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SCIENCE FOR THE BENEFIT OF HUMANITY

BENCHMARKS

THE COMMUNITY NEWSLETTER OF THE ROCKEFELLER UNIVERSITY

FRIDAY, OCTOBER 5, 2007

ANNOUNCEMENTS

Music room has new piano. Minor renovations made to the music room over the summer include the purchase of a new Kawai K6 upright piano, which replaces the damaged Steinway model previously available there. A Damp-Chaser climate-control system has also been installed. The music room is accessible with a specially coded Rockefeller ID card, and the room can be reserved at www.rockefeller.edu/calendar. For more information, contact Kacey Koeppe, 212-327-8971 or koeppek@rockefeller.edu.

2007 golf outing raises \$3,000. The 5th annual event, on September 5 at Split Rock Golf Course in the Bronx, raised a record amount of money for the Child and Family Center. Winners of the men's tournament were: Alex Kogan, associate vice president for physical facilities and housing, in third place; Joe O'Connor, of Turner Construction, in second place; and Aquiles Sosa, custodial assistant supervisor, in first place. In the women's game, Aleksandra Mihailovic, research assistant in the Tuschl laboratory, won second place; Amy Wilkerson, associate vice president of research support, placed first. Money raised will go toward CFC supplies and playground equipment.

Fall Insight Lectures begin. This year's Insight Lectures — which feature talks on science, policy and the humanities — began October 2. The fall lineup includes:

October 2
What We Can Learn from Exploring the Computational Universe. Stephen Wolfram, chief executive officer, Wolfram Research

October 22
The Sociology and Science of Drug Discovery. Peter N. Goodfellow, former senior vice president of discovery research, GlaxoSmithKline

November 6
Sciences of Human Enhancement. Philip Campbell, editor in chief, *Nature*


Announcements may be submitted at www.rockefeller.edu/benchmarks.

BENCHMARKS

Paul Nurse, President
Jane Rendall, Corporate Secretary
Joe Bonner, Director of Communications

Zach Veilleux, Executive Editor
Talley Henning Brown, Assistant Editor

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FINANCE

'08 budget devotes record \$183 million to research

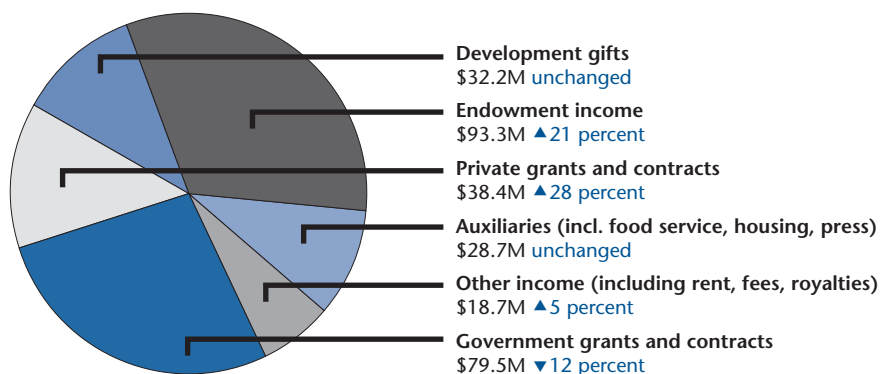
by ZACH VEILLEUX

Rockefeller's operating budget this fiscal year has increased by 4.7 percent over last year but remains balanced, anticipating a modest surplus of \$400,000 by the time the books close in June 2008. "Despite the projected loss of some federal grant revenue this year, the budget remains stable due to an increase in private grant awards and increased endowment spending," says James Lapple, vice president for finance. "The university has also been able to increase its hard dollar support to the laboratories in excess of \$4.5 million over the previous year."

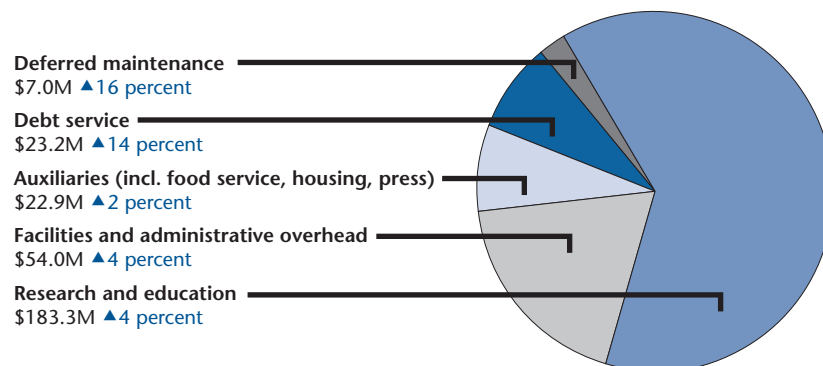
The biggest decrease in this year's revenues is in the government grants category, which reflects both budget tightening at the National Institutes of Health and the planned departure of faculty members who had NIH grants. Grants from private sources, however, including funding from foundations, increased by 28 percent from the preceding year's budget, making up much of the difference. "This is largely due to faculty seeking other sources of funding at a time when NIH money has become less reliable," Mr. Lapple says. "They have been exceedingly competitive in this area."

While development gifts toward the operating budget have been steady, money from the endowment has risen as a result of a policy change that allows the university to spend a greater share of the endowment's proceeds. Approved last winter by the university's board, the increased spend rate allows the university to devote more of the endowment's growth to current needs while still maintaining "intergenerational equity" that keeps the university well positioned over the long term. The spend rate increased to 5.5 percent of an average market value in

2008 revenues: \$290.8M ▲4.7 percent from FY2007 budget



2008 expenditures: \$290.4M ▲4.7 percent from FY2007 budget



fiscal year 2008 and will increase twice more, to 5.75 percent in FY09 and to 6.0 percent in FY10.

Other sources of revenue, which include the university's auxiliary services (such as food service, housing and The Rockefeller University Press, all of which more or less break even), royalties, leases, parking permits and interest on working capital, are predicted to be consistent. External rent revenue will decrease slightly as some outside labs had to vacate Smith

Hall because of construction.

On the expenditures side, the university has grown by 4.7 percent overall, an amount similar to that of previous years.

Spending on research is projected to increase by 4.0 percent, reflecting increased investment in the labs and resource centers. And debt service will rise by 14 percent this year because of \$100 million the university will borrow for construction of the Collaborative

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CAMPUS NEWS

FROM PAUL NURSE

Faculty recruitment update

As we begin our next academic year I thought it would be useful to update the university community about where we are with our ongoing efforts to recruit new faculty. As you know, for the last two years we have used an open recruitment process, in which all candidates are evaluated by a single committee of faculty. In its first year, this system led to the appointment of two tenure-track faculty members, Sean Brady and Howard Hang. Both of these excellent scientists have now established active laboratories in the third floor of the Rockefeller Research Building.

The second cycle was run this past year by Cori Bargmann. Cori

continued on page 2

Hospital to grant master's degrees

The Center for Clinical and Translational Science begins degree program in clinical and translational research

by TALLEY HENNING BROWN

In 2010, The Rockefeller University will include more than Ph.D.s among its alumni. As part of the plan established when Rockefeller received its first Clinical and Translational Science Award (CTSA) from the National Institutes of Health, The Rockefeller University Hospital's Clinical Scholars Program now serves as a vehicle for a three-year degree-track program in clinical and translational research. The endpoint: Rockefeller's first master's degrees.

Led by hospital physician in chief Barry Collier, medical director James Krueger and associate professor of clinical investigation Sarah Schlesinger, eight postgraduate students are currently enrolled in the program. One of only 12 institutions nationwide

to win a prestigious CTSA last year, Rockefeller University established the master's program in accordance with the award's provisions. Drs. Collier, Krueger and Schlesinger — all leaders in the Center for Clinical and Translational Science (CCTS) created by the award — in collaboration with the Dean's Office, drafted the application to the New York State Board of Regents for authority to award the degree. After an initial third-party review required by the state, the application was successful, and the CCTS enrolled its first master's candidates in January.

The new program is designed to prepare scientists with previous doctoral degrees for careers in patient-oriented research.

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Patricia Rosenwald and Peter Grauer join Board of Trustees

by TALLEY HENNING BROWN

Patricia P. Rosenwald and Peter T. Grauer, familiar faces in New York philanthropy and business circles respectively, are the two newest faces of The Rockefeller University. Mrs. Rosenwald, alumna and former longtime trustee of Vassar College, was elected to the Rockefeller Board of Trustees in March. Mr. Grauer, chairman and president of Bloomberg LP, joined the Board in June.

Patricia Rosenwald has experience in various fields, including child psychology, which she pursued at Vassar College in the 1950s when the field was in its infancy, and publishing — she cofounded the book publisher City and Company in 1987. But it is as a philanthropist and fundraiser that she found her real career.



New on the Board. Patricia Rosenwald, left, and Peter Grauer.

also been a trustee of the United Jewish Appeal; an advisory board member of the Breast Cancer Research Foundation; a founding vice chairman of the Committee for 100, created to formally recognize the 100th anniversary of the consolidation of New York City; chairman of the National Abortion and Reproductive Rights Action League; and chairman of the Big Apple Circus. “My first board meeting was in a trailer, with elephants in attendance,” she says. Her time as a member of the New York City Mental Health Commission, from 1989 to 1997, was “a very important part of how I became interested in Rockefeller,” she says.

Mrs. Rosenwald was first introduced to Rockefeller University when a mutual friend brought her interest in neuroscience to the attention of Nobel laureate and then-Rockefeller professor Gerald Edelman. “I’ve always been interested in the brain; I’m actually quite knowledgeable for a lay person, and speaking with

Gerry was exhilarating,” she says. She has enjoyed long friendships with several current Rockefeller trustees and has attended numerous lectures and university fundraising events. She was nominated to the Board last year and was officially elected during the March 14 Board meeting.

Her vast experience in fundraising is one strength Mrs. Rosenwald brings to the Rockefeller board. “I’m a networking person, and that is much better done in a smaller place like Rockefeller where people can make real, lasting connections,” she says. She also plans to be closely involved in upgrades to Rockefeller’s infrastructure, including the new Collaborative Research Center. “Collaborative science is so much more important now that globalization is changing the way things get done, and Rockefeller is one of few highly successful models of collaboration,” she says.

Peter Grauer is a graduate of the University of North Carolina, where he received a degree in English, and the Harvard University Graduate School of Business. An alumnus of the investment banks Donaldson, Lufkin and Jenrette and Credit Suisse First Boston, he cofounded DLJ Merchant Banking Partners and DLJ Investment Partners, which collectively manage over \$12 billion of private equity funds. He took over leadership of Bloomberg in 2002, having been on the company’s board of directors since 1996 and its chairman since 2001, succeeding company founder Michael R. Bloomberg. Mr. Grauer is also lead director of healthcare services company DaVita.

Mr. Grauer has served on the boards of over 25 public and private companies, including the Inner City Scholarship Fund in New York City, the Big Apple Circus, the University of North Carolina, Chapel Hill and the Irvington Institute for Immunological Research. His integral involvement with research concerns like the Irvington Institute and the Prostate Cancer Foundation — for which he has helped raise funds — have strengthened and further informed his interest in medical research.

Late last year, Russell Carson, chair of the Rockefeller board, who has known Mr. Grauer personally and professionally since the 1960s, urged him to become involved at the university. He was elected at the June 6 Board meeting. “Peter brings a knowledge and experience of the media industry that is absolutely essential to the university moving forward. We’re thrilled to have him on our side,” Mr. Carson says.

Mr. Grauer also brings a keen interest in the development of the Collaborative Research Center. His years in the Bloomberg offices — all of which are laid out open-plan style, with no enclosed offices and centrally located common areas — have confirmed for Mr. Grauer the effectiveness of an environment that fosters collaboration. “One should not underestimate the power of what can be achieved when you leverage that kind of human exchange and interaction,” he says. “The net result will be a more powerful way to do scientific research, and hopefully that will lead to some significant scientific discoveries that will really have an impact.”

Faculty recruitment (continued from page 1)

led a very effective search that led to the identification of two highly promising candidates at the assistant professor level. For personal and geographic reasons both of these candidates decided not to join us, but both emphasized that they had been enormously impressed by the university and the recruitment process. One said that she could not think of a more supportive and intellectually rich environment for junior faculty.

Two scientists at the associate professor level were also identified in the open recruitment process and discussions are under way now with these candidates. In a parallel search, clinical research candidates have visited the university, and follow-up visits are being arranged for the fall.

I am pleased to announce that Jeff Friedman has agreed to chair the faculty search committee for next year. I want to emphasize how grateful we all are to

those who chair this committee; recruiting new scientists is one of the most important tasks of the university and it is also a great deal of work.

Jeff will be experimenting with some modifications of the procedures used to date, which I hope will help the search process work even better. Though a single search committee, chaired by Jeff, will still evaluate a “shortlist” of finalists, the work of screening initial candidates and generating the shortlist will be carried out by eight subcommittees, searching in specific research areas that together cover all the interests of the university. The objective of this hub-and-spokes model is to encourage faculty and other members of the community to search for the best candidates in their particular research areas who will then be discussed in the more specialist subcommittees. The most qualified candidates will then be assessed by the full committee, to identify who

would be the best hires for the university as a whole.

We are introducing this year a second closing date for applications. In addition to the regular November deadline, there will be an April deadline. The goal here is to be constantly on the lookout for potential candidates, so we can explore promising applications at any time throughout the year. Although we still expect most applications to come in before November, this shift means that effectively the university will be conducting a continual search for potential recruits.

The emphasis for recruitment will continue to be on junior-level faculty looking to become assistant professors, but as before we will also search for associate professor-level and early-career tenured full professor-level candidates who are outstanding research workers. As in the last two years, all candidates will visit the university and give research

seminars, generally in the Monday Lecture Series. I very much encourage everyone to attend these lectures; not only do they expose us to new and exciting work going on elsewhere, but a large turnout at these lectures has an enormously positive effect on our candidates. Good attendance at these lectures in the past has greatly helped our recruitment efforts.

I want to end this column on recruitment by reminding you that as outlined in the strategic plan, the university will occasionally appoint visiting part-time professors. The administration has been talking over the summer to an established professor, identified by several of our physics and theoretically minded biology faculty, about coming here for a quarter-time appointment. If these discussions are successful, his appointment would begin this fall; I will tell you more about this in a future issue of *BenchMarks*.

’08 budget (continued from page 1)

Research Center. “Debt service levels will continue to rise over the coming years as we borrow additional money for the CRC but will be covered by other revenue sources within the university’s budget,” Mr. Lapple says. About half of the money for the CRC is coming from bonds, the interest on which is exceptionally low at present; the remaining half is covered by private donations raised under the university’s \$500 million Campaign for Collaborative Science.

Spending on administrative overhead is stable, up about four percent over last year, the result of economic inflation and modest salary increases. Other categories of spending, including facility operations, auxiliaries and deferred main-

tenance, are also stable in this year’s projections.

“Overall, our finances are in good shape and we have not seen a return to the difficult position we were in a few years ago when our financial commitments began to overtake our ability to pay for them,” says Paul Nurse, the university’s president. “This is due to our keeping administrative costs down as well as to our faculty’s success in tapping new sources of revenue from government and private grants. Because our budget is stable, we can afford to invest more in our labs and in our infrastructure, and to embark on an important building project without endangering our current enterprise.”

Master’s degrees (continued from page 1)

Students participate in a core curriculum called Topics in Clinical Investigation, taught by Drs. Collier and Schlesinger. Tutorials cover such topics as clinical research ethics, technology transfer, clinical trial design, protection of human subjects, grant preparation, scientific writing and presentations, conflict of interest, data management and legal aspects of human investigation. Other components of the program include a course in the molecular pathology of disease, preparation and submission of research grants, a student-selected course in the graduate school and a “humanities in medicine” offering. The core of the program is a clinical research project designed and carried out by the student and mentored by a senior faculty member.

“We provide them the support to help them submit a successful clinical protocol to the necessary regulatory authorities,” says Dr. Schlesinger.

The university is accredited to matriculate 15 master’s students at a time. As a prerequisite, an applicant must have completed an advanced degree in a clinical field: an M.D., DO or DDS, or a Ph.D. in psychology, epidemiology or nursing. Applications are vetted by Drs. Collier, Krueger and Schlesinger and Jan Breslow, who serves as one of the program’s many instructor-mentors. A clinical scholar usually holds an academic appointment of instructor of clinical investigation and a hospital appointment of assistant physician.

Message in a bottleneck

Software bugs revealed during upgrades this summer caused unusual interruptions in e-mail service

by TALLEY HENNING BROWN

The two Sun Microsystem servers that process and deliver the university’s e-mail look and perform a lot like any other desk-top computer: a plastic box, a few fans, a processor, some memory. But they have an enormous workload: Together they handle over 400,000 new e-mail messages every day and store about 500 gigabytes of e-mail. The numbers are average for an operation this size, but they are 25 times higher than the figures from just six years ago.

For those six years, the system handled the steep increase nearly flawlessly. With routine software and hardware upgrades, these two boxes have been running more or less nonstop since 2001. When one needed to be taken offline for maintenance, the other automatically absorbed its workload. An additional backup in the university’s disaster recovery site provided another layer of redundancy.

Then, this summer, the streak came to an end.

The series of campus-wide interruptions in e-mail service, which started June 17, began during a scheduled overhaul, when Information Technology personnel replaced those servers and upgraded two software applications that make up the systems that receive, store and deliver Rockefeller’s e-mail. Despite extensive predeployment testing, bugs in the updated software caused first severe slowdowns in system response time and later intermittent full system freezes.

What followed was an intensive investigation by IT, as well as the vendors that provide the software, to pinpoint and patch the flawed code. The work took several weeks, but the system has been running without any unscheduled interruptions since August 16. “I am highly confident that the software is now back to the point where it is every bit as stable as it has been in the past, and in addition the hardware will have the capacity to allow for inevitable growth in our e-mail communications,” says Associate Vice President for IT Gerald Latter.

Rockefeller University had a record of remarkably few service outages before this summer. A steady rise in e-mail volume each year, however, necessitated upgrades to hardware with more horsepower and software that can parse higher loads. Though the number of Rockefeller e-mail accounts has increased only 33 percent over the last six years — from 1,800 users in 2001 to 2,400 now — the amount of spam received now accounts for about 70 percent of weekday incoming e-mails. Two years ago, that figure was only 30 percent. In 2001, it was zero.

Rockefeller’s e-mail system is run on three components: Solaris computers from Sun Microsystems, Veritas storage management software from Symantec and Sendmail, an e-mail management system. All three companies have above-average track records with reliability, and following preinstallation testing, consultants from the companies predicted a smooth transition. “Predeployment testing is slightly less effectual than it might sound, however, because the testing environment cannot efficiently simulate actual maximum-load situations,” says Armand Gazes, director of IT operations and network security. “Upgrades add a higher level of complexity to the system, and with that comes not only greater power but greater chance for problems.”

With each stage of the upgrade, a new bug appeared; bugs from each software upgrade interacted with one other, magnifying their individual effects and creating an avalanche of glitches.

The first service slowdowns — which for many users caused delays long enough to effectively prevent the delivery of e-mail — occurred during the first stage of the overhaul when the Veritas upgrade was applied to the new Solaris computers, with the old Sendmail application still in place. Using process of elimination to locate the problem, IT went back to the old hardware (with the new Veritas software). That didn’t work, and neither did a subsequent software patch from Veritas, but Sendmail’s consultants were confident that it would disappear with the completion of the Sendmail upgrade, the last step in the overhaul.

But when the upgrade was finished — on the new hardware, with all new software — the situation instead worsened, causing the system to occasionally freeze entirely. All three vendors then began to investigate more closely, comparing snapshots of data collected from each of their systems over the same time periods to see how the systems were interacting. “That kind of analysis is extraordinarily complex, as the number of factors to be cross-checked is simply enormous,” says Mr. Gazes. The problem eluded them for weeks, during which time IT staff was working at full capacity, even leveraging personnel who were on vacation to monitor the system remotely and help fix outages as they happened to ensure downtime was kept to a minimum.

Then, on July 18, Rockefeller’s antispam program, Cloudmark, had a bug that triggered Sendmail to mark a portion of the e-mail coming in from outside the university as spam. IT fielded damage control and was able to recover the names and time stamps of lost e-mails for everyone whose e-mail clients were set to automatically delete spam. “That problem is a rare one, and added insult to injury, but it does illustrate why we suggest that people quarantine their spam instead of having it automatically deleted,” says Mr. Latter. The problem turned out to be unrelated, but it added an additional layer of confusion for many users.

By the end of July, things began looking up. Sendmail and Veritas both discovered additional bugs in their software and worked to provide patches to address them. The patches worked, and the final repairs were completed in the early morning hours of August 16. There has been no unplanned downtime since.

“Unfortunately, you never know exactly how new software will interact with the full production environment you’ve got until you put it all together and run under load. We experienced an unusual amount of bad luck during the course of what should have been a routine upgrade, but encountering bugs is itself not unusual, and the vendors were all very diligent in working to resolve them,” says Mr. Latter. “We’ve also gained some valuable lessons that will enable us to stress-test the system before future upgrades.”

Over the next several months, IT will proceed with existing plans to evaluate and test additional enhancements to help ensure the university’s e-mail systems remain stable. Under consideration: a migration to an open-source Linux operating system running on Intel-powered computers. “These weren’t products we would have felt entirely comfortable with earlier this year, but now, it looks very promising,” says Mr. Gazes. “This combination offers several advantages in terms of future upgradeability and improved support conditions, because we’ll be leveraging hardware and software that are both standard and cutting edge.”

Friday lectures under way

This year’s program, which began September 7, brings 30 speakers from some of the world’s top universities and institutions to Rockefeller for the university’s weekly lecture series.

October 5	Allan C. Spradling director, department of embryology, Carnegie Institution of Washington <i>William H. Stein Memorial Lecture</i>
October 12	Blaise Aguera y Arcas architect, Microsoft Live Labs
October 19	Michael Snyder chair of molecular, cellular and developmental biology, Yale University <i>Postdoc Invited Lecture</i>
October 26	Timothy A. Ryan professor of biochemistry, Weill Medical College of Cornell University <i>M.D.-Ph.D. Recruitment Lecture</i>
November 2	Jennifer Lippincott-Schwartz principal investigator, cell biology and metabolism branch, National Institute of Child Health and Human Development, National Institutes of Health
November 9	Consuelo de Moraes associate professor of entomology, Pennsylvania State University
November 16	Nathaniel Heintz James and Marilyn Simons Professor and head, Laboratory of Molecular Biology, The Rockefeller University <i>M.D.-Ph.D. Recruitment Lecture</i>
November 30	Ronald Breaker associate professor of molecular, cellular and developmental biology, Yale University
December 7	Catherine Dulac Higgins Professor of Molecular and Cellular Biology, Harvard University
December 14	Jennifer A. Doudna professor of biochemistry and molecular biology, University of California, Berkeley
January 4	James Ferrell professor of biochemistry and chair, chemical and systems biology, Stanford University <i>Jerry A. Weisbach Memorial Lecture</i>
January 11	Andrew Murray professor of molecular and cellular biology, Harvard University <i>Philip Levine Memorial Lecture</i>
January 18	Kevan Shokat professor and vice chairman of cellular and molecular pharmacology, University of California, San Francisco; assistant professor of chemistry, UC Berkeley
January 25	Elliot M. Meyerowitz professor and chair, biology division, California Institute of Technology
February 1	David Kingsley professor of developmental biology, Stanford University <i>Richard M. Furlaud Distinguished Lecture</i>
February 8	L. David Mech adjunct professor of fisheries, wildlife and conservation biology, University of Minnesota; senior scientist, biological resources, U.S. Geological Survey
February 15	Frederick Alt professor of genetics and pediatrics and scientific director, CBR Institute for Biomedical Research, Harvard University <i>Ernst A.H. Friedheim Memorial Lecture</i>
February 22	Roger Kornberg professor, department of structural biology, Stanford University <i>Joshua A. Lederberg Distinguished Lecture</i>
February 29	Eric Gouaux principal investigator, Vollum Institute, Oregon Health and Science University
March 7	C. David Allis Joy and Jack Fishman Professor and head, Laboratory of Chromatin Biology and Epigenetics, The Rockefeller University <i>Ph.D. Recruitment Lecture</i>
March 14	Stanislas Leibler Gladys T. Perkin Professor and head, Laboratory of Living Matter, The Rockefeller University <i>Ph.D. Recruitment Lecture</i>
March 21	Joseph Takahashi Walter and Mary Elizabeth Glass Professor, department of neurobiology and physiology, Northwestern University
March 28	Louis Ptacek John C. Coleman Distinguished Professor in Neurodegenerative Diseases, University of California, San Francisco
April 4	Wiley Prize in Biomedical Sciences
April 11	Patricia Kuhl professor, department of speech and hearing sciences and codirector, Institute for Learning and Brain Sciences, University of Washington <i>Maclyn McCarty Memorial Lecture</i>
April 18	Edvard and May-Britt Moser codirectors, Kavli Institute for System Neuroscience, Norwegian University of Science and Technology
April 25	Boris Shraiman professor of theoretical physics, University of California, Santa Barbara
May 2	Evolution Symposium
May 9	Stephen O’Rahilly professor and head, department of clinical biochemistry and medicine, University of Cambridge
May 16	Science Symposium in honor of Mary Jeanne Kreek
May 23	James Wells professor, departments of cellular and molecular pharmacology and pharmaceutical chemistry, University of California, San Francisco <i>Cancer Biology Lecture</i>
May 30	David Drubin head of cell and developmental biology, University of California, Berkeley
June 6	Gary Ruvkun professor of genetics, Harvard Medical School/Massachusetts General Hospital

MILESTONES

PROMOTIONS, AWARDS AND PERSONNEL NEWS

Awarded:

C. David Allis, the American Society for Biochemistry and Molecular Biology Merck Award, for contributions to the field of chromatin biology. The award will be presented at the Experimental Biology 2008 meeting in April in San Diego, California.

Nina V. Fedoroff (alumna), the 2006 National Medal of Science, for her work on plant molecular biology and for being the first to clone and characterize maize transposons. The award was presented by President George W. Bush at the White House on July 27.

Jeffrey M. Friedman, the 2007 Danone International Prize for Nutrition, for his research on the role of genetics and leptin in weight regulation. The award, which includes euro120,000 (about \$163,000), was presented at the European Nutrition Conference in Paris on July 11.

Tarun Kapoor and **Leslie B. Voshall**, finalists in the 2007 Blavatnik Award for Young Scientists, established by the New York Academy of Sciences to recognize those who have contributed to interdisciplinary research. Finalists each receive \$5,000 in unrestricted funds. Five winners will be chosen at the academy’s annual Science and the City Gala on November 12.

Banker and philanthropist **Howard P. Milstein** has, with his family, donated \$5.5 million to the university to create the Milstein Medical Research Program, to focus on improving understanding of the biology and progression of human melanoma. **James G. Krueger** heads the program’s research efforts.

Miklós Müller, the Order of Merit of Hungary, Officer’s Cross, from the Hungarian Republic. The award was officially announced on August 20, the Hungarian national holiday. Dr. Müller will accept it formally in Budapest in December.

Ralph M. Steinman, the Albert Lasker Award for Basic Medical Research, for the discovery of dendritic cells. The award, which includes \$150,000, was presented at a luncheon ceremony at the Pierre Hotel in New York City September 28.

Promotions (academic appointments):

Lynn Dustin, from research assistant professor to research associate professor, Rice Lab.

Taesun Eom, from postdoctoral associate to research associate, Robert Darnell Lab.

Geraldine Guasch, from postdoctoral associate to research associate, Fuchs Lab.

Andre Hoelz, from postdoctoral fellow to research associate, Blobel Lab.

Deepti Jain, from postdoctoral associate to research associate, Darst Lab.

Francine Katz, from postdoctoral associate to research associate, O’Donnell Lab.

Andreas Keller, from postdoctoral associate to research associate, Voshall Lab.

Benjamin Kwok, from postdoctoral fellow to research associate, Kapoor Lab.

Steve Lockless, from postdoctoral associate to research associate, Muir Lab.

Kevin McBride, from postdoctoral fellow to research associate, Nussenzweig Lab.

Nina Papavasiliou, to associate professor head of laboratory, Papavasiliou Lab.

Mirna Perez-Moreno, from postdoctoral associate to research associate, Fuchs Lab.

Joshua Rappoport, from postdoctoral fellow to research associate, Simon Lab.

Wendy Roberts, from postdoctoral associate to research associate, Robert Darnell Lab.

Jose Rodriguez, from postdoctoral associate to research associate, Steller Lab.

Pallavi Sachdev, from postdoctoral fellow to research associate, Sakmar Lab.

Promotions (staff appointments):

Huifen Feng, Heintz Laboratory, to transgenic core supervisor.

Bethany Francis, Archive Center, to assistant project archivist.

Yaw Kwaa, LARC, to LARC group leader.

Nicole LeBrasseur, The Rockefeller University Press, to Ph.D. news editor.

Martin Leidner, Information Technology, to project manager, chief information security officer.

Alexandra MacWade, The Rockefeller University Press, to production editor *JEM*.

Shane Murrell, Human Resources, to human resources associate.

Stephen Nelson, LARC, to LARC group leader.

Melissa Offenhartz, Hospital Nursing Administration, to director of nursing and patient care services.

Shauna O’Garro, The Rockefeller University Press, to assistant production editor.

Jennifer Peterson, Muir Laboratory, to laboratory administrator.

Clifton Phillips, Housing Scholars Residence, to doorman.

Maureen Pollina, Hospital Nursing Outpatient, to nurse manager.

Alexa Pomales, Child and Family Center, to head teacher.

Marisol Rodriguez, LARC, to LARC supervisor.

Michael Rossner, The Rockefeller University Press, to executive director.

Pete Taylor, LARC, to LARC group leader.

Brian Treanor, Security, to sergeant.

Martha Vasquez, Hospital Bionutrition, to metabolic cook.

Patricia Wills-Abrahams, Planning and Construction, to administrative manager.

Ekaterina Zafranskaia, Gene Targeting Resource Center, to research support specialist.

Hired:

Owen Albin, research assistant, Rice Lab.

Luz Alequin, bionutrition aide, Hospital Bionutrition.

Muayad Almahariq, research assistant, Heintz Lab.

Brandy Antonio, teacher, Child and Family Center.

Geoffrey Appelboom, postdoctoral associate, Greengard Lab.

Janice Ascano, postdoctoral associate, Roeder Lab.

Matthew Baron, research assistant, Greengard Lab.

Thania G. Benios, science writer, Communications and Public Affairs.

Debabrata Biswas, postdoctoral fellow, Roeder Lab.

Ellen Bradley, research assistant, Rice Lab.

Freddy Casado, porter, Housing Faculty House.

Sue Mei Cheah, research assistant, Greengard Lab.

Emily Chen, research assistant, Greengard Lab.

Ann Cheung, research assistant, Simon Lab.

Perna Chopra, research assistant, Robert Darnell Lab.

Michael Crickmore, postdoctoral fellow, Voshall Lab.

Erik Debler, postdoctoral fellow, Blobel Lab.

Stephanie Deroubaix, postdoctoral associate, Nussenzweig Lab.

Gregory M. Dillon, manuscript coordinator *JEM*, The Rockefeller University Press.

Theodore G. Drivas, research assistant, Blobel Lab.

John Earnheart, postdoctoral associate, Heintz Lab.

Narat Eungdamrong, postdoctoral associate, Krueger Lab.

Teresa Evering, instructor in clinical investigation, Ho Lab.

Stacy Fajardo, grants accountant, Finance Accounting Services.

Christopher Fiorese, research assistant, Steinman Lab.

Rachel Fleisher, research assistant, Kapoor Lab.

David Fooksman, visiting fellow, Nussenzweig Lab.

Jennifer Garrison, postdoctoral fellow, Bargmann Lab.



On the wing. Photos taken by Anne Nurse, wife of President Paul Nurse, show, clockwise from top left, eastern tiger swallowtail, monarch, cabbage white and black swallowtail butterflies in gardens at the President’s House. As part of campus-wide green initiatives, butterfly gardens were planted this spring in front of the President’s House and in the corner lot between the hospital and Gasser Hall. At least eight species of butterfly have been spotted on campus, including those above as well as red admirals, orange sulfurs, tortoiseshells and spicebush swallowtails.

Betsy Gauthier, research assistant, Heintz Lab.

Cherise Gittens, accountant, Finance Controllers Office.

Pierre Guermontprez, research associate, Nussenzweig Lab.

Markus Hafner, postdoctoral associate, Tuschl Lab.

Sara Hakim, research assistant, Tuschl Lab.

Darlene Heller, administrative assistant, Investments.

Alison Hill, research assistant, Voshall Lab.

Matthew Hamman Isakson, research assistant, Gilbert Lab.

Menachem Katz, postdoctoral associate, Shaham Lab.

Agnes Kim, research assistant, Leibowitz Lab.

Hee-Sook Kim, postdoctoral associate, George Cross Lab.

Jaehoon Kim, postdoctoral fellow, Roeder Lab.

Courtney Kluger, research assistant, Steinman Lab.

Zachary Knight, postdoctoral associate, Friedman Lab.

Hannah Knipple, research assistant, Kreek Lab.

Hyein Koh, research assistant, Steinman Lab.

Igor Kravets, instructor in clinical investigation, Kreek Lab.

Arnaud Lacoste, postdoctoral associate, Brivanlou Lab.

Lilly Lavner, research assistant, Konarska Lab.

Andrew Levine, research assistant, Fuchs Lab.

Peter Lewis, postdoctoral associate, Allis Lab.

Camille Lipari, teacher, Child and Family Center.

Kevin Lugo, electrical helper, Plant Operations Maintenance Shop.

Yang Luo, postdoctoral associate, Chait Lab.

Yaroslava A. (Jessa) Makeyeva, research assistant, Steinman Lab.

Abigail Maller, research assistant, Greengard Lab.

Bartholomew R. Mallio, information security analyst, Information Technology.

Vladimir Maynfeld, systems administration manager, Information Technology.

Katharine McCarthy, research assistant, McEwen Lab.

Laura McMullan, postdoctoral associate, Rice Lab.

Brady Messmer, research assistant, Münz Lab.

Erin Meyers, research assistant, Heintz Lab.

Aleksandra Mihailovic, research assistant, Tuschl Lab.

Ivonne Murillo, human resources assistant, Human Resources.

Patrick Nahirney, manager of electron microscopy, Bio-Imaging Resource Center.

Francisco Navarro Rivero, postdoctoral fellow, Nurse Lab.

Kristine Nograles, instructor in clinical investigation, Krueger Lab.

Daniel S. Oristian, research assistant, Fuchs Lab.

Ronal Palacios, porter, Housing Scholars Residence.

Evagelia Papadimas, research assistant,

Young Lab.

Swaroop Pendyala, instructor in clinical investigation, Breslow Lab.

Shoshana Peyser, clinical research coordinator, Hospital Program Direction.

Summer Pierre, administrative assistant, Kapoor Lab.

Katherine Pierson, research assistant, Krueger Lab.

Manish Ponda, instructor in clinical investigation, Breslow Lab.

Pavan Kumar Puvvula, postdoctoral associate, Tuschl Lab.

Jinrong Qu, research assistant, Gotschlich Lab.

Ashley Erin Ray, clinical research nurse, Hospital Nursing Outpatient.

Neil Renwick, instructor in clinical investigation, Tuschl Lab.

Marc Ribo Panosa, visiting associate professor, Muir Lab.

Erica V. Rodriguez, clinical research nurse, Hospital Nursing Outpatient.

Jenny Rolef, research assistant, Robert Darnell Lab.

Jason Rothauser, copy editor, The Rockefeller University Press.

Anna Rothschild, research assistant, Ravetch Lab.

Heather Michelle Rozjabek, research assistant, Rice Lab.

Tamer Basel Shabaneh, research assistant, Ravetch Lab.

Michelle Sherman, Dean’s Office assistant, Dean’s Office.

Rachel Shively, research assistant, Fischetti Lab.

Elizabeth Stone, research assistant, Robert Darnell Lab.

Alexandros Strikoudis, research assistant, Papavasiliou Lab.

Ann Tang, postdoctoral associate, Steller Lab.

Elizabeth Thompson, associate editor *JEM*, The Rockefeller University Press.

Suyan Tian, biostatistician, Hospital Biostatistics.

Donna Tscherne, postdoctoral associate, Rice Lab.

Dawn Tsushima, clinical research nurse, Hospital Nursing Outpatient.

Bryce Turner, research assistant, Greengard Lab.

Jack Varon, research assistant, Kreek Lab.

Bei Wang, postdoctoral associate, Steinman Lab.

Daryll Wilson, research assistant, Heintz Lab.

Robert Wysocki, research assistant, Friedman Lab.

Han-Guang Yan, research assistant, Heintz Lab.

Wei-Ming Yu, postdoctoral associate, Strickland Lab.

Yuanyuan Zhang, research assistant, Greengard Lab.

Yanjiao Zhou, postdoctoral associate, Papavasiliou Lab.

This publication lists new hires, retirements, awards and promotions. Staff promotions are listed yearly; academic promotions and appointments are listed monthly.