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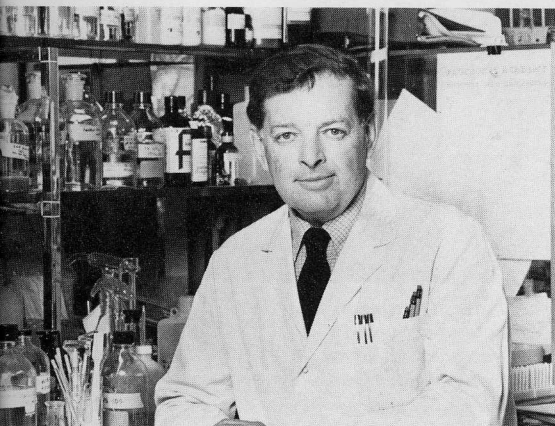
February-March 1986
Volume 17, Number 3

Chairs to Breslow, Hanafusa, Tamm; Cohn Named First Kunkel Professor

Zanvil A. Cohn, head of the laboratory of cellular physiology and immunology, has been named the University's first Henry G. Kunkel Professor. The chair has been created by the board of trustees to honor the world-renowned Rockefeller immunologist who died in 1983, and is supported by a grant from the Lucille P. Markey Charitable Trust.

Also, Jan L. Breslow succeeds Edward H. Ahrens, Jr., now emeritus, as Frederick Henry Leonhardt Professor; Hidesaburo Hanafusa has become Leon Hess Professor, a post held by Purnell W. Choppin until his recent appointment as vice president and chief scientific officer of the Howard Hughes Medical Institute; and Igor Tamm has been appointed Abby Rockefeller Mauzé Professor, formerly Dr. Kunkel's title.

Dr. Cohn, a member of the Rockefeller faculty since 1958, studies the cells of the immune system, particularly macrophages. Much of what is known of the structure and function of macrophages has come from work in his laboratory. In recent years, he and other researchers have learned that sometimes, instead of destroying invading microorganisms as they are supposed to, macrophages harbor them, providing a shelter in which they multiply and attack the host organism. His laboratory has investigated this phenomenon in Legionnaires' disease, Leishmaniasis, Chagas disease, and leprosy. The insights and technology gained from this work have now led Dr. Cohn to initiate investigations into the pathogenic processes of acquired immune deficiency syndrome (AIDS).



Zanvil A. Cohn

The Lucille P. Markey Charitable Trust, with funds deriving from the estate of the late Mrs. Markey, owner of Calumet Farm, is one of the largest private philanthropies in the country devoted solely to support of basic medical research. Since 1979, the Trust has contributed a total of \$4.6 million to advance immunological studies at the University.

Dr. Breslow, a leader in research on atherosclerosis and heart disease, came to The Rockefeller in 1984 to establish the laboratory of biochemical genetics and metabolism. Patients with a family history or early occurrence of coronary artery disease are studied and treated in his clinic in the Hospital.

(continued on page 2)

NIH Funds RU-St. Luke's Obesity Center

The National Institutes of Health has provided over four million dollars for an Obesity Research Core Center, to be established jointly at the Rockefeller Hospital and St. Luke's-Roosevelt Hospital Center.

Principal investigators for the new five-year program, an expansion of the obesity research center at St. Luke's and the only obesity core research center funded by NIH, are Professor Jules Hirsch, head of the laboratory of human behavior and metabolism at The Rockefeller, and Dr. Theodore van Itallie of St. Luke's, who is also a member of the University's adjunct faculty.

"Our aim," says Dr. Hirsch, "is to mount a concerted, broad-scale effort to understand the nature of obesity. We will be intensifying efforts in our own laboratories and in collaborations with scientists from other institutions and disciplines."

At The Rockefeller, Dr. Hirsch and his colleagues Irving Faust and Rudolf Leibel will be conducting extensive in-patient studies in addition to continuing research on the cellular and metabolic processes of obese tissue. Studies at St. Luke's focus on body composition and the level of hormones and metabolites in human and experimental obesity. The program also includes a laboratory for the study of animal models of obesity in the Department of Biology of Vassar College, under the direction of M. R. C. Greenwood, a Rockefeller graduate and former member of Dr. Hirsch's laboratory.



At Robert Channell's retirement party on January 16. From left, Kenneth Schmitt, retired associate superintendent of plant operations, Erika Mueller, supervisor, plant operations, Mr. Channell, and Carl Tiden.

Channell, Tiden Retire; Roth and Franz Succeed

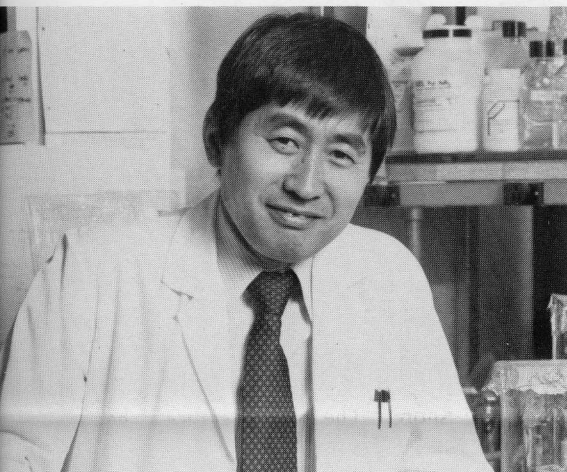
Robert Channell remembers being a bit leery about coming to a place called an "institute." He remained to become himself an institution. Carl Tiden came via Sweden and the Midwest and has been a most "instrumental" part of Rockefeller research.

These two stalwarts, after 40 and 31 years, respectively, have now retired. Mr. Channell is succeeded as supervisor of the cabinet shop by Eugene Roth, formerly shop foreman, and Rudolf Franz succeeds Mr. Tiden as instrument design engineer and head of the instrument shop. John Doherty has assumed Mr. Franz's former responsibilities as associate instrument design engineer.

Mr. Channell was introduced to The Rockefeller, after service in World War II, by Joseph Tekverk, the father of a friend and then foreman of the cabinet shop. It was going to be a temporary job, he says, but the University turned out to be a place where "something interesting is always happening. Every time the phone rings it's a new experience."

The results of those phone calls and requests for the shop's expertise in solving problems of construction and repair can be seen in every Rockefeller laboratory and office. Attention to detail and pride in lasting workmanship is the cabinet shop's hallmark. As Director of Physical Facilities Thomas McGinnity has said of Bob Channell and his group, "they always go the extra mile to make sure the job is done right."

Carl Tiden also came to The Rockefeller at the invitation of a friend, Nils Jernberg, with (continued on page 3)



Hidesaburo Hanafusa

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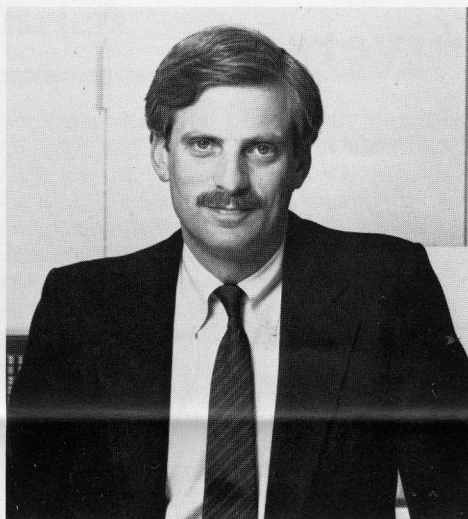
Largely through techniques developed by Dr. Breslow and his colleagues, the genes that control the synthesis of lipoproteins—the particles that carry cholesterol in the blood—have been isolated, characterized, and mapped on human chromosomes. In earlier work at Harvard, his group was responsible for the first demonstration, at the DNA level, of a genetic lesion causing atherosclerosis.

Dr. Hanafusa, head of the laboratory of viral oncology since 1973, studies the process of virus-induced cancer. His primary model is Rous sarcoma virus, named for Rockefeller scientist Peyton Rous, who made the discovery in 1910 that viruses can cause cancer in animals. In the last few years, Dr. Hanafusa's investigations have helped to clarify the relationship between viruses and human cancer genes, or oncogenes, work that earned him an Albert Lasker Basic Medical Research Award in 1982.

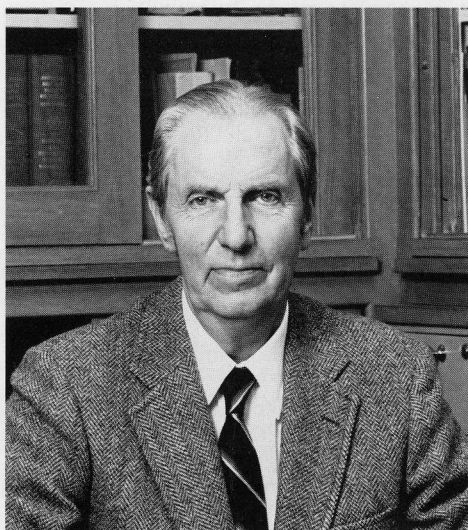
Dr. Tamm has spent 37 years at The Rockefeller, becoming co-leader of the virology laboratory with Dr. Choppin in 1964. His research has provided major contributions to the understanding of the biochemistry of viruses, how viruses replicate within the cells they invade, and how they affect the genetic material of their host cell. In recent studies, he has been working to explain the activity of interferons, substances secreted by the body in response to viral infection.

Anniversary and Retirement Dinner

On May 5 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.



Jan L. Breslow



Igor Tamm

Javits Center at RU

The Rockefeller is one of four universities selected by the National Institute of Neurological and Communicative Disorders and Stroke to establish the first Senator Jacob Javits Centers of Excellence in Neuroscience. Other centers will be at the University of California, San Francisco; Washington University, St. Louis; and Yale University.

Professor Gerald M. Edelman will lead the Rockefeller program, in cooperation with Professors Paul Greengard and Torsten N. Wiesel.

Grants to the centers of \$750,000 a year for five years will support basic studies of the nervous system toward the goal of better understanding and treatment of neurological disorders. The centers are named in honor of the former New York senator who suffers from amyotrophic lateral sclerosis, also known as Lou Gehrig's disease.

In Print

Quest for the Killers, by Adjunct **June Goodfield**, has been published by Birkhauser Boston, Inc. The book, which Dr. Goodfield began during her six years as a senior research associate at the University, recounts stories of five ground-breaking achievements in contemporary biomedicine. She describes the sequence of steps that medical scientists followed in their efforts to control smallpox in Bangladesh, leprosy in Nepal, kuru in Papua New Guinea, hepatitis B in New York, and schistosomiasis in St. Lucia in the Caribbean. Dr. Goodfield's book inspired a companion television series for public television, broadcast in September and October.

The Breaking of Bodies and Minds, a book co-edited by Rockefeller alumna **Elena O. Nightingale**, special advisor to the president, Carnegie Corporation of New York, has been published by the American Association for the Advancement of Science and W. H. Freeman & Co. of New York. Dr. Nightingale also contributed a chapter, "Toward the Prevention of Torture and Psychiatric Abuse." Trustee **David A. Hamburg**, chairman of the Carnegie Corporation, wrote the foreword to the book, which details the use of physical and mental torture and the role played by medical personnel.

Habib to Lecture

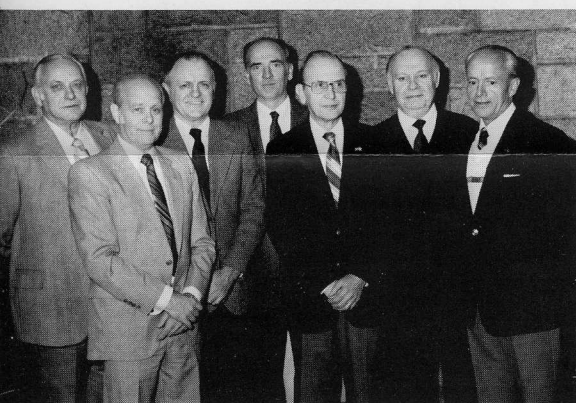
As part of the New York University-Rockefeller University Joint Program in Science and the Humanities, Ambassador Philip C. Habib, former Under Secretary of State and personal representative of the President to the Middle East from 1981 to 1983, will present the spring evening lecture on March 27 in Caspary Auditorium at 8 P.M. For more information, call the NYU Humanities Council at 598-3685.



The University's running team finished in first place in the "non-national coed team" division of the Manufacturers Hanover Corporate Challenge, a six-mile race held in Central Park on November 24. From left, Michael McDevitt, Katherine Young and Gisele Nimic with the trophy, and Ramon Perez.

Convocation

The University's 28th convocation for conferring degrees will be held on Tuesday, June 17, in Caspary Auditorium, at 3 P.M.



Carl Tiden, third right, joined by Instrument Shop co-workers past and present at his retirement party on December 1. From left, Bruno Sobik, Ludwig Senden, Rudolph Franz, John Doherty, Mr. Tiden, Rudolph Josephs, and John Braun.

(continued from page 1)

whom he had worked in Sweden and whom he succeeded, in 1982, as instrument design engineer. Over the years, he helped to design and construct instruments ranging from special test tube holders to artificial joints, working typically from scientists' rough sketches or verbal descriptions. "Sometimes they understood what was mechanically possible," he recalls, "and sometimes I would have to re-think what it was they wanted."

He worked on the optic manipulator used by H. Keffer Hartline in experiments on the eye of the horseshoe crab, the first amino acid analyzer made for William Stein and Stanford Moore, and a constant-flow centrifuge assembled for Christian de Duve's cell studies.

"When you think about it," he reflects, "so much of what The Rockefeller University is known for came about in collaboration with this shop. When scientists have new ideas, it means new instruments."

Now that he has retired, Mr. Tiden, once a watchmaker, plans to restore antique clocks. Interested in nature photography, he has begun taking pictures of the environs of his home in Pearl River, in upstate New York.

Although Bob Channell will be doing some traveling around the country with his wife, he will be returning regularly to the campus as a consultant. Both he and Carl Tiden have asked *News and Notes* to convey their thanks to all their friends and associates at The Rockefeller for the retirement gifts and for making their farewell parties happy and memorable occasions.

Books by Mark Kac

The Enigmas of Chance, autobiography of the late Rockefeller mathematician Mark Kac, has been published posthumously by Harper & Row. The sixth book in the Alfred P. Sloan Foundation series of memoirs by eminent scientists, it traces Dr. Kac's youth in Poland through his long career in mathematical research in the United States.

Discrete Thoughts: Essays on Mathematics, Science, and Philosophy, a book co-authored by Dr. Kac, Gian-Carlo Rota, a former member of Dr. Kac's Rockefeller group, now at the Massachusetts Institute of Technology, and Jacob T. Schwartz of New York University, has been published by Birkhauser Boston, Inc.

Dr. Kac's fundamental discoveries in probability theory helped make that field a branch of mathematics. He was a pioneer in applying probability theory to other branches of mathematics, such as number theory, and to physics. He was revered as a lecturer, expositor, and raconteur, and a champion of human rights.

Tonegawa To Give McMaster Lecture

Susumu Tonegawa, professor of biology at the Center for Cancer Research of the Massachusetts Institute of Technology and a specialist in the study of the genes that code for the proteins of the immune system, will deliver the 1986 Philip D. McMaster Memorial Lecture on May 2, at 3:45 P.M. in Caspary Auditorium. The lecture is named in honor of the late pathologist and physiologist, who was associated with The Rockefeller for more than half a century.

Promotions

Gilla Kaplan, Cellular Physiology and Immunology, to assistant professor, effective December 29, 1985.

Lester T. May, Virology, and **Michele Sawadogo**, Biochemistry and Molecular Biology, to assistant professor, effective January 1.

Identification Cards

For security reasons, please safeguard your Rockefeller University identification card and have it renewed shortly before its expiration date. There is a charge for replacing lost cards. There is no charge for renewing.

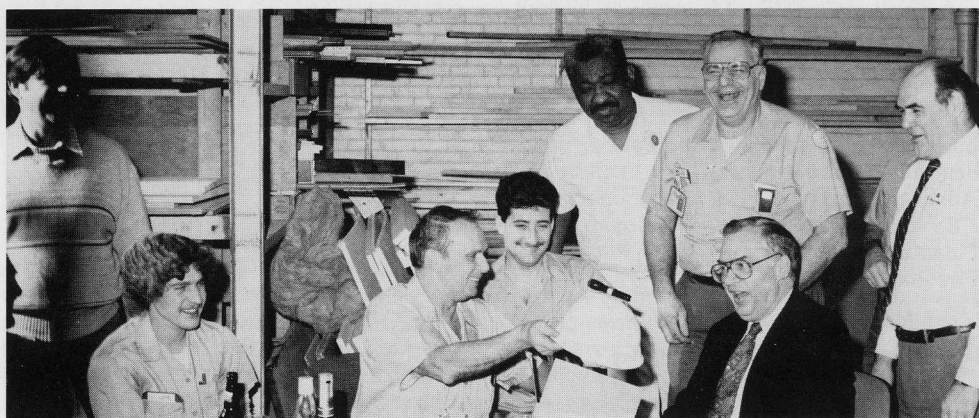
Personals

Born December 25, to Security Guard **Michael John** and his wife, Sandra, a daughter, Amanda Michaela.

Born, December 2, to **Patrick J. Morris**, a technologist in the radiology department of the Hospital, and his wife, Ellen, a daughter, Kaitlin Ashley.

Maria L. Schmidt, assistant for research, Bacteriology and Immunology, was married on November 2 to Michael T. Pace, a painting contractor.

Born November 18 to **Jacqueline A. Winn**, assistant counsel, General Counsel's Office, and her husband, Robert Friedlander, a daughter, Jocelyn.



Robert Channell, third left, accepts a farewell gift at the Cabinet Shop's Christmas party on December 23. From left, Eugene Keveney, Michael McGarry, Mr. Channell, Stephen Sanginario, Paint Shop Supervisor Charles Baird, Eugene Roth, Vice President David Lyons, and Vance Park, construction representative for the Scholars Residence.



From left, Day Charge Nurse Patricia Raymond, Kathy Whelan, assistant, nursing administration, Carmen Schmidt, and Elizabeth Straight.

"My Work, Life, Home"

"You couldn't have your father or brother up to your room," laughs Director of Nursing Elizabeth Straight, remembering the 1960s, when she first arrived at the Hospital and nurses still lived on campus. But life was even stricter in the very early days, as she and Assistant Director Carmen Schmidt discovered in researching the history of nursing at The Rockefeller, their own special Hospital anniversary project.

Seventy-five years ago, when the Hospital opened, day nurses worked seven days a week, two of them half-days, the others for twelve-hour shifts. Night nurses had one evening off each week, but they had to be in by 10 o'clock. "To walk out the York Avenue gates without hat and gloves," says Miss Straight, "was decidedly frowned on."

The clinical research team consisted of physician-investigators and nurses. There were no dietitians, pharmacists, medical records personnel, social workers, physical therapists, aides, orderlies, or secretaries. The nurses were responsible not only for patient care (without the aid of antibiotics, insulin, or IV solutions), but also for meal preparation and service, dishwashing, and dusting. There were no disposable supplies,

so all syringes and instruments were washed, sharpened, packaged, and sterilized by the nurses. The night superintendent had the added task, in the summer, of gathering flowers at dawn for the dining room.

Despite the regulations and work load, Sophia Bochmier, a nurse who began her career at the Hospital in the 1920s and remained for 32 years, told Miss Straight, "It was gracious living, and each day a maid turned down our beds and lighted a lamp. Really, it was my work, life, and home."

Although Rockefeller nurses no longer must be unmarried graduates of The Johns Hopkins School of Nursing, live on campus, and work 72-hour weeks, their commitment to nursing and their belief that The Rockefeller is one of the best places to practice their profession remains the same.

"You get to see patients you would never see in a regular hospital setting," says Outpatient Charge Nurse Martha Galatola. "The environment stimulates you to learn about the medical conditions. Your perception and understanding of the relationship between disease process and physiological parameters is greatly enhanced."

In recent years, Rockefeller nurses have assumed increasing responsibility for complex areas of patient care, assessment, monitoring, and documentation. They staff and supervise the Employee Health Service and participate in the campus medical emergency team.

Miss Straight is the fifth nursing director at the Hospital; her predecessors were Nancy Ellicott, Alice Lockie, Georgina Drew, and Josephine Armstrong. The 16 registered nurses under her supervision come from varied backgrounds—intensive care, open heart surgery, emergency, neurology, general medical, and surgical units.

Two nurse practitioners on campus serve as liaisons between the laboratory and other services within the Rockefeller Hospital and other hospitals. Rachael Kolb, a member of the human behavior and metabolism labora-

tory of Professor Jules Hirsch, and Dorothea Caldwell of the investigative dermatology laboratory of Professor D. Martin Carter, assist in coordinating studies, collect data, recruit patients, do physical assessments, teach patients, and contribute to their daily management and long-term support.

There are five service nurses attached to laboratories who do protocol testing on patients and assist with laboratory analysis. Clinical Lab Coordinator Susan Capobianco, a former staff nurse, is responsible for the collection and processing of all specimens and reports.

For the past five years, Miss Straight and Mrs. Schmidt have been working with The



At a patient conference at the Hospital, from left, Staff Nurse Lynn Morrison, Research Dietitian Ellen Fuss, Nurse-practitioner Dorothea Caldwell, and Marjorie McCarty, head of the Hospital's social service unit.

National Association of Research Nurses and Dietitians through committees, panel discussions, and presentations at national meetings. Miss Straight, an Association member of 20 years standing, is currently its president-elect. On the local level, her department has organized meetings with speakers on such topics as AIDS research, Alzheimer's disease, and informed consent for medical subjects.

Rockefeller nurses regularly attend workshops, seminars, and classes on nursing care. In 1983 a research nursing continuing education workshop organized by the nursing department was held at the University and attended by more than 60 participants from five states. This year the Hospital welcomes its first nursing students, from the Hunter-Bellevue School of Nursing, to provide them with clinical experience in a research hospital setting.

During their historical explorations, Miss Straight and Mrs. Schmidt came upon an old hospital supply catalog, which included the "Ellicott Back Rest," designed by the first nursing director and described as affording "a comfortable, cool and flexible support." "There are times," says Miss Straight, "when I wish I had one of them in my office."



Nurse-practitioner Rachael Kolb and patient.

The Scientist as Writer

Subscribers to *The New Yorker* magazine know Jeremy Bernstein for his profiles of such scientists as I. I. Rabi, Hans Bethe, and Lewis Thomas. In addition to being an award-winning journalist, Dr. Bernstein is known among scientists as a physicist and the author of numerous papers on elementary particle physics. He has been on the physics faculty of the Stevens Institute of Technology for 18 years.

In 1976 Dr. Bernstein spent some time at The Rockefeller University collaborating on a paper with Professor M. A. B. Bég. He has returned this year to work again with Dr. Bég, on a question involving neutrinos. These particles were created at the beginning of the universe in what cosmologists call the Hot Big Bang. Physicists surmise that the collective mass of neutrinos may determine whether the universe will continue to expand indefinitely or, at some time in the future, cave in on itself.

Always intrigued by writing, Dr. Bernstein's journalism career began in 1960 when his account of teaching physics in Corsica was published in *The New Yorker*. Editor William Shawn urged him to continue writing about scientific investigation as a form of experience, advice he has followed for the past 26 years. His sixth and most recent book, *Three Degrees Above Zero: Bell Labs in the Information Age*, is a vivid portrait of this country's most influential industrial research center for the communications industry and an eloquent argument for the need for unhindered basic research.

"A great deal of my writing has involved the long, and often painful process of self-education," Bernstein has written. As a 19-year-old Harvard undergraduate, the excitement of discovering that he, too, could understand Einstein's theory of relativity launched him on a career in physics.

Dr. Bernstein explains that today's hard observational data impose constraints on cosmological theorists. When describing the universe's origin and mechanics, scientists in the 20th century cannot indulge in the wild speculations of some of their predecessors. Working with Professor Bég provides the

"powerful analytic mathematical framework" that assists Dr. Bernstein to rigorously formulate his theoretical inquiries.

The current Bég-Bernstein collaboration is "still in the discussion stages," but Dr. Bernstein describes the process with the appropriate cosmological imagery. "First, there is a lot of talk. After a while, something someone says triggers a spark. And then—you have a collaboration."

Chinese Science: Gaining Momentum

Following more than a decade of turmoil, China is now on a new path of stability. Since the Cultural Revolution of the Sixties and Seventies, far-reaching rearrangements in its agricultural and economic structure are enabling China to feed its millions. Two Rockefeller scientists recently returned from separate lecture tours of Chinese universities and research institutes report that the country is also working to increase its potential in science.

"While not yet caught up with Western proficiency in research, the Chinese are accomplishing much good work," comments Professor David C. Mauzerall, who was invited to China to lecture on his particular area of biophysics, which concerns the biological effects of light. He spoke at the International Congress of Photochemistry in Beijing, and subsequently visited and spoke at six other universities and research institutes during his four-week visit.

"The students were reticent and wouldn't respond even when I asked them a direct question," recalls Professor Robert Schoenfeld, head of the electronics laboratory, who was invited by the chairman of computer science in the graduate school of the University of Science and Technology of China, Academia Sinica, to deliver a total of 35 hours of talks on computer systems.

But as Dr. Schoenfeld's visit progressed, the audiences became more responsive during the lecture breaks and after the sessions. Students and professors alike sought his advice on projects. At the Beijing Institute of Computer Application Technology, he discussed

with one scientist the possibility of designing a computer information system for Chinese traditional medicine.

Further illustrating the recent lacuna in Chinese scientific development was the age of buildings and equipment. Cluttered, dusty laboratories from before the Cultural Revolution were juxtaposed with new labs equipped with modern instruments purchased from the United States or Japan or manufactured by the Chinese themselves.

While at Jiaotong University, Dr. Schoenfeld visited a computer factory where the fabrication and assembly of printed circuits is similar to methods used at the Rockefeller's Electronic Shop. "The big difference," he says, "is that in Jiaotong, where they lack prefabricated components, every step has to be done from scratch."

While much of the experimental apparatus may be improvised, Chinese researchers have already produced surprising and important results. For example, Dr. Mauzerall was shown a homemade xenon laser that was used to detect the fluorescence of porphyrins, which the Chinese scientists claim is a characteristic of some cancer cells and makes them easier to spot.

Accompanying their husbands, the wives of the two RU professors took advantage of their invitation to observe recent developments in their respective professional fields. Dr. Mauzerall's wife, Dr. Miriam Jacob, a science writer specializing in genetic engineering, surveyed the latest developments in Chinese bio-technology and her findings will be published. Florence Schoenfeld, educational administrator in the Division of Curriculum and Instruction of the New York City Board of Education, observed teaching methods in several Chinese schools, including a school for the deaf and for the mentally retarded. In addition, she gave a series of lectures on teaching methodology to Chinese in training to become English language teachers.

Squeezed into their busy schedules, the Mauzeralls and Schoenfelds enjoyed tours of museums and archaeological discoveries and were treated to several banquets held in their honor. "Conversations with hosts and colleagues were frank and pragmatic," remarks Dr. Mauzerall. "If the Chinese can remain on this balanced road," he says, "the future of science in China is bright."

Richard Robinson of the development office and Peggy Hempstead of the Population Council entertaining at the patients' Christmas party on December 20.



Alumni Briefs

Arthur Karlin (1962), professor of biochemistry and neurology at Columbia University College of Physicians and Surgeons, received The Louis and Bert Freedman Foundation Award for Research in Biochemistry from the New York Academy of Sciences at its 168th annual meeting, held December 12 in New York.



Richard Rockefeller (left) and James D. Wolfensohn (right)

New Trustees

Richard G. Rockefeller, a physician practicing family medicine in Yarmouth, Maine, and James D. Wolfensohn, president of James D. Wolfensohn Incorporated, a New York-based advisory and investment firm, have been elected to the University's board of trustees.

Dr. Rockefeller, son of Trustee David Rockefeller, is associated with Mercy Hospital and Maine Medical Center, both in Portland. He is also a clinical associate professor of family practice at the Maine Medical Center's Family Practice Residency Program. Following the completion of his bachelor's degree in social studies and his master's degree in education, both from Harvard University, Dr. Rockefeller graduated from Harvard Medical School in 1979. In 1982 he completed his residency in family medicine at the University of Rochester in the Highland Hospital Family Medical Program.

He is a trustee of The Rockefeller Family Fund and the Portland Museum of Art, and a member of Physicians for Social Responsibility.

James D. Wolfensohn served as an executive partner in the New York investment banking firm of Salomon Brothers before establishing his own firm in 1981. Prior to joining Salomon Brothers in 1977, he was executive deputy chairman and principal executive officer of Schroders Limited.

Born in Australia, he holds B.A. and LL.B. degrees from the University of Sydney, and an M.B.A. from the Harvard Graduate School of Business. Among his affiliations, Mr. Wolfensohn is chairman of the board of Carnegie Hall Corporation, president and vice-chairman of The Institute for Advanced Study, in Princeton, a director of CBS Inc., and a trustee and chairman of the Finance Committee of The Rockefeller Foundation.

Appointments

John A. Zelano, Electronics and Laboratory Microprocessors, as assistant professor, effective January 1.

Briefs

Professors **Nam-Hai Chua**, Plant Molecular Biology, and **Robert G. Roeder**, Biochemistry and Molecular Biology, delivered lectures at The Sixth Annual Congress for Recombinant DNA Research, in Baltimore, January 26-29. Dr. Chua spoke on "Phytochrome-mediated and Organ-specific Expression of Monocot and Dicot Genes in Transgenic Plants" and Dr. Roeder on "Factors and Mechanisms Involved in the Regulation of Eukaryotic Transcription."

Professor **Emil T. Kaiser**, Bioorganic Chemistry and Biochemistry, was a speaker on "Innovations in Pharmaceuticals and Immunology," and a panelist in a seminar in peptide design at "Bio/Technology Looks to the Next Decade," the first international conference sponsored by *Bio/Technology* magazine, in New Orleans, January 20-22.

Professor **Fritz Lipmann**, Biosynthesis, gave an invited lecture at the second annual Nobel Laureate Lectures of the Department of Mathematics and Computer Science of Montclair State College, New Jersey. He spoke on "Biosynthetic Reactions in the Human Body," on December 3.

Senior Fellow **William Lowrance**, director of the University's Life Sciences and Public Policy Program, presented lectures on chemical risk management to the Exxon Medicine and Environmental Health Department, in East Millstone, New Jersey, October 25, and to the Public Interest Committee of the Board of Directors of the Dow Chemical Company, in Midland, Michigan, November 20. From November 5 to 7 he served as the conference moderator for a symposium on Toxic Substances and Public Health, hosted by E. I. du Pont de Nemours & Company, in Wilmington, Delaware.

Executive Vice President **Rodney W. Nichols** has been elected a board member of the New American Society for Macro-Engineering, dedicated to establishing public understanding of and professional standards for large projects throughout the world. The society holds its first symposium in March 1986 in Washington, D.C.

Professor **Abraham Pais**, Theoretical Physics, was one of five biographers invited to discuss their work on January 21 at the Murphy Center in New York. The evening was part of a series of literary programs presented by a group called Poets and Performers at the Mazur Theater. Dr. Pais' book, *Subtle is the Lord... The Science and the Life of Albert Einstein*, was published by Oxford University Press in 1982.

Honors and Awards

Professor **Christian de Duve**, Biochemical Cytology, received the Innovators of Biochemistry Award from the Medical College of Virginia's Department of Biochemistry on November 25. He also delivered a lecture, "Lysosomes and Medicine."

Professor **Fritz Lipmann**, Biosynthesis, has received a 1986 Senior U.S. Scientist Award (Humboldt Award) from the Alexander von Humboldt-Stiftung of West Germany in recognition of his "accomplishments in research and teaching."

President Emeritus **Frederick Seitz** received an honorary doctor of science degree from the University of Pennsylvania at a special convocation held on December 16 in commemoration of the 25th anniversary of the Laboratory for Research on the Structure of Matter.



Dr. Dennis Stark, director of the Laboratory Animal Research Center and Dr. Elaine Tuomanen of the laboratory of microbiology, being interviewed by students of Columbia University's Graduate School of Journalism science writing program.

News and Notes is published five times a year from October through July. This is Volume 17, Number 3. Suggestions for articles are welcome and may be sent to *News and Notes*, Box 194, phone extension 8968 or 8970. Photographs, page 1, right top and page 3, left, George Byron; page 1, left, page 2, left and center, page 3, left, and page 4, left bottom, Ingebet Grüttnert; page 2, right and page 5, Mary Wagner; page 3, right, Ronald Weickart; page 4, left top and right, Carmen Schmidt. © 1986 The Rockefeller University, New York 10021-6399. Printed in the United States of America.