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Princeton administrator named to top post at Rockefeller

President Torsten Wiesel today announced the appointment of Ingrid W. Reed as vice president for public affairs and corporate secretary of the university.

Reed, who will be the first woman to serve at the rank of vice president at The Rockefeller University, has a long career in matters of external relations and administration at Princeton University, and a record of achievement in a wide range of public service appointments. On May 1, she will assume leadership of two key areas of the university's administration:

- *Board of trustees and faculty governance.* Reed will be responsible for coordinating all of the activities of the board of trustees and its committees, and provide a key link for the board with the affairs of the university. She will perform similar tasks for the faculty.

- *Public affairs.* Reed will assume leadership responsibility for communicating information about the university to its internal and external constituencies. She will supervise the departments of Public Affairs, Publications, Media Resource Service Center, and The Rockefeller University Press.

"I believe Ingrid Reed's appointment will be of great benefit to the university and to me in my new role," President Torsten Wiesel said. "She has agreed to take on wide-ranging responsibilities for administration and co-ordination of external relations and communications and critical internal matters of university governance, linking the president, the trustees, and the faculty.

"To these challenges, she brings extraordinary professional

credentials: more than 10 years of service as the senior administrative officer responsible for similar functions of communications and internal management at Princeton's Woodrow Wilson School of Public and International Affairs, and a splendid record of service and effectiveness in the arena of public affairs—at the national, state, and community levels. She will work closely and interchangeably with Vice President Bohen, with me and with the leaders of the board and faculty in clarifying and communicating the university's priorities and mobilizing our resources to achieve them."

Commented Executive Vice

See *Administrator*, page 2



Ingrid Reed, currently a senior administrative officer at Princeton University's Woodrow Wilson School of Public and International Affairs, has been appointed as vice president for public affairs and corporate secretary of The Rockefeller University.

RU receives major gift to support hormone research

The Hormone Research Foundation has given The Rockefeller University \$600,000 to endow a fund supporting hormone research, according to Maren Imhoff, director of the Development Office. The new C. H. Li Visiting Scholar Fund will bring investigators from Taiwan and The People's Republic of China to Rockefeller to conduct basic research on the chemistry and biology of pituitary hormones and their target organs. This gift was made in memory of Choh-hao Li, a world-renowned biochemist.

"Dr. Li's studies of the hormones of the pituitary, the body's master

gland, played a major role in breaking open the field of endocrinology," said neuroendocrinologist Bruce McEwen, professor and dean at Rockefeller. "We are honored to have received this Visiting Scholar Fund named for C.H. Li."

Born in China, Li received his undergraduate degree in chemistry from the University of Nanking. He then earned his doctorate degree in biochemistry from the University of California at Berkeley in 1938. He spent the next 50 years at the University of California; and was the director of the Hormone Research Laboratory from 1950

until his death in 1987. He received many national and international awards and degrees, including the Lasker Award, Guggenheim Fellowship, Nichols Medal, and Lewis Prize. His laboratory received major funding support from the University of California, National Institutes of Health, National Science Foundation, and individual private donors. Together with numerous international scientists and fellows, Li isolated, characterized, and synthesized all six hormones of the anterior pituitary gland. Other major areas of research included beta-endorphin, and insulin-growth factor I. His basic research in human growth hormone has had major practical impact in modern medicine.

The Hormone Research Foundation is a private non-profit organization, and made this grant in Li's name to perpetuate scientific interchange between U.S. scientists and their counterparts in the Far East. President Torsten Wiesel commented that "this magnificent gift will not only help to advance research in the exciting field of endocrinology, but will also promote communication with scientists in Taiwan and The People's Republic of China. It affirms our tradition as a center for research that fosters scientific interchange with colleagues and institutions around the world."

Colorful crocuses crown campus



Although spring has not yet officially arrived, the first flowers of the season have begun to bloom on campus.

2 Wiesel meets with State assemblyman

3 RU researchers get hooked on zebrafish

4 Parents, tots explore classroom together

Wiesel meets with assemblyman as part of 'good neighbor' policy

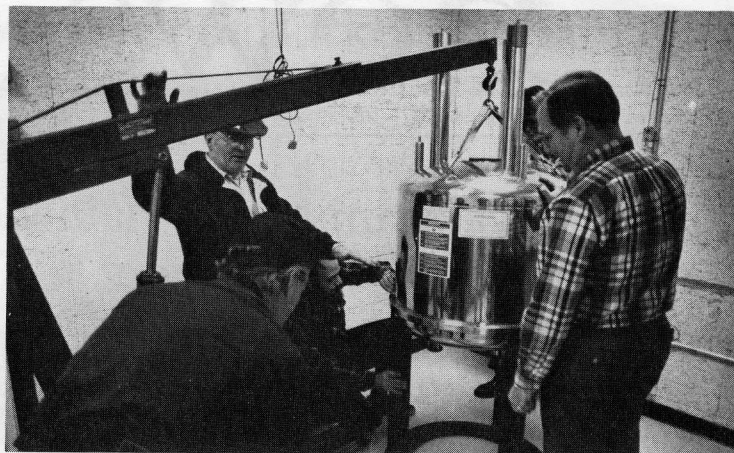
As part of his continuing effort to reach out to community leaders, President Torsten Wiesel met recently in his office with New York State Assemblyman for the 65th District, Alexander ("Pete") Grannis. Also at the meeting were Grannis's Community Liaison Craig Miller and Fred Bohlen, executive vice president and chief operating officer, Alfred Kildow, assistant to the president for university communications, and Doron Weber, manager of public affairs.

The meeting covered a wide range of issues, including the university's historic relationship with the community and the need to improve communication and understanding between both sides. The two leaders agreed to maintain contact and help one another on issues of common concern. Grannis and Wiesel also spoke about the disposal of low-level radioactive waste. Grannis, who praised The Rockefeller University for the withdrawal of its petition for new

guidelines from the Nuclear Regulatory Commission, said he realized the larger problem of how to dispose of low-level radioactive waste was still unsolved. He discussed a number of alternatives with Wiesel.

After the meeting Grannis declared: "I am very pleased with my meeting with President Wiesel. I found him to be very well informed and ready to listen, as well as forthcoming with his own views. It is a great help to us in the community to be able to sit and talk openly like this."

Wiesel had previously met with City Councilman Charles Millard and has several other meetings planned, including one with State Senator Roy Goodman in May. The series of small, informal meetings, part of Wiesel's "good neighbor" policy, aims to establish personal ties between Wiesel and community leaders so that they can work more closely together in helping to solve common problems.



A "user friendly" NMR spectrometer is moved from Tower to the physical biochemistry laboratory in Flexner Hall.

Spectrometer moves across campus

Movers transported one of Rockefeller University's nuclear magnetic resonance (NMR) spectrometers from the 16th Floor of Tower to the physical biochemistry laboratory in Flexner Hall last week. NMR spectroscopy uses magnetic fields and high-frequency radio waves to probe the atomic structure of molecules.

Frank DiGennaro, an engineer in the Cowburn lab, explained that while the university has four NMR spectrometers, the newly-relocated apparatus is particularly "user-friendly." To learn more about NMR services at Rockefeller, contact DiGennaro, x8273, or NMR Spectroscopist Francis Picart, x8269.

Administrator from Princeton appointed to senior position at Rockefeller

(continued from page 1)

President Frederick M. Bohlen: "I have known Ingrid Reed as a colleague in many worthy causes over the years. She is wise about universities and the special people who make them their place of work, and their primary community for personal involvement and commitment. She is a skilled administrator and communicator. She is a superb team player. I know she will make wonderful contributions to the well-being of this university."

"Reed also has had sensitive, policy-level experience in government and political affairs. Amongst other activities, she was appointed

by Republican Governor Tom Kean to New Jersey's Capital City Redevelopment Corporation, created by the state legislature to revitalize Trenton's downtown, and reappointed by Democratic Governor Jim Florio," Bohlen added.

"For my part," Reed said, "I am committing myself to Rockefeller University because I believe in its mission of public service through scientific inquiry, because I sense a remarkable dedication among its faculty and staff, but mainly because I believe in the president's ability to provide leadership at this critical time in the history of the university."

In her new positions, Reed

succeeds Marilyn T. Smith as corporate secretary, and Alfred Kildow, a consultant who has served as assistant to the president for university communications. Both Smith and Kildow were appointed by the Baltimore administration. They resigned in January but agreed to serve the Wiesel administration until successors could be found. Smith leaves April 1; Kildow will continue until June 30.

Reed currently holds the position of assistant dean and director of administration at Princeton's Woodrow Wilson School, with which she has been affiliated since 1975. For part of that time she was administrative director of Princeton's Rockefeller Public Service Awards, which recognize extraordinary achievements in public service and were funded by the late John D. Rockefeller, III.

Reed also has been very active in public service on issues ranging from the environment to equal opportunity. She served in the New Jersey department of environmental protection and was appointed as an original member of Princeton's standing committee on the status of women by its president.

A Phi Beta Kappa graduate of the University of Pennsylvania in economics, Reed is currently a member of numerous boards and committees at Princeton, in New Jersey, and in New York. She received a three-year Kellogg

National Leadership Fellowship in 1983 that enabled her to study the role of the private and nonprofit sectors in economic development in the United States and overseas in Argentina, Kenya, India, the Philippines, Indonesia, and Singapore.

Reed is married to Marvin R. Reed, a communications consultant who was elected Mayor of Princeton in November 1991. The Reeds have two grown children, David and Liza, who are both married and live in the Boston area.

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The Rockefeller University is an equal opportunity employer and has an affirmative action program to increase the employment of women and members of protected groups at all job levels.



Aspiring singers perform operatic arias



Soprano Anita Johnson performs at a concert to benefit the Metropolitan Opera National Council at The Rockefeller University Sunday. All singers at the concert were finalists in the Metropolitan Opera National Council Auditions in the eastern region.

Scientists get hooked on zebrafish—swimming research animals

by Susan Blum

At first glance the bright, airy room on the second floor of LARC, Rockefeller University's Laboratory Animal Research Center, looks more like a place to get away from research than to pursue it. Filled with the paraphernalia of the ichthyological enthusiast—fish tanks, fish food, fish nets, and, of course, fish—the space is a testament to the stress-management bromide that watching tropical fish cavort is the perfect way to relax.

But the newly-outfitted zebrafish facility is actually the incubator of a research endeavor that LARC director Michael Hayre predicts could prove as prolific as zebrafish themselves. "How big the facility gets depends entirely on what our researchers require," he said. "I see the potential for us to really take off and grow."

Indeed, the potential of zebrafish research is growing worldwide. The tiny, two-toned creature is the great striped hope of developmental biologists studying vertebrates—animals, such as ourselves, with a bony vertebral column and a skull protecting a sophisticated central nervous system, including a complex brain.

Until recently, mice and frogs have been among the animals most commonly used to study vertebrate development and to provide models for genetic, molecular biological, and physiological studies of vertebrates. But frogs and mice, though immensely useful, present certain research drawbacks. For instance, mice embryos grow inside the animal, so surgery is required to observe developmental processes

and to make transgenic mice—creatures that harbor foreign or manipulated genes inserted into early-stage embryos. Frogs lay their eggs outside the body, but they breed slowly, making genetic studies frustratingly slow.

Zebrafish provide advantages

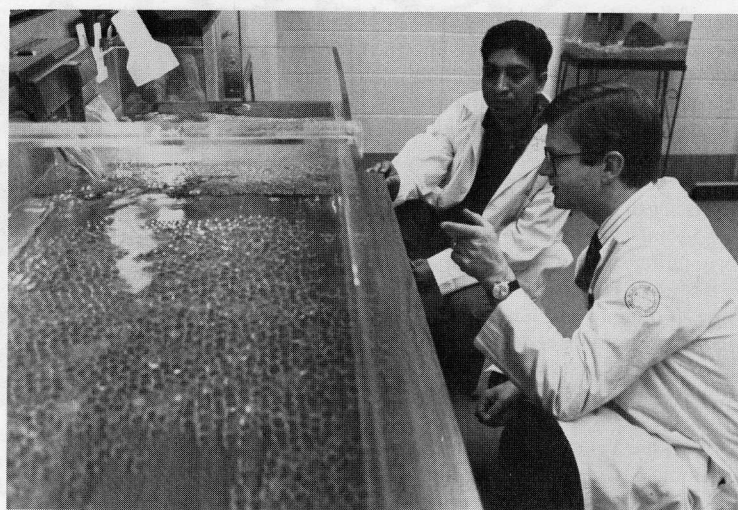
Thus, biologists have been eager to find a vertebrate that provides the embryologic and genetic advantages offered by the workhorses of invertebrate biology, fruit flies (*Drosophila*) and roundworms (*Caenorhabditis elegans*). Zebrafish seem to fit the bill.

Zebrafish lay their eggs outside the body and lay them prodigiously—300 to 600 per day, if conditions are right. The eggs are easy to manipulate and, once fertilized, grow as transparent embryos that allow researchers an unimpeded view of each stage of development. Another advantage of zebrafish is their short breeding cycle: it takes just three months for a new generation to be ready to spawn. There are still other pluses, Hayre says. "Zebrafish are cheap, easy to maintain, and very healthy. What's more, they're small." Just one tankful of two-inch zebrafish can accommodate as many research animals as a roomful of mice.

So far, two Rockefeller researchers are committed to using zebrafish in their research. One of them is Ishwar Singh, a postdoc in the Pfaff lab. Singh studies how hormones produced in the brain control reproduction. His research focuses on a hormone called luteinizing hormone-releasing hormone, or LHRH. LHRH regulates reproductive functions by prompting the release of hormones from the pituitary gland.

Pioneering work done in the Pfaff lab a few years ago showed that in the developing mouse, LHRH-producing neurons migrate into the forebrain from a region in the nose called the olfactory placode. This migration has proved to be characteristic of a wide range of developing vertebrates, including humans. In fact, researchers in the Pfaff lab have discovered that a human condition, known as Kallman syndrome, is due to the failure of LHRH neurons to migrate to the brain. The result: incomplete development of the testes and ovaries (as well as an inability to smell).

Singh has already been studying the migration of LHRH neurons in a larger fish, tilapia, and is now gearing up for additional studies in zebrafish. According to Singh, the fish brain is similar enough to the



Michael Hayre, director of the university's Laboratory Animal Research Center, (right) and Ishwar Singh, postdoc in the Pfaff lab, examine the newly-outfitted zebrafish facility.

brains of higher vertebrates that it provides an excellent model for developmental studies, yet is simple enough that it makes such studies feasible. Singh's zebrafish studies will help elucidate the factors involved in neuronal migration, and help pinpoint the developmental stage at which migration occurs.

Connectivity is explored

Singh said he also plans to use zebrafish to investigate the incredibly complicated process of neuron-to-neuron communication. "The mammalian brain is very complex. If we want to answer questions about connectivity, the fish brain is an easier place to start."

Another researcher using zebrafish is Stevan Dawis, an assistant professor in the Knight lab. Dawis's research aims to develop a mathematical model, based on biochemistry, of how receptor cells in the vertebrate retina transmit light signals and become adapted to them. To do so, Dawis needs to assess the state of various proteins involved in sending the signal.

Dawis has been studying the response to light in toads, but the amount of a pigment called melanin found in their retinas has proved to be problematic: it is so dense that it interferes with the infrared scanning that is part of his research program. Albino zebrafish, whose retinas lack melanin, will make his studies easier. Dawis also plans to create transgenic zebrafish in order to study how changes in another pigment, rhodopsin, affect signal transduction.

The two Rockefeller researchers have enjoyed Hayre's support and cooperation in getting their zebrafish research going. Hayre has been integrally involved, from overseeing LARC's financial

support of the the facility to more mundane matters, such as feeding the fish numerous times each day. "They're hungry pigs," Singh explained, mixing his zoological metaphors.

LARC forms service nucleus

As the facility grows, a lab technician will soon take over the day-to-day care and feeding duties, but Hayre's enthusiastic involvement will continue. "I want LARC to be a nucleus, a source, that provides investigators with the services they require," he says. He stresses that the new zebrafish facility is just one such "service nucleus." The new transgenic services laboratory, which will open later this year, is another. This laboratory will produce transgenic mice and other animals for labs that might not have the resources to develop full-scale transgenic operations on their own.

The zebrafish facility makes Rockefeller a member of a growing community of institutions in which zebrafish research is being pursued. So active has the field become that it now boasts its own e-mail bulletin board for late-breaking news, technical suggestions, and the like. There is also a newsletter, *The Zebrafish Science Monitor*, complete with a logo ("all the zebrafish news that's fit to print") and a gossip column ("Fish 'R Us").

Behind the good humor and fishy jokes lies the palpable excitement of researchers embarking on a new field of study, eager to share experimental know-how and recent research results. Rockefeller investigators interested in learning more about the potential of zebrafish research are welcome to call Hayre at x8535 or Singh at x8660.



The tiny, two-toned zebrafish is the great striped hope of developmental biologists studying vertebrates.

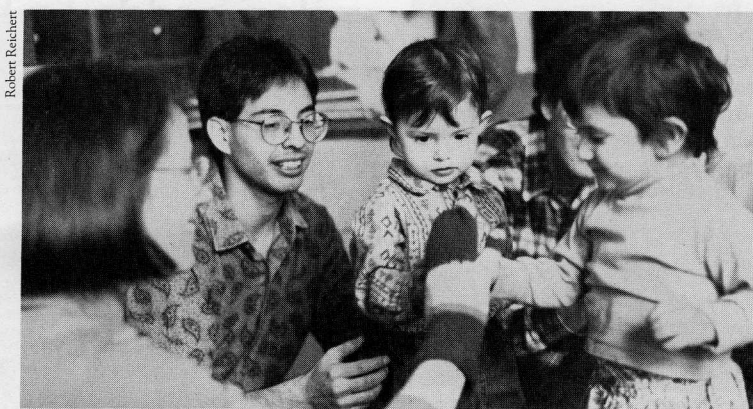
Parents and tots explore classroom together in Rockefeller program

Members of the university community can take advantage of advance registration for the 1992-93 school year of The Rockefeller University Children's School Parent/Child Program from now until April 15.

The Parent/Child Program, which began in 1985, offers parents with infants and toddlers an opportunity to share a first school experience. The children, six to thirty-two months old, learn to become more independent and grow accustomed to a classroom setting, while parents can discuss child-raising issues.

Typically, a class will start with 45 minutes of unstructured "activity time," where children can explore the classroom environment—including play dough, table toys, climbing equipment, and a housekeeping corner—with their parents and other children.

"By the end of the year, the children often play very indepen-



Ellen Ziman, coordinator of the Parent/Child Program, shows a puppet to Rockefeller postdoc David Holtzman, Rebecca Bostock-Holtzman, Jeffrey Field (back), and Natania Sehgal-Field (left to right).

dently, especially the two-year-olds," said Ellen Ziman, coordinator of the program. "Separation between parents and children occurs in a very natural way. If a child needs a parent to be there, that's O.K.; at the same time, the

children have the chance to build up their self-confidence."

The children's snack time leaves parents free to discuss parenting issues, such as sleeping patterns, diet, and discipline. The children are supervised by the

assistant teacher, Allyson Loesch.

"Usually, the parents choose what they want to talk about," Ziman said. "Occasionally I will propose a topic, but it is rare that one of the parents doesn't have something to suggest."

At the conclusion of class, parents and toddlers sit in a circle and sing songs. In addition, Debra Wanner teaches a movement class for the older children.

"The program offers a wonderful opportunity for parents to watch their children learn and interact with others," Ziman said, "and both parents and children make many new friends."

For further information about the Parent/Child Program, call x8580. Classes, held once a week for children six to twenty-three months old and once or twice a week for children twenty-four to thirty-two months old, will be held at 222 East 70th St. beginning next September.

RU cottages offer escape from city's hustle and bustle

By Olivia Gushin

The crocuses are starting to bud. Spring is on its way and summer can't be too far behind. And what does that mean? Long, hot weekends stuck in the city, running from one air-conditioned movie to another? Hours sweating in traffic on the way to the beach? For some members of the university community, it doesn't have to be that way.

The university owns two cottages, 53 miles from the campus, near Bear Mountain and West Point. The three-bedroom MacInnes cottage was left to the university by Professor Emeritus Duncan MacInnes in 1965. The two-bedroom Hostage cottage was

purchased by the university in 1978. The buildings have living rooms with fireplaces, kitchens (supplied with utensils), bathrooms, and porches. A lottery conducted by the Housing Office distributes the use of the cottages among interested members of the community.

Steve Cohen, assistant for research in the Chait lab, has enjoyed both cottages. He loves the setting at Hostage, where he stayed in the early spring. He says, "the flowers come right up to the porch... it is heaven." Cohen saw deer a foot away from the cottage. He also went hiking at Storm King Mountain (where there is also a sculpture park), which has an "incredible" view.

When Linda Gottschalk,

secretary in Maintenance, first started going to the cottages, the price was \$8.00 per night. Even at \$27.50 per day it's "a very nice deal," she says. Gottschalk has visited the Corning Glass factory and nearby Vanderbilt mansion. She also swims, barbecues, and rows a boat while staying at the cottages. According to Gottschalk, it's useful to have a car, but the 45-minute walk into town is enjoyable.

Those who want a chance to reserve one of the cottages should stop by the Housing Office, Abby Aldrich Rockefeller Hall 318, to fill out a request form. After the March 16 deadline, JoAnn Greene, coordinator of housing, randomly picks about 110 applications. The most desirable times, such as long



MacInnes cottage

weekends, get filled first. The odds of being selected are better, Greene notes, for those requesting five-day stays.

Potpourri

Birth

Cliff Wasser, assistant director in the Development Office, and his wife, Eva-Michaele, are parents. Their daughter, Elianna Sarah was born on March 6 at 8:30 A.M.

Sunday Film

In *The Big Sleep* (1946, Howard Hawks), Humphrey Bogart plays Philip Marlowe, Raymond Chandler's private detective who is hired to investigate the gambling debts of the younger daughter of a wealthy retired general. His investigations draw him into a world of deceit, blackmail, and violence. Lauren Bacall plays the general's older daughter. The film

will be shown in Caspary Auditorium at 7:30 P.M., Sun., March 15. Admission is free. All are welcome.

Open Enrollment

Anyone wishing to change their health insurance plan has until March 20 to do so. Changes will become effective April 1. For further information, call Ginny Hansen, x8299.

Award

Rockefeller alumnus Barry R. Bloom ('63), investigator of the Howard Hughes Medical Institute and Weinstock Professor of Microbiology and Immunology at the Albert Einstein College of

Medicine, was recently awarded the first annual Bristol-Myers Squibb Award for Distinguished Achievement in Infectious Disease Research.

Computer course

The Electronics Laboratory is offering a course in computer-based instrumentation, experimental control, and data acquisition and analysis. The course, "Computers in the Laboratory, Instrumentation and Application," will consist of lectures, student exercises, and examples from chromatography, spectroscopy, and other instruments used in biomedical research. An organizational meeting for the

course will be held at 11:00 A.M. today (March 13) in Tower 301. Questions or comments can be addressed to Gordon Silverman, x8611 or Box 297.

"ROCKEFOLLIES"

Time is running out to sign up to perform or volunteer for the "ROCKEFOLLIES." Interested individuals should contact David Heath, x8441 or Box 262.

Reminder

While springtime offers the opportunity to enjoy time outdoors, Plant Operations reminds the RU community that access to most rooftops on campus is restricted.