Week recognizes achievement, Teri Clemens named grand marshal

Homecoming '93

Week recognizes achievement, Teri Clemens named grand marshal

People who participate in Homecoming 1993 can help local flood victims by tossing paper airplanes into the air.

During a new Homecoming event called, Paper Airplane Toss, participants will buy chances to throw their paper airplanes across The Swamp in the South 40. Among other considerations, those who throw their light creations the farthest will win cash and other prizes. The toss will be held from 4 to 7 p.m. on Tuesday, Oct. 5. The cost is 50 cents to sling one plane and $1 to throw three.

The Homecoming Steering Committee will provide the paper to make the airplanes. Event proceeds will benefit local flood relief efforts. Campus radio station KWUR will provide music during the activity.

"The committee is proud to add the paper airplane toss to the long list of flood relief efforts occurring at Washington University," said Kristina Gobel, publicity co-chair for the committee. The committee also wanted to encourage campus-wide relief efforts occurring at Washington University, added Lynne Federko, the committee's special events chair.

Homecoming 1993, slated for Oct. 4-9, also will feature sumo wrestling and The Hurricane, a money machine game.

Among the highlights will be the Homecoming football game, which will be held at 7 p.m. Oct. 9 in Francis Field when the Bears battle Rhodes College of Memphis.

Other scheduled events include large-screen viewings of Monday Night Football and the literary launch: International Writers Center begins reading series, which features up-and-coming writers.

In This Issue...

Detecting heart attacks: School of Medicine researchers develop a new blood test that makes heart attack diagnosis easier

Opening new doors: David D. Chaplin, M.D., Ph.D., hopes to control diseases by identifying the genes that cause them

Literary launch: International Writers Center begins reading series, which features up-and-coming writers

Campus Police assign additional officers to patrol Hilltop following armed robbery

Shortly after 8 p.m. Saturday, Julian B. Fleischman, Ph.D., associate professor of molecular microbiology at the Washington University School of Medicine, was attacked by an assailant during a robbery on the Hilltop Campus near the northeast corner of the Mallinckrodt Center.

Fleischman received a first-aid kit to treat multiple stab wounds and is currently reported to be in stable condition following surgery Saturday night.

Washington University Police have assigned additional officers to patrol the Hilltop Campus. Two officers will patrol the center of campus — either on foot or by motor scooter — each evening.

In a statement released today, Chancellor William I. Danforth noted, "I am shocked and saddened by the stabbing. My heart goes out to Professor Fleischman."

The safety and well-being of students, faculty, staff and visitors to the campus is of highest priority. Fortunately, the campus is not immune from crime. The county police and our Campus Police are working diligently to apprehend the person responsible for this incident. Patrols on the campus have been increased. I urge everyone in the University community to be vigilant and careful," Danforth noted.

Identification of the attending hospital and additional details regarding the attack are being withheld at this time, pending an investigation by St. Louis County Police, which has jurisdiction in the case.
very, millions of Americans seek medical attention for symptoms that could point to a heart attack. Their symptoms can stem from a host of problems, from cardiovascular disease to indigestion. The physician’s challenge is to find the culprit quickly and accurately, if possible.

The methods physicians now use to distinguish heart attacks from other medical problems are generally quite reliable, but there are still situations in which diagnosis can be tricky. A new blood test developed at the School of Medicine may help doctors make more accurate decisions, especially in these hard-to-diagnose patients. Among those most likely to benefit are patients who seek treatment late, the investigators say.

The test measures blood levels of troponin I (a protein that regulates heart muscle cell contraction). It is known that abnormal levels of troponin I in the blood are a sensitive signal that heart damage has occurred. In this new study of 215 patients, the investigators concluded that elevated levels of troponin I, in addition to MB CK, proteins now used for diagnosis, are only present if heart damage has occurred. Their findings appear in the July issue of Circulation.

Only about two in 10 people suspected of having a heart attack are actually having one. For more than a decade, physicians have relied on a protein called muscle brain creatinine kinase (MB CK), to diagnose heart attacks. Like troponin I, MB CK leaks from dying heart cells into the bloodstream; rising blood levels are a signal of a heart attack. But that signal is not completely foolproof, says Allan S. Jaffe, M.D., professor of medicine and of pathology. "MB CK has been a good test, and it’s still very valuable, but it is not perfect," Jaffe says.

One limitation is that MB CK can be elevated by damage to skeletal muscle — in the absence of heart damage, Jaffe explains. Because of that, people with chronic muscle disease, chronic renal failure or muscle damage from extremely strenuous exercise can have elevated MB CK levels, even when their hearts are healthy. Other problem cases are car accident victims and some surgery patients.

It is possible to fail to detect cardiac injury because someone has had an automoblie accident or a fall, or because a test is negative at times that happens because physicians don’t know what to make of an elevated level of MB CK. It’s initially due to a heart attack, or is it simply due to the renal failure? These patients are hard to substantially served by the use of levels of troponin I, Jaffe explains. In their study, Jaffe and his colleagues looked at 215 people known to have el-

Street access limited during construction

Because of the medical school expansion, there will be a few access and parking changes for students.

Over the next two years, Scott Avenue between Euclid and Taylor avenues will be closed to through traffic. Pedestrian crosswalks will be provided on Scott Avenue near the entrance to the bridge from Olin Hall to the East Building. Handicap parking at the Occupational Therapy Building will be moved to a parking space from Euclid Avenue.

On Campus, a large part of the parking lots just east of the McDonnell Sciences Building will be closed. Employees must enter the building from outside, and use accessible parking lot at the north of Scott south of McKinley. Handicap spaces just south of Scott Hall will be moved to adjacent handicap spaces just north of Olin Hall.

Visitors to the medical school can enter the main entrance from McKinley Avenue, and carpool space will be provided to the parking lots that are south of McKinley. Handicap spaces just south of McKinley Hall will be moved to adjacent handicap spaces just north of Olin Hall and can be reached from the two visitors’ entrances. They are marked by signs that can be seen McKinley, and handicap spaces in the remaining parking lots will be moved to the east building to be moved to spaces in the Library Annex Building.

New blood test makes heart attack diagnosis easier

Using troponin I for late diagnosis could benefit a substantial number of patients, Jaffe says. "The reality is that only a small percentage of people come in very early after the onset of a heart attack. It’s unfortunate, but it’s the truth." Echocardiography does not always find heart damage; troponin I would be more sensitive, faster, cheaper and more accurate, he adds.

Patients fare better if they are diagnosed and treated within a few hours of the start of an attack, but late diagnosis is still important, Jaffe said. During these later stages, patients can benefit from many treatment options, and they are still at risk for additional complications. "Most mortality occurs in the early, acute stage. But there is nonetheless substantial mortality that occurs over the course of the first week. Heart attacks can extend, or heart failure can develop," he explains. Diagnosing or excluding a heart attack helps physicians decide on the best course of treatment.

"What we have done thus far is to show that troponin I is more specific for heart attack in the most overt cases — the patients that we expect to have elevated MB CK. We are now moving toward looking at patients where perhaps subtler abnormalities might be present," Jaffe says. The investigators are now looking at troponin I’s diagnostic value in trauma and post-operative patients, who often have minor elevations in MB CK that make the diagnosis of cardiac injury difficult, he says.

This study is the latest of a long line of Washington University contributions to this area of research. The practice of using MB CK for heart attack diagnosis began here in the early 1970s, when Burton Sobel, M.D., professor of medicine and director of the cardiology division, and Robert Roberts, M.D., now head of cardiology at Baylor University, recognized MB CK as a reliable marker. Since then, research here has made the test more clinically practical. Jaffe and his colleagues, including junior associate Jesse E. Adams, III, M.D., also are evaluating other blood markers to help physicians diagnose heart attacks and monitor certain heart attack treatments.

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Juli Leistner, Dave Moessner, Joni

Volunteers needed for diabetes studies

Researchers at the School of Medicine are seeking volunteers for several studies involving new treatments for diabetes.

New treatments are being tested in adults with non-insulin dependent diabetes who have difficulty controlling blood sugar levels with diet or oral medication, according to Janet McGill, M.D., M.N., assistant professor of medicine.

The recent Diabetes Control and Complications Trial (DCCT) pointed out that new, near-normal blood glucose control is the key to preventing the complications of diabetes such as eye, kidney, and nerve problems, says McGill. "Achieving tight glucose control is important for all patients — those using diet, those taking pills, and those on insulin.

Dietary counseling, free tests and medical exams will be included for volunteers who qualify for this study.

In another study, researchers are looking at the genetic defect that causes Type II diabetes. Large families with two or more diabetic members are needed for this large project, which is being funded by the National Institutes of Health. Men and women over the age of 55 are eligible for the study.

For more information or to volunteer for these studies, call the Washington University Diabetes and Hypertension Study Group at 362-8681.
Chaplin's lab is studying the inherited variability of the way the immune system responds by working to identify all the genes within the MHC. Previous studies have demonstrated that the MHC genes control whether an individual is likely to contract one of more than 200 different diseases. Some of these diseases, such as insulin-dependent diabetes, rheumatoid arthritis and lupus, appear to be caused by an underlying abnormality of the immune system. Other diseases linked to the MHC, such as narcolepsy and an iron metabolism disorder called hemochromatosis, are not related to obvious immune system defects.

"The underlying mechanisms for most of these diseases aren't understood," Chaplin says. "We think that many of these illnesses are caused by genes located in the MHC that have not been discovered yet. Ultimately, knowledge of all the genes will lead to an understanding of the causes of these diseases."

By the early 1990s, scientists had discovered 60 genes located in the MHC region. Collaborative efforts between Chaplin and Yale University colleagues recently have led to the identification of another 30 genes in the region. Chaplin expects an additional 20 to 80 genes will be found. But he predicts that it will take decades for researchers to determine the function of all the MHC genes.

Chaplin also is working to understand the role a signal molecule called interleukin-1 (IL-1) plays in helping the immune system's ability to recognize "foreign" tissue. It is thought to be one of the causes of the swelling and pain of rheumatoid arthritis, bursitis and tendonitis, and is thought to be one of the causes of the swelling and inflammation common to these conditions. Eventually, pharmacological companies may hope to make anti-inflammatory drugs that will block the production or action of IL-1. For those drugs to be successful, Chaplin believes that much more needs to be learned about the IL-1 molecule.

"What most of our researchers know about IL-1 comes from either measuring the production and action of the molecule in an artificial environment outside the human body or observing the action of synthetic IL-1 injected into experimental animals. For 10 years, we have studied IL-1's exact cellular and molecular interactions in a variety of inflammatory reactions. IL-1 acts to induce fever, to stimulate the migration of infected cells out of the bloodstream and into tissues, and to activate them to kill and digest microbes.

"Unlike other signaling molecules that are released from living cells, IL-1 is released from cells that produce it only when the cell is dying. Chaplin and his colleagues recently discovered that Chaplin suggests, "We view this as a subject with a lot of unknowns, but what we learn about IL-1 deficiency may give us insights into our role in human diseases.

Chaplin's accomplishments in the laboratory are admired by his School of Medicine colleagues and by researchers around the country. At the age of 32, Chaplin was selected to be a prestigious Howard Hughes Medical Research Fellow. The organization, with assets just shy of $7 billion, carefully selects scientists it believes have the potential to create a strain of mice that will be unable to produce normal offspring. By observing how the mice develop, researchers can determine how the lack of IL-1 affects the ability of the immune system to function.

"If it turns out IL-1 signals cell death, the molecules that control the maintenance of immune cells that are constantly turning over," Chaplin suggests. "We view this as a subject with a lot of unknowns, but what we learn about IL-1 deficiency may give us insights into our role in human diseases.

"I'm sure my father's work influenced my decision to go to medical school," Chaplin says. "I always knew that he received great satisfaction from his work."

"As a child, Chaplin had occasional opportunities to work in his father's laboratory and recalls helping to make reagents that were used in the blood bank to test the compatibility of blood from donors and recipients. Chaplin, 41, earned his bachelor's degree in biochemistry from Harvard University in 1973. He then returned to St. Louis and in 1980 received an M.D. and Ph.D. from the Medical Scientist Training Program in the School of Medicine.

Studying blood and medical school, scientists have made great strides in the field of immunology, with the pace of progress particularly rapid in the past decade. That's partly because physicians are faced with finding cures for new immunological challenges, such as the AIDS virus. Equally important have been the recent advances in biotechnology that now enable researchers to work more efficiently. "We know a lot more now than we did 10 years ago, or even five years ago," Chaplin says. "That answer as we get deeper into the door to more questions. To answer the new questions, we have to bring together individuals with additional skills, to create the new technology. Adapting new methods to answer scientific problems — that's what research is really all about."

One of immunology's groundbreaking findings was made in the 1940s when researchers studying tissue transplan- tation discovered that it was possible to prevent the rejection of transplanted tissue using a drug called a "shock,

Together, the genes are referred to as the major histocompatibility complex, or MHC for short. Tissue grafts between individuals are rejected — unless patients receive strong drugs that suppress the immune system's ability to recognize "foreign" tissue. While these findings generated considerable interest among researchers, it was not until another 20 years before researchers would learn that the MHC genes control how the body responds to all types of immune sys- tem antigens.

For example, immunologists know that people with cer- tain MHC types are more likely to survive and develop wa- ter eyes when exposed to ragweed pollen than individuals with other MHC types.

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**Films**

**Thursday, Sept. 30**
7:00 p.m. **Filmboard Classic Series.** "Little Caesars." Room 100 Brown Hall. Cost: $3. For 24-hour Filmboard hotline, call 935-3725.

**Friday, Oct. 1**
7:00 and 9:30 p.m. **Filmboard Feature Series.** "A Few Good Men." Also Oct. 2, same time and place. Both in Room 100 Brown Hall. Cost: $3.

Friday night will feature a double feature of the classic war films, "The Longest Day," with English subtitles, Room 219 Brown Hall; and "Chaplin." (Also Oct. 9, same times.) Room 100 Brown Hall. Cost: $3.

**Saturday, Oct. 2**
7:00 p.m. **Filmboard Feature Series.** "The Pawnshop" and "The Rink."

**Monday, Oct. 4**
3:00 p.m. **English colloquium.** Mary Robinson, English lecturer for "The Parade House," Room 201 Duncan Hall.

**Tuesday, Oct. 5**

**Wednesday, Oct. 6**
11:00 a.m. **Mammalian Cell Cycle: Cyclins, Kinases, and Cyclin Dependent Kinase Inhibitors.** John D. York, graduate student. Room 8841 McDonnell Medical Sciences Bldg.

**Thursday, Oct. 7**
1:00 p.m. **Biotechnology.** "Computational Fluid Dynamics at the Interface Between Cytotoxin Damage to the Respiratory Epithelium," Linda Nixon Heiss, graduate student. Room 775 McDonnell Medical Sciences Bldg.

**Friday, Oct. 8**
10:00 a.m. **Molecular microbiology and microbial pathogenesis thesis defense.** Carol A. McDonald, thesis adviser. Room 924 McDonnell Medical Sciences Bldg.

**Saturday, Oct. 9**
12:10 p.m. **Molecular microbiology seminar.** "Phages: A True Tool in the New Era of Human Genomics," David McIlroy, assoc. prof., of Biology. Room 775 McDonnell Medical Sciences Bldg.

**Lectures**

**Thursday, Sept. 30**
4:00 p.m. **Biotechnology.** "Tandem Binding in New Noyalities of GFP Repressor With DNA," Janna Stegmeir, postdoctoral research associate, University of Utah, Cour. Aud. Room 4565 McKinley Ave.

**Friday, Sept. 30**
4:15 a.m. **Molecular and cellular biology thesis defense.** "Glucagon: Disease from Endomembrane Flasks to Determinations of a New G-protein Coupled Receptor," Linda K. Kovarik, ass. prof., of Pediatrics and biochemistry, U. of Cincinnati College of Medicine and director, Division of Human Genetics, Cincinnati Children's Hospital Medical Center, Clapton Aud., 4950 Children's Place.

**Monday, Oct. 3**

**Tuesday, Oct. 4**
11:00 a.m. **Membrane Physiology and function of Innerretinal Photopigments Phosphatase," John D. York, graduate student. Room 8841 McDonnell Medical Sciences Bldg.

**Wednesday, Oct. 5**
11:00 a.m. **Physical Therapy.** "Longitudinal Study of Simian Immunodeficiency Viruses (SIV) in Primates After Vaginal Exposure to Simian Immuno-Deficiency Viruses," Jamie Phillips-Cornell, assoc. prof., Dept. of Physical Therapy. Room 149 McDonnell Medical Sciences Bldg. (Course: 3:30 p.m.)

**Thursday, Oct. 6**
1:00 p.m. **Molecular and cellular biology.** "A Brief History of Humanity," Glenn Creasy, Ed.D., prof., of Neurobiology and head, Dept. of Anatomy and Neurobiology. Room 924 McDonnell Medical Sciences Bldg.

**Friday, Oct. 7**
12:10 p.m. **Biological Physics.** "Death by Laughing," Rowena G. Matthews, Dept. of Biological Chemistry, Texas A&M University, College Station, Texas. Room 204 Cowdray. (Course: 3:30 p.m.)

**Saturday, Oct. 8**
11:00 a.m. **Chemistry.** "Mammalian Cell Cycle: Cyclins, Kinases, and Cyclin Dependent Kinase Inhibitors," Linda Nixon Heiss, graduate student. Room 775 McDonnell Medical Sciences Bldg.

**Sunday, Oct. 9**
10:30 a.m. **Brown Hall Lecture.** "Between Cochlear Fluids," Alec N. Salt, asst. prof., of Biology. Aud., St. Louis Children's Hospital. (Tea: 4 p.m., Room 200.)

**Monday, Oct. 10**
11:00 a.m. **Medical Chemistry.** "Cytotoxin Damage to the Respiratory Epithelium," Linda Nixon Heiss, graduate student. Room 775 McDonnell Medical Sciences Bldg.

**Tuesday, Oct. 11**
11:00 a.m. **Biotechnology.** "Computational Fluid Dynamics at the Interface Between Cytotoxin Damage to the Respiratory Epithelium," Linda Nixon Heiss, graduate student. Room 775 McDonnell Medical Sciences Bldg.

**Wednesday, Oct. 12**
**Homecoming 1993 schedule of events**

**Thursday, Sept. 30**
**Homecoming Court Election, 11 a.m.-1 p.m., Mullinick Center.**

**Friday, Oct. 1**
**Homecoming Court Election, 7-9 p.m., Nolan Center.**

**Saturday, Oct. 2**
**Homecoming Football Game, 7 p.m., Francis Field.**

**Monday, Oct. 4**
**Monday Night Football (Miami Dolphins vs. Washington Redskins), 8 p.m., Federico's Bar and Grill, 375 N. Big Bend Blvd.**

**Tuesday, Oct. 5**
**Olin Library.**

**Wednesday, Oct. 6**
**Pittsburgh Drop, 12:30 p.m., Bowles Plaza; Women's tennis vs. St. Louis University, 1 p.m., Father's Tennis Center; Women's soccer vs. Maryville U, 3 p.m., Francis Field.**

**Thursday, Oct. 7**
**Faculty Appreciation Reception, 11 a.m.-1 p.m., Lambert Lounge; Happy Hour, 4 p.m., Bowles Plaza; Rat Night II (gives away), 10 p.m.**

**Friday, Oct. 8**
**Football Tailgate Party, 10 a.m.-1 p.m., Bowles Plaza; Women's Quadrangular Volleyball Tournament, 3 p.m., Field House; Wacky Olympics, 4-5 p.m., law field; Floatbuilding, 5 p.m., Bowles Plaza; Basketball Game, 7 p.m., Bowles Plaza; Women's Quadrangular (more giveaways), 8 p.m., Bowles Plaza; Volleyball Game, 9 p.m., Bowles Plaza.

**Saturday, Oct. 9**
**Women's Quadrangular Volleyball Tournament, 9 a.m., Field House; Homecoming Parade, 1-3 p.m., beginning at Bowles Plaza; Women's basketball vs. Denison University, 7 p.m., by the Athletic Complex; Homecoming Football Game vs. Rhodes College, 7 p.m., Francis Field; Homecoming Dance, 9 p.m.-1 a.m., Bowles Plaza (rain location: Holmes Lounge, Ridgley Hall).**

**Homecoming court to be elected — from page 1**

The parade will begin at 1 p.m. Oct. 9 in the Brookings Hall parking lot at the corner of Millbrook and Skinker boulevards. The event will include Six Flags cartoon characters; Grand Marshall Terry Clemens riding on a horse and carriage, floatbuilding entries and two Mercedes-Benz convertibles carrying candidates for the Homecoming Court. For the first time, the Washington University Pep Band will perform in the parade, playing music aboard a double-decker bus. Events should be especially fun for everyone," said Julie Kovacic, the committee's floatbuilding co-chair.

From the Brookings Hall parking lot, the parade proceeds as follows: 11:30 a.m.-1 p.m. west on Skinker; west on Forsyth; north on Big Bend; east on Delmar; south on Skinker; and west to the lot.

This year, Dean Ray and spokesman, and the members of the 1993 committee and their responsibilities are: Phil Thompson, chair; Rob Halondon, co-editor; Rich Kappes, floatbuilding; Brett Adler, treasurer; Jeremy Speck, co-editor; Dan Scotch, floatbuilding, grand marshal; Brent Hamilton, head, floatbuilding; Bruce Burris, dance; and Natasha Dunham, homecoming committee. Filming of student activities is the committee adviser.

University spokesman, in addition to the committee, is the Office of Student Activities, Student Union and Congress of the South Forty.

For information, call Gobel at 367-4485.
Performances
Friday, Oct. 1
8 p.m. Performing Arts Department production. "Mad Forest." (Also Oct. 2, 8, 9 and 9, same time, and Oct. 3 at 7 p.m.) Drama Studio, Room 208 Mallinckrodt Hall. Cost: $15 for students, $20 for public.

Friday, Oct. 8


Saturday, Oct. 9
10 a.m. "Fall Classic" special event. Santana Juko performs "Shujin: The Darkness Calms Down in Space." (Also Oct. 9, same time.) Sanford Field Stadium. (Also Oct. 10) Edison Theatre. Cost: $30 for the general public; $25 for students, $20 for faculty and staff. For ticket info., call 935-6543.

Friday, Oct. 8

Tuesday, Oct. 5

Wednesday, Oct. 6
3:30-5 p.m. Join the American Cancer Society for Relay for Life at the East Campus Mall. For more info., call 935-6815.

Sunday, Oct. 3
2-4 p.m. Undergraduate Admission open house. "St. Louis Group Meeting." Group information session for prospective freshmen, led by Amy Yarborough, senior associate director for undergraduate admission. Strohminger Hall Aud. For info., call 935-5190.

Saturday, Oct. 2

Miscellany
Friday, Oct. 1

Tuesday, Oct. 5

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Saturday, Oct. 2

Women's Volleyball
Last Week: Jumiata 3 (15, 15, 15), Washington 1 (15, 12, 15, 14); Washington 3 (15, 13, 15); Case Western 0 (6, 8, 13); Washington 3 (15, 15, 15), Chicago 0 (9, 9, 8), Washington 3 (15, 15, 15), Washington 3 (15, 13, 15), Emory 0 (5, 3, 1), Washington 3 (15, 15, 15), New York U. 0 (5, 15, 13); Washington 3 (15, 15, 15), Carnegie-Mellon 0 (12, 20), Washington 3 (15, 15, 15), Rochester 0 (7, 10, 11)
This Week: No Activity
Current Record: 21-1
Washington University NCAA recording consecutive win streak is over. The Bears had reeled off 34 consecutive victories before losing to Washington also had a 34-match road string and a string of 77 consecutive wins at home with opponents stopped.

Men's Soccer
Last Week: Washington 6, Principia 1; Washington 2, DePauw 0 (2OT)
This Week: vs. Webster, 7:30 p.m. Tuesday, Sept. 28, Francis Field; at Rochester, 7:30 p.m. Tuesday, Oct. 1, Rochester, N.Y.; at Brandeis University, 1 p.m. (EDT) Sunday, Oct. 3, Waltham, Mass.
Current Record: 4-2-1
Five of Washington's six goals against Princeton College were scored by freshmen, with first-year players Justin Reed, Kansas City, Mo., and Scott Engfelt, Mesquite, W. Fall toppling two goals apiece. Against DePauw, freshman Ben A. McPherson scored both, whileagainst the Bears' first goal, junior Kevin Neveah Cocoaio, Cleveland, Ohio, kicked the goal at 2:2.
Flying Karamazov Brothers perform with "Juggler and Hyde" at 8 p.m. Oct. 13 and 14 in Edison Theatre.

The Karamazov Brothers invite audience members to band over objects heavier than an ounce, lighter than 10 pounds and no bigger than a fist. If the champ, Ivan, keeps the three items flying for the count of 10 then he gets a penny in the face. Real fans come meticulously prepared. Examples include a foot-long soggy burrito, an orange balloon filled with lime jello, and a meat cleaver.

"Any competent juggler can defy gravity. Only the Karamazovs can make you laugh no less than in awe."

Dixit determined that 49 of 126 predisposed patients from St. Louis and Corpus Christi were sensitive to EN. Using a technique called immunoblotting, Dixit found 17 patients' blood samples and found 44 proteins that bound the same as the Alternaria E (EgE), which tells an allergist whether a person is allergic to a certain substance. Of these 44 proteins, six came only from the spores, four only from mycelium and 34 were common to both spores and mycelium.

Commercial extracts are very poor in discerning patient sensitivity between spores and mycelium. Dixit opened his own mold mycelial mats grown in large laboratory vats, and thus constructed real molds expressing proteins. Thus, immunotherapy for mold sensitivity is a hit-and-miss proposition that has left both the researchers and the sufferers and suffering frustrated. But Dixit has shown that extracts can be produced that recognize both spores and mycelia, covering the whole range of allergenic proteins. The Food and Drug Administration now permits these extracts to be marketed, says Dixit, and thus contain predominately mycelial and mycelium. Most are based upon mold extracts can be made that include both mold spores and mycelia, determining their frequencies in the air and then apply that information to testing their patients, they should know what's found in a particular mold.

"Anu is going to have some of the very best available extracts that will serve as the baseline material for commercial extracts," says Dr. Tom Wimmerich of Rainier Research.

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Introducing new faculty members

The Record is running a series profiling new faculty on the Hilltop and Medical campus.

Kathleen Clark, J.D., assistant professor of law, comes to Washington University from the University of Southern Judici-
ary, where she served as counsel. Her research interest is legal ethics. Clark received her J.D. from the University of Califor-
language in 1984. She received a bachelor's degree in international studies from the University of California in 1984 and a doctorate in history from Columbia University in December 1992.

William L. Maxwell, Ph.D., associate professor of biology, comes to the University from Idaho State University, where he was assistant professor. Maxwell's research involves studying the phylogeny and biogeography of lizards. His research focuses on how species evolve in response to environmental changes. Maxwell received his undergraduate degree from the University of California, Berkeley, and his Ph.D. from the University of Chicago. He is currently working on a project to understand the evolution of lizard diversity in the American Southwest.

Robert W. Williams, Ph.D., assistant professor of chemistry, comes to the University from the Massachusetts Institute of Technology, where he was a research fellow. Williams' research focuses on developing new methods for analyzing complex biological samples. His work has applications in areas such as cancer research and drug discovery. Williams received his undergraduate degree from Harvard University and his Ph.D. from the University of California, Berkeley.

For The Record

The Record contains news about a wide variety of faculty, staff and student professionals and activities.

Of note

Allison Goate, Ph.D., associate professor of molecular biology, is a leader in the field of genetic mapping. Goate's research focuses on understanding the genetic basis of human diseases, particularly those caused by single-gene mutations. She received her Ph.D. from the University of California, San Diego, and her postdoctoral training at the University of California, Los Angeles.

Maxine I. Lipman, J.D., professor of business law, specializes in intellectual property law. She has served as an advisor to several major corporations on copyright and trademark issues. Lipman received her J.D. from the University of California, Berkeley, and her Ph.D. from the University of California, Los Angeles.

Elizabeth P. Tsunoda, Ph.D., assistant professor of history, focuses her research on modern Japan. Her work explores the social and cultural transformations occurring in Japan during the late 19th and early 20th centuries. Tsunoda received her Ph.D. from Stanford University and has published several articles on Japanese history.

On assignment

Kathleen F. Bruckey, J.D., Cott Professor of Criminal Jurisprudence, has been appointed a member of the American Law Schools' Planning Committee for the Workshop on Criminal Law, which will be held Oct. 28-30 in Washington, D.C.

Lynn Stockman Inyorop, assistant athletic director, has been named a member of the Missouri Women in Sports Sciences Leadership Task Force. This group aims to increase opportunities and participation for women in sports leadership positions.

Raj Yaker, M.D., professor of psychiatry, is program director of a two-year seminar titled "Alzheimer's Disease: Advances in Diagnosis and Treatment," which will be held at the Adam's Mark Hotel in St. Louis. Kathleen Mann Koepke, Ph.D., research associate professor of psychology, serves as program co-director. The seminar focuses on the medical, neurobiological, and behavioral aspects of the disease. The Washington University Department of Neurology and Alzheimer's Disease Research Center and Office of Continuing Medical Education were among the seminar sponsors.

To press

William A. Barnett, Ph.D., professor of economics, Melvin Hinich, Ph.D., a professor in the Department of Sociology and Geography, and David V. O'Sullivan, Ph.D., professor of political science, have been named as co-editors of the new quarterly journal "Politics and Economics." The journal will cover a wide range of topics related to political economy, including political behavior, political institutions, and economic theory.

Guidelines for submitting copy:

Send your full name, complete title, department and affiliation, and a one-sentence description of your research to Carolyn Sanford, Campus Box 1070. The publication fee is $50 per page. Submitting papers should include an abstract not exceeding 150 words. For more information, call 935-1136.

Interim co-directors appointed to lead Business, Law and Economics Center

The John M. Olin School of Business has announced the appointment of two interim co-directors for the Business, Law and Economics Center. The appointments are effective immediately. The interim co-directors are:

- Robert B. Thompson, Ph.D., professor of business administration and law, who will serve as interim co-director of the Business, Law and Economics Center.
- Jennifer Chilton, an assistant professor of business administration, who will serve as interim co-director of the Business, Law and Economics Center.

The new interim co-directors will work closely with the current co-directors, who will be responsible for overseeing the center's operations.

For The Record continues at the Lightning Hilltop and Medical campus.

The following is a press release available at the Campus Bookstore in Mizzou Central on the Hilltop Campus or on the Hilltop Campus News website.

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Hilltop Campus
The following is a list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, Room 126 North Brooks Hall, or by calling 933-5996.

Assistant Accountant
940038. Engineering Accounting. Requirements: 18 hours of college course work, including six hours of accounting course work and one year of keyboarding and data processing; ability to use mainframe computer, including financial aid. Requirements: Familiar knowledge of systems (FIS, SILS, FCS, HCS), ability to use personal computer, including spreadsheet software (WordPerfect); confidence in verbal ability; ability to deal effectively with University personnel; up to two years secretarial/receptionist experience; tests and three letters of recommendation required.

Data Processing Assistant I
940032. University Registrar's Office. Requirements: Some college, bachelor's degree preferred; experience with computers, data processing and an interest in working with automated systems; clerical aptitude; pleasant, often will be first contact and must make a good impression on alumni, parents, students, donors and friends of the University and should do so calmly, politely and efficiently. Clerical tests and three letters of recommendation required.

Circulation Services Assistant
940064. Alumni and Development Program. Requirements: High school graduate, some college preference. Required: Demonstrated ability to handle public, typing 40 wpm with accuracy. Clerical tests and three letters of recommendation required.

Reference Librarian, Part-time
940076. Business. Requirements: ALA-accredited MLS. Employee will be responsible for all operations in the library during the weekend, will implement and interpret policy, provide reference service. Saturday, 1-5 p.m., Sunday, 3-15-7:15 p.m., two week days per week. Hours will vary with letter of recommendation required.

Departmental Secretary
940077. University College. Requirements: Two years of college, associate's degree preferred; typing 50 wpm with accuracy, ability to handle multiple tasks and establish priorities under pressure; ability to meet public hourly deadlines; professional business person; stamina (requires some deliveries of correspondence and packages across campus). Duties include recommendation requirements.

Departmental Secretary
940065. Alumni and Development Program. Requirements: Associate's degree, bachelor's degree preferred; ability to work well in the office environment and relate easily with others; willingness to learn the role of the Development Office. The University of Washington at St. Louis, a spirit of teamwork and a willingness to work extra hours if necessary; typing 50 wpm with accuracy. Clerical tests and three letters of recommendation required.

Clerical Services Assistant
940067. Olson Library. Requirements: Two years of college-level study or equivalent work experience; library work experience desirable; ability to communicate effectively orally and in writing and to deal with the public in a pleasant, calm and businesslike manner; computer skills, especially in data entry, desirable; bibliographic skills and familiarity with foreign languages desirable; typing 35 wpm with accuracy; ability to work with and handle animals; complete records under pressure; physical stamina; ability and willingness to work flexible hours, including some evening and weekend hours on a regular basis and some split days as required. Clerical tests and three letters of recommendation required.

Accounts Payable Processing Clerk
940068. Accounting Services. Requirements: Six semester hours of accounting business-related courses, or two years business office experience equivalent to an associate's degree from an accredited University, plus three semester hours of accounting and mathematical aptitude; good communication skills; experience in the use of mainframe or personal computer environment; computer applications. Clerical tests and three letters of recommendation required.

Support Center Supervisor
940069. Accounting Services. Requirements: Bachelor's degree preferred; knowledge of computer systems; ability to deal effectively with University personnel; up to two years secretarial/receptionist experience; tests and three letters of recommendation required.

Olin Library. Requirements: Master's degree in library science or related field preferred; academic background in personnel administration, adult education, psychology or counseling preferred: demonstrated skill in training adults to acquire new skills; use prior knowledge of training and maximize transfer; understanding of the role of the research library in higher education; experience in public relations preferred; sensitivity and responsiveness to staff needs; excellent oral and written communication skills. Application deadline in Nov. 1. Re-requirements and three letters of recommendation required.

Administrative Secretary
940078. General Services. Requirements: Some college preferred; typing 50 wpm with accuracy; excellent secretarial skills. Clerical tests and three letters of recommendation required.

Administration and Recruiting Assistant
940081. Consortium for Graduate Study in Management. Requirements: High school graduate; typing 35 wpm with accuracy; two or more years full- or part-time office experience; computer skills: experience with WordPerfect and ALPHAFAUC, Lotus 1-2-3 or other spreadsheet and word processing; know computer applications. Clerical tests and three letters of recommendation required.

Medical Campus
The following is a partial list of positions available at Olin School of Medicine. Employees who are interested in submitting a transfer request should contact the Human Resources Department of the medical school at 362-4920 to request an application. External candidates may call 362-7193 for information regarding application procedures or may submit a resume to Human Resources office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, Mo. 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to departments other than Human Resources.

Medical Research Technician
940091. B. Neurology. Requirements: Bachelor's degree and experience in medical research lab; initiative and judgment to make quick decisions; maintain cell cultures and lab; know basic toxicology protocols.

Animal Caretaker
940099. B. Comparative Medicine. Tyson Research Center. Requirements: Knowledge of animal husbandry, including some weekends, holidays and overtime. Requirements: High school graduate or equivalent; ability to work with and handle animals; must have valid driver's license; must be able to drive truck or van; should have manual skills and dexterity and be able to lift up to 50 lbs.

Medical Transcriptionist
940090. B. Psychiatry. Requirements: Three years of college education, including six hours of accounting course work; data processing and an interest in work with automated systems; typing with WordPerfect and experience on WordPerfect.

Systems Operator
941080. B. Pharmacy. Requirements: High school graduate or equivalent; good communication and customer-service skills; must be able to work independently; have some experience; knowledge of accounting procedures; typing 60 wpm.

Clinical Lab Tech
941099. B. Biochemistry and Gynecology. Requirements: Three years of college with an interest in working in a diagnose and research setting. Requirements: Bachelor's degree in chemistry, molecular biology or related field; experience with tissue culture and potentially toxic solvents, bacteria strains and tissue cell cultures.

Financial Aid Assistant
940024. Student Affairs. Requirements: Bachelor's degree and experience in a financial aid office. Requirements: One year college, bachelor's degree preferred; should be familiar with the use of basic laboratory instru- ments and be able to interpret effectively with individuals inside and outside the University.

Thelab Tech Research
940225. B. Pharmacology. Requirements: High school graduate or equivalent; ability to work under pressure; ability to meet priorities under pressure; ability to meet deadlines; excellent clerical skills; typing with Keyboard; ability to use computer and the office strongly discourages inquiries to departments other than Human Resources.

Institute 1
940239. Transportation. Schedule: Part-time, 20 hours per week, usually 9 a.m.-1 p.m., but hours may switch as needed. Requirements: High school graduate or equivalent; good communication and customer-service skills; must be able to work independently; have some experience; knowledge of accounting procedures; typing 60 wpm.

Systems Manager
940247. B. Internal Medicine. Requirements: Bachelor's degree preferred; ability to work with and handle animals; must have valid driver's license; must be able to drive truck or van; should have manual skills and dexterity and be able to lift up to 50 lbs.

Professors and Lecturers
940182-R. B. Psychiatry. Requirements: Master's degree; writing, editing and data analysis skills. Will be involved in multi-research projects dealing with drug and alcohol use and HIV risk behavior.

Supporter
940183-R. B. Pharmacology. Requirements: Bachelor's degree or equivalent; experience with tissue culture and the office strongly discourages inquiries to departments other than Human Resources.

Professor
940184-R. B. Rheumatology. Requirements: Bachelor's degree or equivalent; experience with tissue culture and the office strongly discourages inquiries to departments other than Human Resources.

Assistant Professor
940185-R. B. Obstetrics and Gynecology. Requirements: Bachelor's degree or equivalent; experience with tissue culture and the office strongly discourages inquiries to departments other than Human Resources.

Associate Professor
940186-R. B. Pharmacology. Requirements: Bachelor's degree or equivalent; experience with tissue culture and the office strongly discourages inquiries to departments other than Human Resources.

Professor
940187-R. B. Cell Biology. Requirements: Bachelor's degree or equivalent; experience with tissue culture and the office strongly discourages inquiries to departments other than Human Resources.

Administrative Secretary
940188-R. B. Neurology. Requirements: Bachelor's degree or equivalent; experience with tissue culture and the office strongly discourages inquiries to departments other than Human Resources.

Departmental Secretary
940189-R. B. Internal Medicine. Requirements: Bachelor's degree or equivalent; experience with tissue culture and the office strongly discourages inquiries to departments other than Human Resources.

Administrative Assistant
940190-R. B. Pharmacology. Requirements: Bachelor's degree or equivalent; experience with tissue culture and the office strongly discourages inquiries to departments other than Human Resources.

Chief Financial Officer
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