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Medicine, HHMI to develop library of mouse genes

To speed the identification of genes related to human diseases and to aid in the understanding of basic biological processes, the School of Medicine and the Howard Hughes Medical Institute (HHMI) are collaborating to identify and partially sequence the entire set of mouse genes. Researchers plan to generate as many as 400,000 partial sequences of genes that are expressed during the embryonic and fetal stages in an effort to assemble the entire set of mouse genes. The availability of these gene fragments, or expressed sequence tags (ESTs), should accelerate other biomedical scientists find disease-related genes as well as genes that control normal cell function.

The $2.3 million two-year project will be conducted at the School of Medicine and will be directed by Robert H. Waterston, M.D., Ph.D., James S. Watson, M.D., Ph.D., Professor of Genetics, head of the Department of Genetics and professor of anatomy and neurobiology. Waterston's research group will begin the mouse EST project with gene libraries developed by Bento Soares, a professor of genetics at Columbia University, with support from the National Center for Genome Research. They will provide a source of genetic material in which individual messenger RNAs are copied to form complementary DNAs (cDNAs). Waterston's research team will sequence segments of the individual cDNAs to create the ESTs.

Genetic data to go on line

"Once the sequences are completed and verified they will be made available immediately via the Internet. This re- search collaboration will help geneticists and developmental biologists who are using mouse models to seek clues to basic biological processes and the genetic origins of human diseases," said Purnell W. Choppin, M.D., president of HHMI. "This collaboration is an excellent opportunity to make these important data available to scientists around the world."

"HHMI should be commended for making this research collaboration possible," said Waterston. "These results will provide immediate access to many mouse genes of both practical and global importance. They will also be invaluable in interpreting sequences generated by the international Human Genome Project."

The ESTs will come from throughout the entire range of mouse embryonic and fetal tissues. The libraries, developed by Bento Soares, professor of genetics at Columbia University, with support from the National Center for Genome Research, will provide a source of genetic material in which individual messenger RNAs are copied to form complementary DNAs (cDNAs). Waterston's research team will sequence segments of the individual cDNAs to create the ESTs.

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Patrons of Washington University Libraries now can renew materials via the Internet

"Service to Society"

Engineering school gears up for 125th anniversary celebration

The 1995-96 academic year marks the 125th anniversary of the Washington University School of Engineering and Applied Science, one of the nation's oldest engineering schools. The school has chosen this spring to celebrate the milestone with a host of lively events, all falling under the theme of "Service to Society." The events are planned to involve everyone in the Washington University engineering community, and they're intended to be fun as well as informative and inspirational," said Christopher I. Byrnes, Ph.D., who in 1991 became the eighteenth dean in the engineering school's history.

"The school has many important accomplishments, with many more to come, and it is a mainstay of academic life at Washington University. Nearly 25 percent of the bachelor's degrees earned here are in engineering, and our alumni have made outstanding contributions in engineering and technology throughout the nation and the world."

After the founding of the University in 1853, the O'Fallon Polytechnic Institute — what was to become the School of Engineering and Applied Science — began offering evening lectures, elementary extension courses and practical shop experience aimed at St. Louis laborers who wanted to improve their technical skills. The O'Fallon Institute, located on the fourth floor of a now defunct building at 7th and Washington streets in downtown St. Louis, was the University's first principal department. In the 1870-71 academic year, the School of Engineering officially was inaugurated. Today, the school occupies nearly 170,000 square feet in six Hilltop Campus buildings.

Byrnes noted that the school has made many recent strides that have advanced its reputation. Among them are:

• A growth in patents issued from 10 in 1983 to more than 50 in 1995.
• The receipt of more than $21 million in research funding for engineering research projects in 1995, according to U.S. News & World Report.
• A national ranking of 20th among more than 300 engineering schools in graduate-sponsored research programs.
• Sixth among all schools in the number (seven) of National Science Foundation graduate fellowship awards.
• The attraction of top students to the school from high schools around the country.
• Since 1974, the incorporation of several alumni-sponsored programs that are influential in helping students join the workplace.

Washington University's engineering professors are making their marks in the traditional engineering disciplines and across a wide spectrum of interdisciplinary programs and research, such as biomedical, computer, environmental and materials science engineering.


125th Anniversary Schedule of Events

March 12: Annual School of Engineering and Applied Science Alumni Achievement Awards dinner, America's Center, St. Louis.

March 22: Honors Banquet recognizing engineering honors students. (Campus location to be announced.)

March 27-April 3: Engineering Week at Washington University.

March 27: Gala Birthday Bash luncheon for engineering students, faculty and staff, Lopata Hall Gallery. Hosted by Christopher I. Byrnes, Ph.D., dean of the school, the bash will be an opportunity to celebrate the school's long existence and to appreciate its history and contributions. The Society of Women Engineers Pagant will be held in conjunction with the Birthday Bash.

March 29: The Association of Graduate Engineering Students will hold a "research day" (Time and location to be announced.) This day will also kick off the undergraduate student design competitions.

April 2: The Engineering Olympics, a more lighthearted collection of events featuring paper-airplanes and egg-toss contests, among others, will be held in the afternoon, Lopata Hall Gallery.

April 3: There will be a lunch and awards ceremony for the undergraduate engineering design programs. (Time and location to be announced.)

May 3: Lecture and 125th anniversary banquet. The ceremonies begin at 4 p.m. in Edison Theatre with a lecture by Robert Galvin, chairman of Motorola Corp., and William Braun, senior vice president and director of research and development for Motorola. After the lecture, a reception open to the University community will be held in Bowles Plaza, Mallinckrodt Center. Later that evening, the anniversary banquet will be held at The Ritz-Carlton hotel in Clayton, where Braun will receive the school's first Award for Excellence in Engineering and Technology in recognition of his contributions to Motorola.

Continued on page 8
Researchers find genetic link to seasonal mood swings

Roy and Diana Vagelos endow biological chemistry chair

On a tour of the Washington University Medical Center, fourth-year student Katherine Shion, right, shows School of Medicine applicants Reena Awande and Alan Mullen a cardiac ultrasound machine in the echocardiography lab at St. Louis Children’s Hospital. The machine is used to identify congenital heart disease in pediatric patients. Seniors give tours to about a thousand applicants each year.

Impact of natural light on mood

Pamela Madden, Ph.D., research instructor of psychiatry, reported on a study of 4,639 adult twins from Australia to look at genetic influences on mood changes in mood and behavior.

"An advantage to conducting a study on seasonality in Australia is that their seasons are reversed — their winter occurs during our summer," said Madden. "This allowed us to distinguish the holiday blues from a winter form of seasonality."

She found that 13 percent of the twins in the sample reported that seasonal affective disorder (SAD) was a problem for them, but the number who had symptoms was about 17 percent. She reported that they suffered from mood changes, weight gain and sleep problems during the winter. Only 2 percent of the sample reported the extreme degree of quality described by patients with SAD.

The sample included both identical and fraternal twins. Because identical twins share 100 percent of their genetic material and fraternal twins share about 50 percent, Madden said the researchers expected to observe different levels of risk in identical and fraternal twins.

"We found that when one fraternal twin complained of symptoms of seasonal affective disorder, it was certainly more likely that his or her twin also would be affected. But with identical twins, the link was even stronger," Madden said. "We found that genes play an important role in determining whether or not someone experiences seasonal affective disorder."

The researchers found that when a fraternal twin reported problems with seasonality, the risk for the other twin compared with the average person in the study was increased 50 percent. In identical twins, the risk increased 75 percent.

Madden and colleagues found a "significant genetic influence" on seasonality, but they believe environmental factors also are crucial. While they found that 29 percent of the risk is genetic, the rest of the risk lies in environmental factors.

"There is evidence from clinical research to suggest that this condition may be triggered by changes in the environment such as reductions in sunlight, but what we have shown is that genetic factors may play an important role in determining how sensitive a person may be to the onset of winter," Madden added.

The investigators determined that genetic effects exerted a similar influence over the various symptoms of seasonality. Changes in eating, sleeping, weight, social contact, energy level and mood tended to occur together. If one twin had those seasonal symptoms, the other twin was at risk for all of them as well. They also found very little difference between men and women in the risk for seasonal changes.

As a result of these findings, Madden said she would expect that when a person suffers from one symptom of seasonality, he or she would be likely to report problems from all symptoms of the disorder. She also would expect that other family members may experience similar problems.
In the second grade, Julio V. Santiago's standardized test scores were so low that his parents were concerned about his reading. The principal recommended that Santiago be sent to a school for children who were slow learners. But Santiago did not have a reading problem — he just couldn't speak English.

His parents moved to New York City in 1949 after the sugar cane industry in Puerto Rico had gone bust. Santiago was the first Puerto Rican student to attend school in New York's Bronx.

"So in order to get me into some sort of a discipline, my parents had this ethic that you could do almost anything if you had good grades," he said. "I could get out of doing housework if I brought home As, and my success was measured by whether or not I was a good student."

He spent many hours studying the classics for his honors classes while at the old Madison Square Gardens, waiting in the cheap seats to see the Knickerbockers or the Rangers. "You needed to get there about two hours early so you could have a seat that would allow you to see at least three-fourths of the rink. Since I had two hours to kill, I spent a lot of time reading 'The War of the Worlds,' 'Cicero's 'De Senectute' and other works."

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Lectures

Thursday, Feb. 8
10:30 a.m. Vision science seminar. "Voiced Output in the Ciliary Epithelium," Martin Wax, assoc. professor of ophthalmology and visual sciences, East Pavilion Aud., Barnes Hospital.
Friday, Feb. 9
1 p.m. Gallery talk. "Lifting the Veil," an informal discussion of the Robert S. Duncanson exhibit with Stacy Robinson, a graduate student who helped prepare mate- rials for the exhibit. (See Exhibition, this page) Gallery of Art, upper gallery, Brown Hall. 935-5304.
Saturday, Feb. 10
10:30 a.m. Art history and archaeology lecture. "Cowboy's Delight at Oatman: A New Reading," Franz Zelger, prof., U. of Zurich, Switzerland. Room 200 Steinheil Hall, Mallinckrodt Center.
Monday, Feb. 12
Tuesday, Feb. 13

Calendar

Exhibitions

"Versions of the Self: The Poetry of John Keats and his Circle." Through March 1. Special Collections, Olin Library. First Floor: 8:30 a.m.-5 p.m. weekdays. 935-5493.
"Metroland: Transit Poetry From Around the World." Through February. International Writers Center, West Campus Conference Center. Hours: 8:30 a.m.-5 p.m. weekdays. 935-5576.
"Lifting the Veil: Robert S. Duncanson and the Emergence of the African-Ameri- can Artist." More than 50 paintings, manus-cripts, newspapers, books and drawings from all periods of Duncanson's career. Through March. Gallery of Art, Steinheil Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. 935-5490.

Films

All Filmboard movies cost $3 and are shown with a $1 admission to the Hall. 24-hour hotline, 935-5938.

Thursday, Feb. 8
7:30 p.m. French Film Series. "Les Diaboliques" (1955), with English subtitles. Room 162 McDonnell Hall. 726-1565.

Friday, Feb. 9
7 and 9:30 p.m. Filmboard. "Easy Rider" (1969), starring Peter Fonda. (Also Feb. 10, same time, and Feb. 11 at 9:30 p.m.)

Monday, Feb. 12
8 p.m. Filmboard. "Nashville" (1975), directed by Robert Altman. (Also Feb. 13, same time.)

Tuesday, Feb. 13
7:30 p.m. French Film Series. "Hibiscus Town" (1956), with English subtitles. Room 219 South King Hall. 935-5516.

Thursday, Feb. 15
7:30 p.m. French Film Series. "Lettres" (1955), with English subtitles. Room 162 McDonnell Hall. 726-1565.

Calendar guidelines

Events sponsored by the University — its departments, schools, centers, organizations and recognized student organizations — are published in the Calendar. All events are free and open to the public, unless other- wise noted.
Calendar submissions should state time, place, sponsor, title of event, name of speaker(s) and affiliation(s), and admission fee. Quality promotional photographs with descriptions are welcome. Send items to Daily Bulletin, Campus Box 1070 or via fax: 935-4239. Submission forms are available by calling 935-4926.
Deadline for announcements is the day before publication. Late entries will not be printed. The Record is printed every Thursday during the school year, except holidays, and monthly during the summer. If you are uncertain about a deadline, holiday schedule or any other information, please call 935-4926.

Friday, Feb. 16
7 and 9:30 p.m. and midnight. Filmboard. "Easy Rider" and "The Wild One." Friday, Feb. 16, same time, and Feb. 17, same time.)

Tuesday, Feb. 13
7 and 9:30 p.m. and midnight. Filmboard. "Easy Rider" and "The Wild One." (Also Feb. 17, same times.)
7:30 p.m. Filmboard. "Les Diaboliques" (1955), with English subtitles. Room 162 McDonnell Hall. 726-1565.

Music

Friday, Feb. 9
8 p.m. Edison Theater's "OVALTONS" series presents jazz saxophonist Joshua Redman. Tickets: $20 for the general public; $16 for senior citizens and WU faculty and staff. Edison Theatre. 935-5433.

Saturday, Feb. 10
7 p.m. Praise and music performance. "Reflections of Blackness." Features works by Spike Lee, August Wil- son, Duke Ellington, and Betty Carter in celebration of Black History Month that focus on black identity. Cost: $7 for students and faculty; $10 for WU alumni, parents, and staff; and $11 for WU students. Edison Theatre. 935-5433.

Friday, Feb. 16
8 p.m. Edison Theater's "OVALTONS" series presents the Black Light Theatre of Porgy's version of "Peter Pan." (Also Feb. 17, same time.) Cost: $20 for the general public; $16 for senior citizens and WU faculty and staff; and $11 for WU students. Edison Theatre. 935-5433.

Performances

Friday, Feb. 9
8 p.m. Performing Arts Dept. presents "The Double Inconstancy." A "Pierrot le Fou" of Max Ophuls' romantic comedy. (Also Feb. 17, same time.) Cost: $8 for the general public and $6 for senior citizens, all students, and WU faculty and staff. Drama Studio, Room 208 Mallinckrodt Center. 935-5453.

Miscellany

Cultural Celebration events continue. Remaining events and "Remembrance After" performance by the St. Louis Black Repertory Company at 7 p.m. Feb. 8 in Graham Chapel; and "A Joint," a celebration of African-American music with the Willie Akins Quartet and The Big Band from 9 p.m.-1 a.m. Feb. 9 at The Gargoyle, Mallinckrodt Center. 935-2306 and 935-2887.

Sunday, Feb. 11

Saturday, Feb. 17
8 p.m. Voice recital. Featuring soprano Melinda Block, a senior art major. Block will also present a display of her artwork, which is representative of the musical program. Program: "Five Short Songs on Women's Names" by Arthur Honnergere, "The Cleisthenes" by Courtiaigno, "Aria" by Monteverdi, "Nocturne" by Francis Prolence, and "Desperte and Still" cycle by Samuel Barber. Steinheil Hall Aud. 935-5851.
Career Week events continue. "I earn and Discover" features a series of workshops, panel discussions and events focusing on career exploration. Activists, held at various locations on campus, continue through Feb. 9. Open to the WU community only. 935-5930.

Thursday, Feb. 8

New Horizons Program. The International Student Resources Group will tour the Field Motor Co. sponsored New Horizons Program for International Students. To sign up, call 935-4787.


Friday, Feb. 9

Mitzvah Corps outing deadline. Visits to Mitzvah Corps outing deadline. Visits to the Jewish Center for the Aged, Ecumenical Jewish meditation mini-course with Rabbi Open to the WU community only. 935-5930.

Career Week events continue. For more info., call 935-1278.

Saturday, Feb. 10

Hillel Center Special Olympics volunteer sign-ups. The Jewish Student Council Sports Special Olympics Buddy Team needs volunteers to cheer on their special athletes. For more info., call 935-1278.


Sunday, Feb. 11

2:30 p.m. "Poetry of Love and Hate," in anticipation of Valentine's Day. Craft with paper and glue. Room 241 Simon Hall. For more info. (See this page) 935-5576.

Monday, Feb. 12

9 a.m.-5 p.m. Literary reading. "Laod, Tangled with Truth," presented by the Library in celebration of the reading of the book: Campus Bookstores, Multiple locations. $3.50. Room 104 Bixby Hall. Cost: $3.50. Register, call 935-4643.


6 p.m. Woman's Club event. "University Night," Thursday and Friday. A discussion among faculty and students about topics ranging from being a woman in academe to facing sexual harassment. Open to the WU community only. Cost: $17.50. Hotel Grant City, Room 104 Bixby Hall. For more info. and to make reservations by Feb. 12, call 725-0372 or 862-4560.

Swim teams drown

UJA rivars Chicago

leaving Monday, Feb. 11, at 9 a.m. in the hallways of rooms 104 and 204 in Bixby Hall. For more info. call the Edison Theatre box office at 935-5576.

Women looesters lengthen

wrestling

paring to a roll of blowouts victories, the WU women's basketball team extended its winning streak to 18 games with a 79-74 win over the University of Rochester (N.Y.). Dalrymple, who totaled 27 rebounds in the win, was named the game's Most Outstanding All-tournament leading rebounder in the 82-74 win over Meredith in the NCAA Women's Basketball Tournament.

The Bears, led by a pair of individual women's Gold Medalist Shapu and Ryan, who bettered his own mark with a 5-

200-yard dash, and junior Alyce Nelson, clocking while finishing second in the women's 500-yard freestyle race, were both named to the Women's Swimming & Diving team for the NCAA West Regional meet.

Among last week's standouts were senior

women's swimming and diving teams

Leaving UAA rival University of Chicago in its wake, the WU men's and women's swimming and diving teams completed an undefeated season. The men, led by a pair of individual leaders: freshman Shapu and Ryan, who bettered his own mark with a 5-

200-yard dash, and junior Alyce Nelson, clocking while finishing second in the women's 500-yard freestyle race, were both named to the Women's Swimming & Diving team for the NCAA West Regional meet.

Among last week's standouts were senior

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Leaving UAA rival University of Chicago wins 697 caroms for his career. He also paced

Ronald's team with wins over Fontbonne College and the

University (Pittsburgh)

McDowell, a senior majoring in biology, who bettered her own mark with a 5-

200-yard dash, and junior Alyce Nelson, clocking while finishing second in the women's 500-yard freestyle race, were both named to the Women's Swimming & Diving team for the NCAA West Regional meet.

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Current record: men 26; women 3-3.

Love, hate theme of poetry reading

The International Writers' Center in Arts and Sciences will sponsor an evening of poetry reading. The event will present a poetry reading from noon to 1 p.m. Sunday, Feb. 11, at Craft Alliance, 6640 Delmar Blvd. Free and open to the public. In anticipation of Valentine's Day, "Poetry of Love and Hate" will be read by local poets Jane Ellen Hirr, Steve Schneider, Eddie Kolker and William LeMoine. The Washington University graduate students' Joie Kato and Donna Bishop will also read. Poems by Shakespeare, Donne and Bishop will be read, as will poems written by the students.

This is the second year for A&E Weekend, in which many St. Louis Arts organizations present programs to showcase their events for the general public. All events are free and are presented in different locales—from Powell Symphony Hall to the White Auditorium to the University at Edwardsville. There will be more than 100 performances, readings, poetry and hands-on activities at 20-plus sites. The nonprofit Arts and Education Council of Greater St. Louis raises funds for more than 150 arts, cultural and educational organizations throughout the bi-state area. The council encourages sponsors to showcase the availability of arts and education programs to everyone in the bi-state community.

For more information about the poetry reading, call Lora Wesolowski at 935-5576. For information about A&E Weekend, call Linda King at 535-3660.

Alumni to lecture on black, white wealth

Sociology alum Lynda W. Bonner will give the Lehigh University alumni lecture next week. Her lecture on "The Importance of Race in Education," is part of the Assembly Series and will be held in Graham Chapel. His lecture, "Paral-
**Internet makes book renewal easier**

Library officials at Washington University have made available on its home page an electronic renewal form that eliminates the need to walk over to one of the libraries to renew books. Instead, patrons can jump on the World Wide Web from their offices or homes, fill out the form, and, with the click of a mouse, send the form to the University Libraries where a person will renew the materials.

Shirley K. Baker, vice chancellor for information technology and dean of University Libraries, said the electronic form allows patrons to send renewal requests by University Libraries were being requested by patrons through e-mail. The result was a need for a renewal form that eliminates the need to send items that have been checked out of these libraries. Olin, Art and Architecture, Biological Sciences, Chemistry, Earth and Planetary Sciences, East Asia, Geography, Gaylord Music, Gustavus A. Pfeiffer, Social Work and West Campus.

The on-line renewal form may not be used for items checked out of the Law Library. The Bernard Becker Medical Library.

Here's how to access the University Libraries' on-line renewal form

"WorldWideWindow" will be asked to provide a password. Type "guest" for both and click on OK. This will take you to a menu listing of several options, which can be found under the heading "About the Libraries at Washington University." Click on the entry "Circulation Services," which can be found under the heading "About the Libraries at Washington University." This will take you to a new page. Then click on the entry "Renews," which can be found under the heading "The Circulation System." Click on the entry "Renew your books here." Then click on the link "Renewal form," which will then appear on the screen.

The renewal form can also be accessed on WorldWideWindow, the library's home page and click on the entry titled "WorldWideWindow." You will then be taken to a new page, where you should click on the item "On-line renewal form," which will take you to the form.

Patrons who do not have World Wide Web access can dial into WorldWideWindow using their modems. If you have trouble accessing the form, call circulation at 935-5420.

**Students visit Holocaust museum**

Thirty Washington University undergraduate students traveled to Washington, D.C., last month to visit the U.S. Holocaust Memorial Museum.

The three-day trip, titled "A Journey to Remember," began Jan. 25. Students of the St. Louis Hilltop Center and the Jewish Student Council planned the trip. The students will draw on their experiences to plan a campuswide program for Holocaust Memorial Day in April.

While in Washington, the students also helped the Jewish Community Center refurbish an inner-city church; dined with students from the Hirsh Student Jewish Center at George Washington University; and saw the play "Coming of the Hurricane" at the Arena Stage, a famous Washington theater, as part of the city's pre-Black History Month activities.

Matthew Lakenbach, a first-year student from New York City, said the museum trip provided students with a great opportunity to learn more about the Holocaust.

"The museum itself, with its features interactive displays and videos, a children's learning center and a library. The displays, ranging from those on the Jewish Resistance to Nazi propaganda, are very complete. The whole thing had an impact on me," said Lakenbach, whose paternal grandparents fled their native Austria for Italy and eventually settled in the United States during World War II.

In one case, they had a video listing the laws that restricted Jews from the mid-1930s to the mid-1940s. Marriage between Jews and non-Jews was forbidden, and items like scissors and knives were removed from the Jews' homes for fear they would retaliate," said Lakenbach. "The laws became more and more severe as World War II progressed. As a Jew, I thought, 'These laws would have applied to me. It was really shocking.'"

When visitors first enter the museum, they each are given an identification card with a picture of a Holocaust victim. They go through the exhibits while reading related information about the victims. In some rooms, victims' voices are heard on audio tapes. Before leaving the museum, visitors learn whether the victims on their identification cards were killed or taken to the concentration camp or escaped.

February is Jewish Awareness Month, and numerous campus events are planned, including a course on Jewish cooking, a day of community service, jewelry making and a party featuring old and new Hebrew songs. For more information, call 726-6177.

**Campus Watch**

-Joseph Ketner, Ketner to lecture on early American-African art

The gallery is hosting the curatorial with QSRS, a nonprofit organization of African educational programs for people 55 and older.

The class, which meets from 10 to 11 a.m. on five consecutive Wednesdays

"misplaced markers" that notify scientists where genes are located. This information should speed the pace at which geneti-

mists identify an organism's known function.

"One of the big questions of out this project that we still will not know anything about," said Richard K. Wilson, Ph.D., researchers at Emory University. "But we can take those bits of DNA and use them to compare one organism to another—mouse and human DNA sequences."

This effort, which underscores the importance of mouse models of human diseases, will complement the ongoing work of several research groups that are developing ESTs of the human genome.

Waterston's team, with support from Merck & Co. Inc., already has made more than 25,000 human ESTs freely available. The team, led by Craig Venter of The Institute for Genomic Research in Rockville, Md., also has sequenced a large number of human ESTs, which are being made available to scientists an an electronic database under the terms of a database-access agree-

A committee chaired by Shirley Tilghman, Ph.D., an HEIHEI center investigator at Princeton University and an authority on the mouse genome, will provide advice and oversight to Waterston's research team.

The form will allow users to renew their books. Instead, patrons can jump on the World Wide Web from their offices or homes, fill out the form, and, with the click of a mouse, send the form to the University Libraries where a person will renew the materials.

Shirley K. Baker, vice chancellor for information technology and dean of University Libraries, said the electronic renewal form allows patrons to send renewal requests by e-mail. The result was a need for a renewal form that eliminates the need to send items that have been checked out of these libraries. Olin, Art and Architecture, Biological Sciences, Chemistry, Earth and Planetary Sciences, East Asia, Geography, Gaylord Music, Gustavus A. Pfeiffer, Social Work and West Campus.

The on-line renewal form may not be used for items checked out of the Law Library. The Bernard Becker Medical Library.

Here's how to access the University Libraries' on-line renewal form

"WorldWideWindow" will be asked to provide a password. Type "guest" for both and click on OK. This will take you to a menu listed on a selected "standardized Resources." Then type "search" where it says "Enter Keywords to search for" and click on OK. This will take you to a new screen, where you should click on the item "On-line renewal form," which will take you to the form.

Patrons who do not have World Wide Web access can dial into WorldWideWindow using their modems. If you have trouble accessing the form, call circulation at 935-5420.

**Campus Watch**

The following incidents were reported to the University Police Department, Jan. 29-Feb. 2. A reader with information that would assist the investigation of these incidents are urged to call 935-1355. This release provides gà public service to promote safety awareness on campus.

**Jan. 29**

7:30 a.m. — A staff member reported that a radio/compact disc player, two stuffed animals and three boxes of Cracker Jack — valued at a total of $133 — were stolen from Brown Hall. 12:38 p.m. — A student reported that a passenger-side mirror, valued at $250, was stolen from a vehicle parked near the Millbrook Square apartments.

6:42 p.m. — A student reported being struck in the face by another student during a gathering at a fraternity house. No injuries were sustained. The incident is being referred to the judicial administrator.

9:42 p.m. — A student reported that a wallet, $50 in cash, two credit cards and 17 compact discs — valued at a total of $230 — were stolen from a Millbrook Square apartment.

**Jan. 30**

2:15 p.m. — A student reported that four gold rings, valued at more than $500, and $60 in cash were stolen from a Millbrook Square apartment.

8:17 p.m. — A student reported that a wallet, $5 in cash, credit cards, a checkbook and a diabetes monitor — valued at a total of $90 — were stolen from the Athletic Complex.

**Feb. 2**

8:25 a.m. — A Merchant Service Management employee reported that two 10-gallon water containers and a sign — valued at a total of $150 — were stolen from Millbrook Square apartments.

12:30 p.m. — A staff member reported being struck in the face by another student during a gathering at a fraternity house. No injuries were sustained. The incident is being referred to the judicial administrator.

6:42 p.m. — A student reported that a "smart" card machine in Brown Hall had been damaged. The amount of money stolen from the machine is unknown, but the ma-

**Feb. 3**

8:12 a.m. — University Police and the Clayton Fire Department responded to a fire at Brown Hall. The fire apparently started in a deep-fryer and caused extensive damage to the building.

University Police also responded to a false fire alarm in Millbrook Square apartments, and to vandalism in Unakaahkell and Welh Student Center.

**Feb. 1**

8:17 p.m. — A student reported that a wallet, $5 in cash, credit cards, a checkbook and a
Of note
Jay F. Piccirillo, M.D., assistant professor of otorhinolaryngology, and medicine and of occupational therapy, received a $15,000 grant from the St. Louis Children's Hospital Research Foundation for a project titled "Measurement and Prediction of Hearing Aid Benefit."

Derek K. White, chief technologist in the pulmonary laboratory in the Department of Pediatrics, received the Practitioner of the Year Award from the American Association for Respiratory Care's diagnostics specialty section.

Speaking of
Julia Biedenstien, a coordinating teacher at the Alexander Institute for the Deaf (CID), and Lisa S. Davidson, a lecturer in audiology in the Department of Speech, Hearing and School audiology at CID, presented a seminar titled "Coehlar Implants in Children: Rehabilitation, Technology and Techniques" in Albuquerque, N.M.

During the National Council on Family Relations' annual conference in Portland, Ore., Loetha Chadilla, Ph.D., assistant professor of social work, presented a joint paper titled "Religiosity and Church-based Assistance Among Chronically Ill African-American and White Elderly."
The conference was titled "Families: Honoring Our Past, Creating Our Future." She wrote the paper with Osel Darkwa, Ph.D., an alumnus of the George Warren Brown School of Social Work who is an assistant professor of social work at the University of Minnesota in Chicago. Peter Dore, database administrator for the school's Center for Mental Health Services Research; Nancy Morrow-Howell, Ph.D., associate professor of social work and assistant professor, S. Proctor, Ph.D., Frank J. Bruno Professor of Social Work Research and director of the center.

Patricia Cobey, playwright-in-residence in performing arts and in English in Arts and Sciences, presented reading at Northwestern University's Institute of Higher Education in Northern Ireland.

Valerie Frigo, an educational consultant at the Central Institute for the Deaf (CID), and Karen Newell, assistant professor of education of the hearing impaired in the Department of Speech and Hearing and coordinator of a program at CID, delivered a presentation titled "Responsible Inclusion: Access, Assessment and Service" at the Alexander Graham Bell Association for the Deaf's convention in Montreal. The conference was titled "Choices and Challenges: A Conference on Responsible Inclusion."

In addition, Stein and Christine H. Gustaf, principal of CID and S. lecturer in education of the hearing impaired in the department, presented a language instruction workshop at the Summit Speech School in Newark, N.J., on the Science of Language.

Anita Nagel, M.D, assistant professor of medicine, anotbed on cell membranes in the formation of the shoulder and elbow surgery. He also nominated in London. He was named to the St. Louis Professional Development Workshop Committee. Vermilion was appointed to the Auditors Council.

Making the news
Charles Osgood of the "CBS This Morning" news program quoted Nell Bernstein, LL.B., professor of law, in a story on the United Auto Workers' 17-month strike and contract vote. Bernstein was quoted on the topic by reporters from The New York Times, Los Angeles Times, Voice of America, Reuters, Associated Press, Chicago Sun-Times, St. Louis Post-Dispatch and International "Marketplace" program...


To press
Shirley K. Baker, vice chancellor for Information Resources, and dean of the University Libraries, edited a volume of essays titled "The Future of Resource Sharing" published by his home in Ladue. He was named to the St. Louis Professional Development Workshop Committee. Ketner was appointed to the Auditors Council.

Senior Anastasia White shows off her winning lingerie design.

Anastasia White, a freshman in fine and design of the University Libraries, edited a volume of essays titled "The Future of Resource Sharing" published by the University Libraries last summer by CID. ... Anastasia and 15 other finalists in the competition sponsored by Caress Body Products and VIII Music First. Her winning design was selected from more than 1,200 entries from across the country. White won $500. The grand prize winner received $1,000. "They were looking for designs that portrayed their idea of a Caress woman... soft and sensual," White said of the competition sponsored by the popular soap company. White's creation is a long, sheer, ivory-colored lounging gown. It is backless with a halter neck. The gown flares out at the bottom and has a small train. A peach and ivory-colored kimono-type robe may be worn over the gown. White and 15 other finalists in the competition sewed their creations. They were then displayed in a fashion show Jan. 18 at New York's Fashion Cafe, which White attended.

Before the competition, White had never expected to become a lingerie designer. With her recent success, she is reconsidering her future and now plans to build her portfolio around the annual underwear shows. "I'm going to go ahead and create a line of lingerie," said Jean B. Ervin Scholar.

Student named first runner-up in lingerie design competition
Senior Anastasia White is stitching together a future that looks as smooth as silk.

The 21-year-old fashion design major from New Orleans is recently a first runner-up in a lingerie design competition sponsored by Caress Body Products and VIII Music First. Her winning design was selected from more than 1,200 entries from across the country. White won $500. The grand prize winner received $1,000. "They were looking for designs that portrayed their idea of a Caress woman... soft and sensual," White said of the competition sponsored by the popular soap company. White's creation is a long, sheer, ivory-colored lounging gown. It is backless with a halter neck. The gown flares out at the bottom and has a small train. A peach and ivory-colored kimono-type robe may be worn over the gown. White and 15 other finalists in the competition sewed their creations. They were then displayed in a fashion show Jan. 18 at New York's Fashion Cafe, which White attended.

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Introducing new faculty members

Medical Campus
Steven Bauness, Ph.D., assistant professor of ophthalmology and visual sciences, comes from the Uniformed Services University of the Health Sciences in Washington, D.C., where he was a research assistant professor of anatomy and cell biology for five years. His research interests include the role of cell membrane proteins in the formation of cataracts and the delivery of gene therapy to the eye. He received a bachelor's degree in zoology and marine biology in 1982 from the University of Maine in Great Britain and a doctorate in biophysics in 1987 at the University of East Anglia, also in Great Britain.

Louis Aitken, assistant professor of medicine
Louis F. Aitken, M.D, clinical assistant professor of medicine, received a bachelor's degree in zoology and marine biology in 1982 from the University of Maine in Great Britain and a doctorate in biophysics in 1987 at the University of East Anglia, also in Great Britain.

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

Guidelines for submitting copy:
Send your full name, complete title, department, phone number, and highest-earned degree, along with a typed description of your noteworthy activity, to For The Record, c/o Carolyn Sanford, Campus Box 1709, or p72245cs@wustl.edu. Items must not exceed 75 words. For more information, call Sanford at 935-5293.

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The following is a partial list of posi-
tions currently open at Washington Uni-
campus. Information regarding these
positions is available at the Office of Human Resources,
Ruth LaBatt Building, Suite 100, by call 453-5580.

Administrative Assistant 960147.
Collaborator, Director of Corporate Affairs: high school graduate, some college
experience with Lotus notes; IBM main-
frame; ability to work effectively with
colleagues; strong oral and written
communication skills; ability to handle mul-
tiple priorities and organizational
tasks; ability to work with deadlines and
deadline-oriented; detail-oriented.
Application required.

Administrative Assistant 960150.
Department of Education, Temporary
(one-year assignment). Requirement:
certification or associate's degree in
Education, or B.A. or B.S. in Education.
Application required.

Administrative Assistant to the
Assis-
tant Dean or Director of External Affairs:
Requirements: high school graduate;
knowledge of personal computers
and Windows-based word processing;
ability to work effectively with
colleagues; strong oral and written
communication skills; ability to handle
multiple priorities and organizational
tasks; ability to work with deadlines and
deadline-oriented; detail-oriented.
Application required.

Senior Project Engineer 960154.
Engines and Structural Analysis: Requir-
ements: bachelor's degree, college
degree/associate's degree; two years exper-
ience in the design and development
of aircraft structures; ability to work
effectively with colleagues; strong
oral and written communication
skills; ability to handle multiple
priorities and organizational
tasks; ability to work with
deadlines and deadline-oriented;
detail-oriented. Application required.

Assistant Director, John C. Olds
School of Business 960155.
Alumni and Development: Require-
ments: bachelor's degree; five years
experience in developing and man-
gaging alumni and development
rela-
tionships; ability to work effectively
together with a diverse group of
individuals; excellent oral and written
communication skills; strong
interpersonal skills; ability to
represent the university in an
effective manner; excellent
equipment and organizational
skills; detail-oriented. Application
required.

Software Specialist 960150.
The Software Library: Requirements:
bachelor's degree; college degree;
administrative background preferred:
experience in customer relation
and technical support; ability to
use office automation and Internet
tools; ability to manage technical
information and provide
technical support in a multi-
platform environment,
including excellent written and
verbal communication and
organizational skills; detail-oriented.
Application required.

Senior Project Leader 960165.
Computing and Communications:
Requirements: high school gradu-
ate, some college, five years experi-
ence in telecommunications design
and program, has written computer
programs and understands
programming, data management and
computer systems.
Application required.

Administrative Assistant 960161.
Career Center: Requirements: high school
graduate; some college; special
ized technical background; computer
knowledge, file, instructions; knowl-
edge of University policies and
procedures; to work under gen-
tal supervision with responsibility for
work and use of office equipment and
tools, content ability to group
information and separate it into
several categories to solve and
to resolve or introduce
procedures and to solve novel or prob-
bable interpersonal realities and
order; good oral and written
communication skills; ability to
handle multiple priorities and
organizational; ability to work
effectively with colleagues;
interpersonal skills; ability to
work effectively with
colleagues; strong
oral and written
communication skills; ability to handle
multiple priorities and organizational
tasks; ability to work with
deadlines and deadline-oriented;
detail-oriented. Application required.

Program Systems Programmer II 960156.
Systems Analyst: Requirements: bachelor's
degree in computer science or
related field; one year experience in
programming and system develop-
ment; Application required.

Senior News Editor 960157.
Department of Publicity: Require-
ments: bachelor's degree, journal-
ism/publishing/communications;
degree preferred, those with five years pro-
essional journalism experience
preferred. Application required.

Administrative Assistant 960169.
Alumni and Development: Require-
ments: college degree or
degree equivalent; specialized ac-
complishments; excellent verbal
and written communication
skills; interpersonal and organiza-
tional skills; ability to work
effectively with colleagues;
strong oral and written
communication skills; ability to
handle multiple priorities and
organizational; ability to work
with deadlines and deadline-oriented;
detail-oriented. Application required.

Payables Account System Repre-
sentative 960161.
Accounting: Requirements: high school
graduate, some college, two years
experience in accounting;
counting; college courses in busi-
ness accounting preferred;
work experience in a routine office
equipment, including, PCs,
calculator, computerized
communications, organizational,
paper and appraisal skills;
use of discretionary judgment;
word processing, spreadsheet
databases and experience highly de-
craved. Physician's assistants will
participate as a team player
among projects to achieve the
effects of Accounting Services.
Application required.

Accounting System Repre-
sentative 960166.
Accounting: Requirements: bachelor's
degree, experience in accounting;
knowledge of routine of-
fice software; ability to
interact with Lotus notes; IBM main-
frame; ability to work with
deadlines and deadline-oriented;
detail-oriented. Application required.

Pensions Service Representative
960173.
Requirements: high school
graduate; five years experience in
pensions, Social Security
administration; ability to
interact with Lotus notes; IBM
mainframe; able to use office
automation and Internet
tools; ability to manage technical
information and provide
technical support in a multi-
platform environment,
including excellent written and
verbal communication and
organizational skills; detail-oriented.
Application required.

Clerk II 960624-R, 960625-R.
Medical Transcriptionist: Require-
ments: high school graduate or
equivalent; the ability to handle
multiple priorities and organizational;
ability to work with
deadlines and deadline-oriented;
detail-oriented. Application required.

Medical Transcriptionist 960626-R.
Department of Medical
Records: Requirements: high school
graduate or equivalent; the ability to
handle multiple priorities and
organizational; ability to work
with deadlines and deadline-oriented;
detail-oriented. Application required.

Events celebrate past, preview future — from page 1

Adelaide A. Wgelpe Professor of Computer
Science and Information Technology, Senator
Jonathan T. Purda, PhD, the Henry Edward Southwestern
Professor of Engineering and chair of the Depart-
tment of Computer Science, is respon-
sible for more than six students in four
major programs in the school's four
computer science programs. Among
the students, Wgelpe said, are those with
two to three years experience in the
field.

"They have found the school's
growth and vigor exciting," the professor
said. "There is one view that shows the
trade-offs between 8 a.m.-5 p.m. Mondays-
Fridays. The school, Washington University provides
an exciting future."