," will carry a profile of a junior faculty member as an ongoing feature.

Kazuko Aoyagi

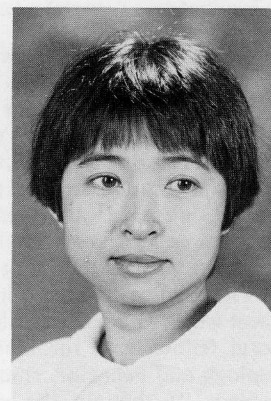
Kazuko Aoyagi's pursuit of science has not been an easy one. Not only has she had to deal with the usual pressures and difficulties of scientific training, but she has had to overcome Japanese cultural barriers against women in high-level scientific positions.

"In Japan, it is rather uncommon for a woman—especially a mother—to pursue graduate studies in science," states Dr. Kazuko Aoyagi. "When I started my studies, my daughter was starting kindergarten. I was under great pressure from my advisor and friends to give up my goal of a scientific career."

In a recent interview, Kazuko Aoyagi, a postdoctoral fellow working in Professor Nam-Hai Chua's laboratory, explained her reasons for graduate and postgraduate work in the United States. "In Japan, I was such an oddity that a national Japanese magazine ran a feature story about me. At that time, I carried around a high level of guilt."

Despite the pull of convention, she did not want to give up her goals. Thus, in 1981, Kazuko took her then seven-year-old daughter, Mura, and moved to California, where she enrolled at the University of California at Berkeley. Under a Fulbright Scholarship, Kazuko earned her Ph.D. in molecular and physiological plant biology.

In 1985, when she had the opportunity to work with Dr. Chua at Rockefeller, Kazuko and her daughter moved to New York. "I was offered several jobs, but Dr. Chua is well known in the field and I thought his lab



Lloyd Edwards

Kazuko Aoyagi

would be the best place for practical training."

Kazuko enjoys the work at Rockefeller. Currently, in order to study gene expression in plants, she is developing methods to localize gene products immunohistochemically and by in vitro mRNA hybridization.

Since these techniques are relatively new in the plant field, she finds it exciting and interesting, and feels that it will provide a powerful tool for genetic manipulation in plants.

In addition to this work at Rockefeller, Kazuko also leads the aerobics classes at the graduate student residence. Started because Kazuko was looking for a regular and economical exercise session, the classes have grown and are held Tuesday and Thursday at 6-7 P.M., Friday at lunch, and Saturday morning.

In the future, Kazuko wants to continue her research with plants. Her long range goal is to find a way through genetic manipulation to improve plant productivity and resistance to disease, particularly for underdeveloped countries. She also maintains that by staying in this field, she can encourage other Japanese women to confront convention and pursue their goals.

Seven Springs—A Social and Scientific Exchange

On November 15 and 16, thirty postdoctoral fellows, assistant professors, and research associates participated in the first scientific exchange weekend, held at Seven Springs, a 200-acre estate that boasts an indoor swimming pool, several fireplaces, conference rooms, two outdoor tennis courts, lakes, and plenty of woods for hiking in Mt. Kisco, New York.

The November event was initiated by the newly appointed dean, Anthony Cerami. The purpose of the weekend was for postdoctoral fellows, junior faculty, and research associates to get to know each other better and to learn first-hand about each other's respective scientific endeavors.

"The major function of the weekend was to encourage people in different labs to communicate and to develop greater cooperation among individuals," said Dr. Sandy Simon, a research associate in the laboratory of cell biology. According to Sandy, Seven Springs succeeded on both a social and scientific level. "I now know many more people to whom I can go for scientific and technical information. In fact, I meet on a regular basis with two people I met at Seven Springs."

In a relaxed, informal environment, participants presented 10-minute lectures on their research, using slide projectors, audiovisual displays, and blackboards. The seminars were not intended to be overly technical. Instead, each person was expected to emphasize the questions his or her research would ad-

(continued on back)

Seven Springs ... (continued)

dress, to outline the experimental strategy, and to explain why it was chosen. After the first session of talks, the group broke for lunch, and had free time until after dinner, when the second set of lectures resumed. On Sunday morning, the final presentations were made, and afterwards people were encouraged to enjoy the tranquility and beauty of the estate before returning home.

Those who attended felt the weekend was most worthwhile. Charles Mobbs, a postdoctoral fellow from the laboratory of neurobiology and behavior, summed it up best by saying, "I thought the weekend at Seven Springs was indeed a resounding success. I have a much better idea of other excellent work being done at Rockefeller, I got to know several of my colleagues, and the weekend opened avenues for further collaboration and advice."

The next outing to Seven Springs will be May 9-10. Those interested in attending should contact Pamela DeForest, assistant to the dean's office, at extension 8086.

TGIF Get-Togethers

The TGIF get-togethers held in the Faculty Club on Fridays at 5:00, following the Friday afternoon colloquia, is another new effort to provide an opportunity for students and faculty to meet people at Rockefeller.

Gerald Thomsen, a student from the laboratory of biochemistry and molecular biology, attends the TGIF get-togethers regularly. "I like to socialize," he says. "Most of the same people show up every week. It's your typical bar scene: people playing pool, drinking beer, and eating pretzels." Grinning, he adds, "I go because I like the Combos. I think the concept is very good, but actual attendance could be better."

As more people become aware of the get-togethers attendance should grow. It's a great place to meet new people, or become better acquainted with those you already know.

French and German Classes

"Parlez-vous français?" "Sprechen Sie Deutsch?" Well, if you don't, now you can. The Rockefeller University now offers elementary conversation classes in French and German for students of the University. The French class is taught by a language teacher from the United Nations, and the German class, by a Professor from the German House at New York University. The French course meets on Wednesdays and the German course on Tuesdays, both in Caspary Hall from 9 to 10 A.M.

It had been some time since the option of

learning a foreign language was available on campus, so Randy Furlong, a physics student who wanted to learn French, decided to revive an old tradition. He sent out questionnaires to students to determine if there was still an interest. The response was positive. First-year student Robert Kovelman, and second-year student Arturo Zychlinsky organized the program, which started in mid-November.

At this stage, the courses are experimental. There is one French and one German class with about 10 students in each. If the demand continues to grow, the courses will expand to offer higher levels of instruction and other languages. Robert Kovelman, who is taking the French class, is pleased that the program is underway. "I think it's good that the dean's office has provided the funds to organize language classes. It says something about what is possible here, and it shows the flexibility of the administration to accommodate the students, even outside the realm of science."

The courses are open to all students; any one interested can simply attend. Text and tapes are available. For more information contact, Robert Kovelman, extension 7608.

Scientific Exchange Luncheons Offer New Opportunities

"The labs are isolating." "There are few opportunities to meet people outside the lab." "There is no central meeting place for junior faculty." These and other concerns were motivating factors in establishing weekly scientific exchange luncheons.

Organized in late September by Dean Anthony Cerami and Associate Dean Miki Rifkin, the lunches provide a unique way for junior faculty to meet others whom they would not normally encounter in their working day and thus open up new opportunities for creative collaboration.

"Interaction outside your immediate lab group is very important," notes Michael Mowatt, a first-time attendee at the December 10 event. "Yet it is amazing what a tremendous barrier a stairwell can be. These lunches give you more exposure to people and possibilities. That is important; so often scientific enlightenment comes from left field."

Mark Rubin, who had just met Michael Mowatt at this lunch, agreed. "I have been here for three months and it is difficult to meet people outside my lab group. This is a great opportunity to get to know people whom I probably would never have met."

The informal lunches of sandwiches and dessert attract about 60 people a week. Those

Culture at a Discount

A major concern for students and postdoctoral fellows is the high cost of cultural events, which prevents many from enjoying the advantages of city life. Now all Rockefeller faculty, postdoctoral fellows, and students will be able to purchase discount tickets to Broadway theaters through Clubtix.

Clubtix is run by Regina Davis. She can be found on the main floor of Olin Hall, Cornell University Medical College, Tuesdays through Fridays, 2-5 P.M. On Tuesdays, she posts her ticket list for the week. This list can also be found on the bulletin board in front of the dean's office, Bronk 202. More tickets also become available throughout the week. She sells vouchers, advance discount tickets, two-fers, and discounts to restaurants. There is a weekly recorded message of events at 305-4153.

The cost to join Clubtix is \$20 per year. From now until June, it will be \$10. You can join by going to Ms. Davis at Olin Hall with your Rockefeller I.D. card. If you have any questions, you can call her between 2 and 5 P.M. at 472-4961.



George Byron

Junior faculty enjoying the December 10th lunch.

who attend hope others will join them. The cross-disciplinary contacts made at these lunches could be invaluable to future research.

"Many people don't realize that this is just an informal get-together with free food and no pressure. It is one of the few opportunities where biologists can talk to physicists and chemists," states Steven Wolpe, who attends the lunches regularly.

Lunches are now held on Tuesdays at 12:00 in the Abby Dining Room. All junior faculty are invited to attend.

Honors and Awards

The **William O. Baker** Professorship of Computer Science was established in October by Princeton University in honor of Dr. Baker, chairman of the Rockefeller board of trustees and retired chairman of the board of Bell Laboratories. Professor Robert Sedgewick, chairman of the Department of Computer Science at Princeton, has been named to the post.

Professor **Günter Blobel**, Cell Biology, and Rockefeller alumnus **David Sabatini**, professor and chairman of the Department of Cell Biology, New York University School of Medicine, were co-recipients of the 1986 E.B. Wilson Award of the American Society of Cell Biology, presented in Bethesda, December 9. They were honored for their "contributions to the understanding of the regulation of protein traffic regulation in eukaryotic cells."

Professor **Paul Greengard**, Molecular and Cellular Neuroscience, has received the Pfizer Biomedical Research Award, supported by Pfizer, Inc., which provides \$500,000 of unrestricted funding over five years. It was presented in recognition of Dr. Greengard's contributions to the understanding of phosphoproteins and their role in disorders of the central nervous system.

Professor **Hidesaburo Hanafusa**, Viral Oncology, has been elected an honorary member of the Japanese Cancer Association.

Professor **Paul B. Lazarow**, Biochemical Cytology, has been selected as a 1986/87 Wellcome Visiting Professor in Cell Biology by the American Society for Cell Biology and The Burroughs Wellcome Fund. He will lecture at Iowa State University in Ames, June 1-5.

Adjunct Professor **Robert K. Merton**, University Professor Emeritus, Columbia University, has been designated the first holder of the George Sarton Chair in the History of Science at the University of Ghent, Belgium, where he delivered the inaugural lecture and received the first George Sarton Medal on November 28.

Friends and colleagues gathered on December 30 to celebrate the retirement of Arthur Ford, left, and Erik Dundas, members of the security office for 14 and 13 years, respectively, shown here with Director of Security Edward Clarke, center.



Feigenbaum ... (continued from page 1)

With the help of powerful computers, Dr. Feigenbaum seeks to find equations that will predict details of erratic phenomena as accurately as classical theorems predict the escape velocity of a launched missile. One of the problems currently under consideration is how to deal with what is called in scientific parlance the "sensitive dependence on initial conditions," or more commonly, the "butterfly effect." This occurs when minuscule differences in input result in overwhelming results in output, as for example, a butterfly beating its wings in Rome affecting the weather over Chicago. Applying a technique of mathematics called scaling, Dr. Feigenbaum is able to isolate essential details to make discernible patterns that would otherwise be obscured by this effect.

Dr. Feigenbaum has received many awards and honors, including the 1980 Distinguished Performance Award from the Los Alamos National Laboratory, where he was a staff member from 1974 to 1980, and a Fellow from 1981 to 1982. He received a McArthur Foundation Award in 1984, the Ernest O. Lawrence Award in 1982, which was presented by the U.S. Department of Energy, and the 1986 Wolf Foundation Prize in Physics, Israel's top scientific honor.

From 1982 until his Rockefeller appointment, he was a professor in Cornell University's Department of Physics, and Laboratory of Atomic and Solid State Physics.

Born in Philadelphia, Pennsylvania, Dr. Feigenbaum received a B.E.E. from the City College of New York and a Ph.D. in theoretical physics from the Massachusetts Institute of Technology. He has been on the faculty of the Virginia Polytechnic Institute, a visiting member of the Institute for Advanced Studies, and a Fellow of the theoretical division of the Los Alamos National Laboratory.

Promotions

Shinichi Miyairi, Biochemical Endocrinology, and **Marjorie Russel**, Genetics, to assistant professor, effective January 1.

Peter Model, Genetics, to professor, effective February 1.

George N. Reek, Jr., Developmental and Molecular Biology, to associate professor with tenure, effective February 1.

New Generator To Be Installed

The University's board of trustees has approved plans to allocate funds from a 1985 challenge grant from the Kresge Foundation (see *News and Notes*, October-November, 1985) for the purchase of a new co-generation plant to supplement the present power system.

Because of the increasing energy requirements of the University's laboratories and offices, the power plant's capacity needs to be increased, according to Vice President David J. Lyons. "The generator, which can be fueled by either oil or gas and will produce both electricity and steam, is a cost-effective way to meet this need," he states. "It will decrease dependence on Con Edison, and serve as an emergency back-up system should Con Ed impose a voltage reduction or experience a power failure."

Lab Report: Mapping the Brain

Techniques for mapping the circuitry of the brain have been developed by a joint research team from the Weizmann Institute of Science, the IBM Thomas J. Watson Research Center, and the University.

The group is headed by Amiram Grinvald, currently a visiting associate professor in the Rockefeller neurobiology laboratory of Professor Torsten Wiesel and an adjunct staff member at IBM.

Messages between body and brain are relayed in the form of electrical impulses through an elaborate network of nerve cells, or neurons. As reported recently in *Nature*, Dr. Grinvald and his coworkers have devised a method for electronically recording and visualizing the slight variations that occur in the transparency of brain tissue in response to this activity.

"As the brain circuits 'light up' while communicating sensory input, large areas can be mapped with a degree of spatial and temporal accuracy far exceeding that of Positron Emission Tomographs (PET) and other approaches based on radioactive emissions," says Dr. Grinvald. "Also, many experiments can be performed on the same subject and observed over time."

While the technique can detect neuronal messages of the speed of a second or more, it is not fast enough for "real time" imaging of signals occurring in thousandths of a second. To achieve a more detailed picture of how messages travel in the brain and the way they are processed, Dr. Grinvald's team has been

(continued on page 4)

Briefs

Professor **Hidesaburo Hanafusa**, Viral Oncology, has been named an editor of *Oncogene Research*, a new monthly journal, published by Harwood Academic Publishers, dedicated to reports of significant advances in basic cancer research and studies of growth regulation.

Physician-in-Chief and Professor **Attallah Kappas**, Metabolism-Pharmacology, gave the opening lecture, "The Basic Biochemistry of Cellular Heme Metabolism," at a symposium, "Mechanisms of Chemical-induced Porphyrinopathies," sponsored by The New York Academy of Sciences, in Ryebrook, New York, October 27-29. Other invited speakers from the laboratory were Professors **Shigeru Sassa** on "Genetic Regulation of the Heme Pathway," **George S. Drummond** on "Control of Heme Metabolism by Synthetic Metalloporphyrins," and **Richard A. Galbraith** on "Hormonal Regulation of the Heme Pathway."

Professor **Robert G. Lahita**, Immunology, has been appointed medical director of the Lupus Foundation of America, headquartered in Washington, D.C.

President Lederberg testified on January 12 before the Senate Committee on Labor and Human Resources, chaired by Senator Edward M. Kennedy. He summarized current major public health challenges, the opportunities for medical research strategies made possible by recent advances in biology, and the problem of transferring the benefits of research findings to medical practice.

President Lederberg and Professors **Christian de Duve** and **Bruce Merrifield** were among 90 Nobel laureates attending the American Nobel Anniversary celebration and dinner forum held in New York on December 9. The non profit American Nobel Committee, which sponsors the forum, has announced the establishment of the American Nobel Fellowships to be awarded every other year to graduate students in physics, chemistry, medicine, and economics, selected by Nobel laureates. The first awards will be made on December 9, 1988.

Senior Fellow **William Lowrance**, director of the Life Sciences and Public Policy Program, gave an address on "Quantitative Risk Assessment," to the American Academy of Occupational Health, in Washington, D.C., on November 12.

Professor Emeritus **Neal E. Miller**, Physiological Psychology, has been elected to a three-year term as a Governor-at-Large of

the New York Academy of Sciences Board of Governors.

An Italian edition of *Subtle Is the Lord ... The Science and the Life of Albert Einstein*, by Professor **Abraham Pais**, Theoretical Physics, has been published by Editore Boringhieri. The book was the subject of a one-day conference organized by the Scuola Normale Superiore di Pisa and the Istituto di Studi Filosofici di Naples, held in Florence, December 15.

Professor **Anthony I. Sanda**, Theoretical Physics, gave two invited talks in Japan last June: "CP Violation and Mixing," at the International Conference in Neutrino Physics—Neutrino '86, in Sandai; and "Observable Physics from Superstring Exotic Particles: Small Dirac Neutrino Masses," at the International Conference on Double β Decay, in Osaka. In September, he delivered the summary talk on "The KM Model and Topics in Electroweak Interactions," at the 6th International Conference in Physics in Collision, held in Chicago.

Rockefeller in the Running

Continuing its run of success, the University's running team finished third in the non-national men's division of the Manufacturers Hanover Corporate Challenge Championship race, held on November 23.

Representing the University in the 3.5 mile event were Hon Ip, Michael McDevitt, John Pearson, Walter Severini, John Taylor, and Ramon A. Paez, the team's captain.

The next races for the team will be the Manufacturers Hanover Corporate Challenges in Central Park in June and July. Those interested in joining can call Mr. Paez on extension 8324.

Remembering Fritz Lipmann

The University paid tribute to Fritz Lipmann, one of the world's most honored and beloved biochemists, a Nobel laureate, and a member of the Rockefeller faculty for nearly 30 years, at a memorial concert on the afternoon of December 12.

In a talk preceding the performance, Professor Christian de Duve recalled some of the highlights of Dr. Lipmann's long and fruitful career, which ended only with his death last July. Dr. de Duve opened by remarking: "Most of us are bricklayers. We are happy to add a stone to the edifice of science. . . . A rare few have the vision of an architect. They somehow see the whole building long before it is completed. Fritz Lipmann was such a visionary."

Appointments

C. Yan Cheng, Population Council, as assistant professor, effective December 1.

Ulric Childs Dies

Ulric Childs, an electronics engineer who came to the University in 1964 and served as electronics shop supervisor from 1966 until his retirement in 1976, died on December 18 at the age of 75.

Mr. Childs was an accomplished flutist and flute teacher. On January 30, a memorial gathering in his honor was held at the University at which friends and colleagues performed in musical tribute.

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continuing work on another version of optical imaging which utilizes chemically engineered fluorescent dyes developed by Dr. Grinvald at the Weizmann Institute. These dyes bind to nerve cells and transform their electrical signals into light signals.

It took many years to develop this complicated technique. Its feasibility was first demonstrated in 1968 by Ichiji Tasaki of the National Institute of Mental Health, and significantly advanced by Lawrence B. Cohen at the Yale University School of Medicine and his colleagues, including, at that time, Dr. Grinvald.

The fluctuations in luminescence can be monitored with sensitive light-measuring devices, and by using an array of light sensors, the activity of many individual cells can be simultaneously recorded and detailed patterns of their activity visualized in slow motion on a television monitor.

At Rockefeller, a group composed of Drs. Edmund Lieke, Ron D. Frostig, Charles D. Gilbert, and Drs. Grinvald and Wiesel recently refined the technique to image the spatio-temporal patterns of neuronal assemblies in the visual cortex of cats and monkeys.

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