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April 26, 2002

Volume 26 No. 30



Washington University in St. Louis

Health plans to undergo key changes

Faced with significant medical inflation and very high claims experience in all health plans, the University is implementing two key changes as part of the fiscal year 2003 health open enrollment.

First, CIGNA HealthCare's HMO and POS plans are being replaced with UnitedHealthcare's HMO and POS plans. And second, an option is being added to the Alliance Blue Cross Excel and Basic plans that allows for the selection of a smaller network of providers (BJC, Unity and Washington University Physician Network included) in exchange for lower premiums.

These changes result in the offering of six health plans and a dental-only plan to eligible University faculty and nonunion staff. The health plans include the package of medical, dental, prescription drug and vision examination coverage.

This new lineup of plans provides both extensive choice and a wide range of premium levels.

In addition to the new plan offerings, there will be changes in the office and emergency room co-pays for the UnitedHealthcare HMO and POS plans, changes in the deductibles and out-of-pocket maximums for the Blue Cross Excel plans and changes in the three-tier prescription drug co-pays.

To assist faculty and nonunion staff members with the selection of the appropriate health plan, the human resources office is providing the following sources of information:

- Informational packets will be sent to campus boxes during the week of April 29;

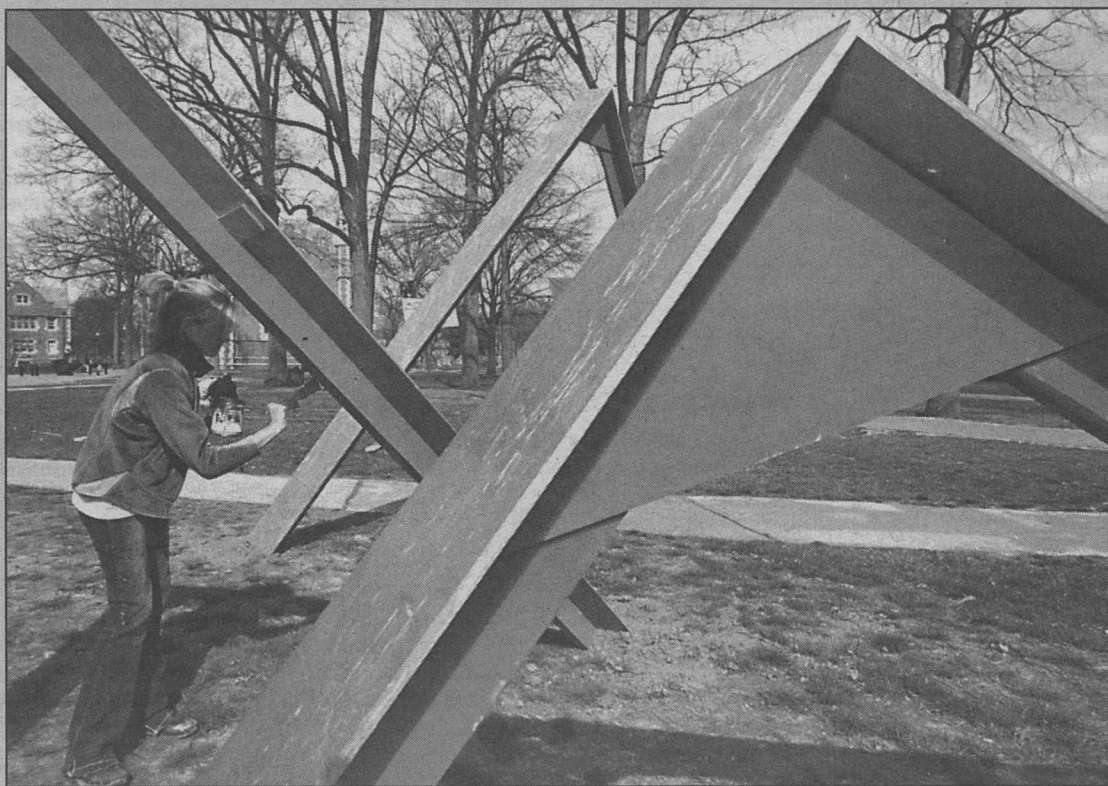
- A special Web site — hr.wustl.edu/openenrollment — has been launched;

See **Health plans**, Page 6

Open enrollment

The health-care benefits open enrollment period is scheduled from May 1-31 and most health benefit changes will be effective July 1. Any enrollment changes to health or dental-only coverage must be made by 5 p.m. May 31.

Hilltop artwork



School of Art sophomores in Special Topics in Core: Outdoor Design Installation, led by Lecturer Arny Nadler, recently created a series of public artworks for sites on the Hilltop Campus. Above, Ashley Hornsby puts the finishing touches on *Cycle No. 5*, a series of progressive geometric forms — built of wood but designed to resemble steel I-beams — just south of Oak Allée. And, at left, Michael Majestic hangs "waves" of plastic sheeting as part of *Unda*, an installation in McMillan Courtyard designed to recall the flow of wind and water.

Darrow gift establishes Catholic professorship

By BARBARA REA

The Religious Studies program in Arts & Sciences will benefit from a \$1.5 million gift from Stella K. Darrow to establish the Stella Koetter Darrow Professorship in Catholic Studies.

The gift will significantly enhance the Religious Studies curriculum by complementing its current strengths in Jewish studies and Islamic studies.

In making the announcement, Chancellor Mark S. Wrighton said, "Through this very generous gift, Stella Darrow has made a

lasting contribution to scholarship in Religious Studies at Washington University, which will be felt for generations to come. We are grateful for her strong commitment to this important field, which will allow us to foster a deeper understanding of the historical, philosophical, theological and social impact of the Roman Catholic Church. And it will create new opportunities for greater interaction with the St. Louis Catholic community."

Ahmet T. Karamustafa, Ph.D., associate professor of history and of Religious Studies and director

of the Religious Studies program, said that the new chair will be a great addition.

"Attracting top-notch faculty has been a consistent goal of the program, and this new professorship will allow us to recruit a prominent scholar in the area of Catholicism," Karamustafa said. "Christianity is one of five areas of concentration in our program, and I am pleased that we can now strengthen its place in our curriculum. We are very grateful for this wonderful donation."

Student interest continues to

See **Gift**, Page 6

Faculty achievement awards Kornfeld, Schaal are 'outstanding choices'

By NEIL SCHOENHERR

A prominent molecular biophysicist and an authority on biology and life sciences will receive the University's annual faculty achievement awards.

The selections were announced April 20 at the Chancellor's Gala in Holmes Lounge in Ridgley Hall. The awards will be conferred at a public event in the fall.

Stuart A. Kornfeld, M.D., the David C. and Betty Farrell Distinguished Professor of Medicine and professor of biochemistry

and molecular biophysics in the School of Medicine, is this year's recipient of the Carl and Gerty Cori Faculty Achievement Award.

Barbara A. Schaal, Ph.D., the Spencer T. Olin Professor of Biology in Arts & Sciences, is this year's recipient of the Arthur Holly Compton Faculty Achievement Award.

"Professors Kornfeld and Schaal are both outstanding choices for the faculty achievement awards,"

Chancellor Mark S. Wrighton said. "Each has been recognized with

See **Achievement**, Page 5



This year's faculty achievement award winners are Stuart A. Kornfeld, M.D., the David C. and Betty Farrell Distinguished Professor of Medicine and professor of biochemistry and molecular biophysics; and Barbara A. Schaal, Ph.D., the Spencer T. Olin Professor of Biology in Arts & Sciences.

WU part of Internet2 consortium

Will enable access to Internet of the future

By TONY FITZPATRICK

A consortium has been formed joining three St. Louis research and higher educational institutions with SBC Communications Inc. enabling access to Internet2 (I2), a higher performance Internet that provides users with more sophisticated applications than the commodity Internet.

SBC Southwestern Bell will provide the access network for researchers, students and faculty at Washington University, Saint Louis University and the Donald Danforth Plant Science Center, who will take advantage of Internet2's many features.

All the institutions expect to be participating in I2 within the next several months.

I2 was begun in 1995 and today has more than 190 universities working in partnership with industry and government to develop and deploy advanced

See **I2**, Page 6

Waterston wins international Gairdner award

56 recipients have gone on to receive Nobel Prize

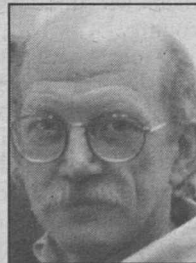
By DARRELL E. WARD

Robert H. Waterston, M.D., Ph.D., director of the Genome Sequencing Center in the School of Medicine, is one of eight scientists to receive the 2002 Gairdner International Award, which this year recognizes exceptional achievement in genomics science. The Gairdner Foundation of Toronto, Canada, announced the awards April 23. Each winner receives \$30,000.

Since 1959, the Gairdner International Awards have been presented to 255 scientists, 56 of whom have gone on to win the Nobel Prize. The award recognizes outstanding contributions by medical scientists whose work will significantly improve quality of life.

Waterston, together with Eric S. Lander, Ph.D., professor of biology at the Massachusetts Institute of Technology and head of the

See **Waterston**, Page 3



Waterston

Researcher traces gene development in 'last common link'

By ELLEN THOMPSON

A researcher studying the last common link between invertebrate and vertebrate animals has found a key genetic change that separates the spineless from the backboned.

Jeremy Gibson-Brown, Ph.D., assistant professor of biology in Arts & Sciences, studies amphioxus, a small marine worm. The primitive invertebrate species is the closest living invertebrate related to vertebrates like humans.

Gibson-Brown has found that a gene involved in the development of a body layer in invertebrates duplicated within the vertebrate lineage after the development of amphioxus. However, in vertebrates, this gene, *AmphiEomes/Tbr1*, gave rise to two genes, *Eomesodermin* and *T-brain-1*, involved in brain development.

While the vertebrate *Eomesodermin* gene has retained its original function in forming the mesoderm, or "middle skin" layer, in all vertebrate studies — from fish to amphibians to humans — the duplicate copy has lost that function and instead has evolved a role in forebrain development.

"This shows us how 'old' genes can give birth to new ones, and how the origins of novel developmental functions can be traced," said Gibson-Brown, who will have his results published in a forthcoming issue of *Molecular and Developmental Evolution*.

His next step will be to look for

these genes in lampreys, primitive jawless fish similar to the ancestors of later vertebrates.

"I want to see whether this gene duplication predated the separation of jawless fish and vertebrates and whether the role in forebrain development had yet been acquired," Gibson-Brown said.

Fruit flies, mice, worms and apes share an amazing amount of genetic information with humans and with each other. For instance, there is only one-tenth of one percent genetic variation between a human and a chimpanzee.

A field of research — called evolutionary development — has arisen to address what kinds of genetic changes over time have occurred in different species to account for so many physical differences despite such genetic similarity.

"Evo-devo," as Gibson-Brown affectionately refers to this budding discipline, combines the principles of traditional evolutionary and developmental biology in examining the change in gene sequence and regulation that over time lead to the development of new species and eventually new body plans.

"We seek to unravel the history of the evolution of developmental programs in animals," Gibson-Brown said.

Gibson-Brown is studying the evolution of T-box genes, a group of genes that encode transcription factors regulating gene

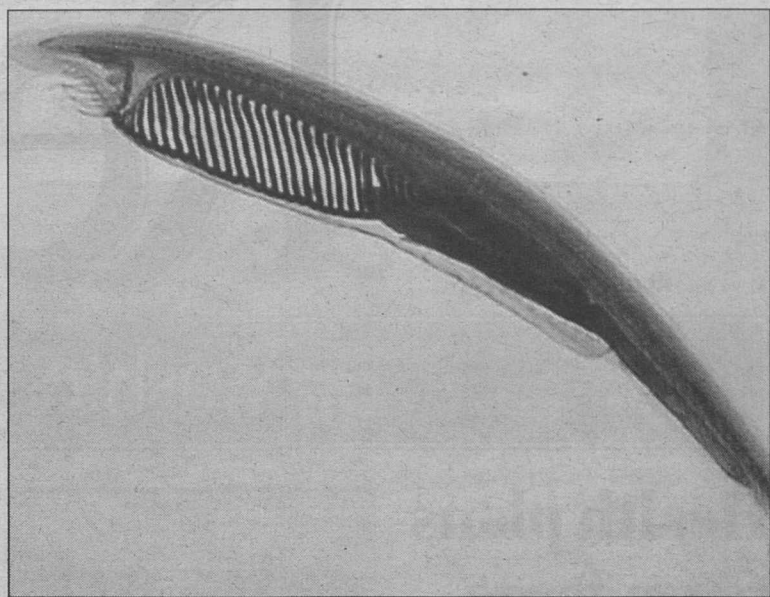
expression in embryogenesis, or the development of embryos. Simply put, T-box genes control when and where a particular gene is turned on (expressed) or turned off during the course of an animal's development.

The vast diversity of body plans seen in animals today — and of those who have lived in the past — are due in part to different expression patterns of these genes. T-box genes are present both in vertebrates and invertebrates, and therefore they offer valuable insight into the emergence of new developmental programs, and hence new body plans, during the course of evolution.

Amphioxus' last common ancestor with humans lived 600 million years ago. Amphioxus is the closest living invertebrate relative to the vertebrates, making it a very attractive target for Gibson-Brown's research.

He is interested in how these T-box genes, present in amphioxus, humans and everything in between, have adapted their function and expression patterns to yield such a vast array of body plans, from worms to mice to humans.

"What I've been looking at is where and when these T-box genes are expressed in the development of amphioxus in order to understand the function of those genes in the last common ancestor of amphioxus and humans,"



Amphioxus, a primitive invertebrate species shown here, is the closest living invertebrate related to vertebrates like humans. In his studies of this marine worm, Jeremy Gibson-Brown, Ph.D., assistant professor of biology in Arts & Sciences, has found that a gene involved in the development of a body layer in invertebrates duplicated within the vertebrate lineage after the development of amphioxus.

Gibson-Brown said.

He has just begun work with lampreys, a very primitive vertebrate and one of the last species of jawless fish still alive today. Because lamprey ancestors evolved relatively shortly after the divergence of vertebrates from invertebrates, they provide the next steppingstone in the story of T-box gene evolution.

By comparing the expression of T-box genes in the amphioxus, the

lamprey and the mouse, Gibson-Brown hopes to better understand the role that changes in gene regulation have played in the evolution of T-box genes.

"I want to understand the regulatory elements controlling the expression of T-box genes in different species, because the evolution of new developmental functions by genes is primarily achieved by the evolution of regulatory elements," he said.

Campus Watch

The following incidents were reported to University Police April 18-23. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This information is provided as a public service to promote safety awareness and is available on the University Police Web site at police.wustl.edu.

April 18

7:29 p.m. — A student reported that an unknown person stole his laptop computer from study room No. 117 in Simon Hall. The student said he left his belongings unattended for approximately 30 minutes. Total loss is estimated at \$2,300.

April 19

4:46 p.m. — A student reported that an unknown person stole her wallet from a table in the Mallinckrodt Student Center food court between 2:30-4 p.m. Total loss is estimated at \$30.

9:19 p.m. — A person reported that while helping a band load equipment into a van, he started

looking for his backpack. An unidentified person assaulted the person, thinking he was trying to steal the band's equipment.

April 21

8:34 a.m. — An unknown person(s) damaged the tires of several police and transportation vehicles that were parked on the upper level of Wohl Garage. Three transportation vehicles and two police vehicles were damaged by what appears to have been a pocketknife or similar instrument.

11:03 a.m. — A student reported that her course book and some notes were taken from

her book bag, which she left unattended in a study room in Wheeler House between 8 p.m. April 20 and 9 a.m. April 21.

April 22

1:19 p.m. — A student reported that sometime between 3 a.m.-1:10 p.m., an unknown person broke the back window of his vehicle, which was parked in Lien Garage.

Additionally, University Police responded to six reports of property damage, five reports of larceny, three judicial violations, two reports of disturbances, one assault and one report of telephone harassment.

Graduate student satisfaction evident in survey results

By ANDY CLENDENNEN

It's difficult to learn if you aren't happy.

And in a recent groundbreaking survey, it looks like most graduate and doctoral students at Washington University are more satisfied than their counterparts across the country.

More than 32,000 graduate and doctoral students recently graded doctoral programs throughout the country in an online survey conducted by the National Association of Graduate-Professional Students.

Students graded their program's implementation of educational practices recommended by the National Academy of Sciences, the Association of American Universities and several other educational leaders.

Respondents ranked nine University programs in the top three in overall satisfaction. The anthropology and German departments, both in Arts & Sciences, each ranked No. 1 in their peer groups.

Romance languages in Arts & Sciences, and genetics, immunol-

ogy and microbiology in the School of Medicine ranked No. 2. Psychology and history, both in Arts & Sciences, and the George Warren Brown School of Social Work ranked No. 3.

"I was delighted, but I wasn't surprised," said Robert E. Thach, Ph.D., dean of the Graduate School of Arts & Sciences. "We've worked hard in addressing the concerns of our graduate students; that has been a hallmark of Washington University. I was delighted to see that our efforts have made a difference."

The online survey was the first of its kind. It showed that students are most satisfied in doctoral programs where they have the freedom to pursue a broad range of career options. A particular area of concern among most students in the survey is the lack of information about the career outcomes of former students.

Thach said it wasn't surprising that nearly every graduate program at the University finished in the top 50th percentile of its peer group.

"We've worked hard to address

every concern that has come to our attention" Thach said, "from housing to the quality of advisers and full funding. We are the only university in the country that awards Ph.D. candidates funding for six years as tuition assistance or cost-of-living assistance."

Still, despite the overall satisfaction rate, Thach said improving the quality of life and programs is an ongoing process.

"The next step is to begin to implement some of the ideas that the deans of the eight schools have put forward," Thach said. "Recruiting students from underrepresented minorities is a big push for us. The first wave of an expanded effort was last June, and the second round will be this June when we bring to campus some 80-100 college-rising seniors who are thinking about graduate or professional schools. We also want to find a new space for graduate student organizations."

"The bottom line is that while this survey result is great news, we can still do more."

Report cards for more than 1,300 doctoral programs generated from the survey results are available online at survey.nagps.org.

Wrighton reaffirms commitment to equal employment opportunity

In this letter to the Washington University community, Chancellor Mark S. Wrighton reaffirms the University's commitment to equal opportunity and cultural diversity.

Washington University is committed to the maximum utilization of all human resources and the goal of equal opportunity. I wish to reaffirm that commitment and bring to your attention that these objectives are reflected in all aspects of our daily operations. We shall continue to recruit, hire, train and promote persons in all job titles without regard to race, color, age, religion, gender, sexual orientation, national origin, veteran status or disability.

Every effort shall be made by our management team to ensure that all employment decisions, University programs, and personnel actions are administered in conformance with the principles of equal employment opportunity. In addition, managers shall take affirmative action to ensure that women and minorities, Vietnam-era and special disabled veterans, and the disabled are introduced into the workforce and that these employees are encouraged to aspire for promotion and are considered as opportunities for promotion arise. Each vice chancellor, dean, faculty member,

director, manager, supervisor, and staff member has a responsibility to support these objectives and to ensure that this policy is fully implemented within our organization.

I have designated the Director of Employee Relations, Lorraine A. Goffe-Rush, as the University's EEO Coordinator and have charged her with the responsibility to maintain the necessary programs, records and reports to comply with all government regulations, including the maintenance of monitoring procedures for our policy objectives.

We share the responsibility to strive for excellence in our teaching, research, service and patient care missions. Therefore, we must each assume a leading role in making our Equal Employment Opportunity policy work effectively. I encourage each member of the Washington University community to join me in advancing an educational and employment environment in which each person is encouraged to contribute and develop to his or her fullest potential.

Mark S. Wrighton

Record

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 Washington University in St. Louis

School of Medicine Update

Beebe named Janet and Bernard Becker professor

BY JIM DRYDEN

David C. Beebe, Ph.D., has been named the new Janet and Bernard Becker Professor of Ophthalmology in the School of Medicine.

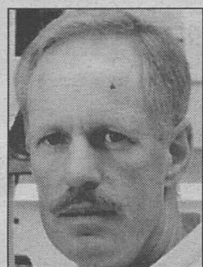
Announcement of the appointment was made by William A. Peck, M.D., executive vice chancellor and dean of the School of Medicine.

"Endowed chairs allow us to recognize outstanding individuals and to support their important contributions to research, and David Beebe is a superb candidate for such recognition," Peck said. "But this professorship also stands as a tribute to the legacy and generosity of Bernie and Janet Becker. Dr. Becker's glaucoma research and his record as a teacher and administrator are unsurpassed, and together with Janet, the Beckers' work in the community is legendary. This professorship recognizes their commitment to education and scientific research in general, and to Washington University in particular."

The Beckers have a long history of involvement with education, the arts and social causes in St. Louis. The Becker Professorship is an endowed chair in the Department of Ophthalmology and Visual Sciences, one of two chairs originally instituted in 1983 in recognition of the service and leadership of Bernard Becker, M.D., professor emeritus and head of ophthalmology.

"The Beckers have been

instrumental to the Department of Ophthalmology and Visual Sciences for half a century, and the professorships endowed in their names will continue to advance the cause of vision research in perpetuity," said Michael A. Kass, M.D., current head of the department and a



Beebe: Studies causes of cataracts

former resident under Becker.

"David Beebe's research will continue the tradition of scientific inquiry that has thrived for so long under Bernie

Becker's leadership here."

Beebe came to the School of Medicine in 1995. Also a professor of cell biology and physiology, he is director of the medical school's Cataract Research Center, one of the largest groups in the world working on the biology and pathology of cataracts, the number one cause of blindness in the world. Each year, the Medicare program alone spends more than \$3.4 billion on cataract surgery. It is the most common surgical procedure performed in the United States. Treatment of secondary cataracts, a condition that occurs frequently after cataract surgery, also is very common.

Beebe studies both the development of the lens and the

age-related changes in the lens that may contribute to cataracts, an eye disease that most people get as they reach old age. Recent research, however, has put Beebe on the trail of a previously unacknowledged cause of cataracts.

"We know that as we age, the lens becomes more susceptible to developing cataracts," Beebe said. "But recently, our lab has found that the main cause of the most common type of cataract probably is in a different part of the eye."

In a lecture delivered as part of the official ceremony to recognize him as the Becker Professor, Beebe reported preliminary findings that a breakdown in the vitreous body — a gel-like substance between the eye's lens and its retina — may allow too much oxygen to come into contact with the lens. Already at risk for cataract, the aging lens is less able to resist the stress caused by the extra oxygen, and a cataract forms.

"This is a completely new concept of how cataracts form," Beebe said. "We hope to follow this line of inquiry in the years

to come, and I am grateful that the Becker professorship will support this work in the future. I also am particularly grateful that my name will be associated with the names of Bernie and Janet Becker, two people whom I admire greatly."

Beebe came to Washington University after serving as a professor and chairman of the Department of Anatomy and Cell Biology in the Uniformed Services University of the Health Sciences (USUHS) in Bethesda, Md. Before joining the USUHS, he conducted eye research at the National Institutes of Health.

In 1966, he earned a bachelor's degree in zoology from the University of Rhode Island. He completed a master's degree in biomedical sciences at Brown University in 1969 and a doctorate in biology from the University of Virginia in 1974.

Beebe is a former president of the Association for Research in Vision and Ophthalmology (ARVO), the world's largest vision research organization. He also is a member of the American Society for Cell Biology, the Society for Developmental

Biology and the International Society for Eye Research.

Bernard Becker headed the Department of Ophthalmology and Visual Sciences at Washington University School of Medicine from 1953-1988. During that time, the department became internationally known both for exceptional research and teaching. Many residents who trained with Becker now serve as department heads or hold other prominent positions in academic ophthalmology throughout the country.

Janet Becker has given her time, leadership and drive as an advocate for affordable housing for low-income individuals in the St. Louis area. She helped create both the Ecumenical Housing Production Corporation and Adequate Housing for Missourians (AHM). She also created, staffed and raised funds for the Rental Assistance Loan Fund for AHM and was instrumental in creating both the Housing Resources Commission of St. Louis County and the Missouri Housing Trust Fund. Last year, she was a leader in creating trust funds for housing and health care in St. Louis.

Sansone memorial lectureship established

The Peggy Sansone memorial lectureship was created by a gift from the Peggy Sansone Special Angel Foundation, which was founded in honor of Peggy Sansone, the late wife of Anthony F. Sansone Jr.

C. Robert Cloninger, M.D., the Wallace Renard Professor of Psychiatry, professor of genetics and director of the Center for the Psychobiology of Personality in the School of Medicine, delivered the first of these annual lectures April 23 at Clopton Auditorium.

The lectureship will provide an opportunity for scholarly updates about what Cloninger calls the "science of well-being." Cloninger

hopes to recruit speakers who will address topics associated with the prevention and treatment of depression and the role of spirituality in personality development.

"The series of lectures will be dedicated to scientific consideration of the proposition that we are physical, mental and spiritual beings and that neglecting any of those aspects can lead to conflict and contradiction," Cloninger said. "To promote and maintain well-being, scientists must concentrate not only on the biological but also on other aspects of personality, including the psychological and the spiritual."

Waterston

— from Page 1

Whitehead Institute Center for Genomic Research in Cambridge, Mass., and Sir John E. Sulston, Ph.D., founder of the Sanger Institute in Cambridge, UK, were recognized for their "major seminal contributions to sequencing of human and other genomes."

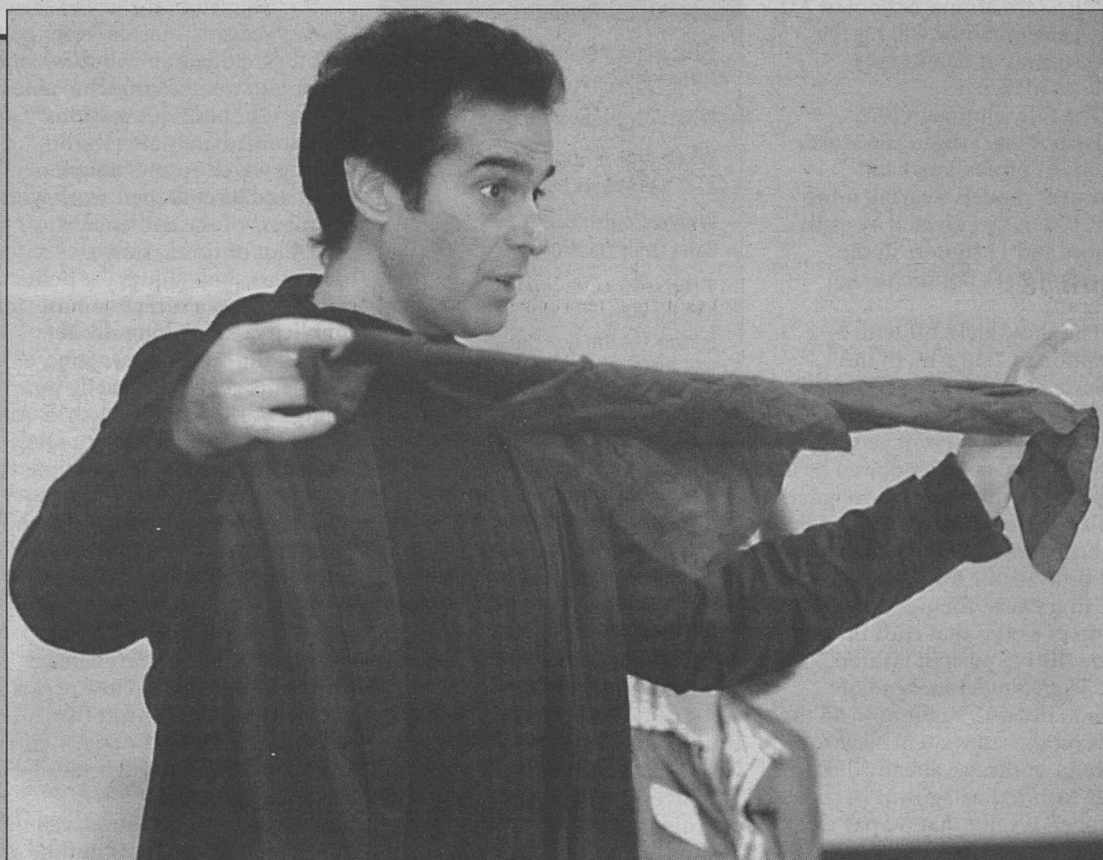
Waterston was instrumental in initiating and bringing to fruition the international Human Genome Project, the effort to identify and map the structure of the DNA in every gene of every human chromosome. A draft version of the genome, available to all without constraint, was published in the journal *Nature* in February 2001. The information provides a genetic blueprint of the makeup of human beings and will help in research to identify the genetic abnormalities responsible for cancer, birth defects and a variety of other human diseases.

In the 1970s and '80s, Waterston, the James S. McDonnell Professor and head of

the Department of Genetics in the School of Medicine, helped establish the roundworm, *Caenorhabditis elegans*, as a powerful experimental organism. Waterston and Sulston subsequently collaborated to successfully sequence the 97 million genetic letters in the worm's DNA. The work marked the first time that all the genes of an organism of more than one cell had been sequenced and mapped and demonstrated the feasibility of sequencing the human genome.

The project also marked the founding of Washington University's Genome Sequencing Center by Waterston. In addition to its work on the international Human Genome Project and the worm genome, the center has played leading roles in the sequencing of numerous other genomes. It also has been a major contributor of expressed sequence tags to public databases.

The award will be presented at the annual Gairdner Foundation dinner, which takes place in October each year and is usually preceded by a national symposium featuring the year's Gairdner International Award winners.



Abracadabra! David Copperfield teaches therapists and students how to use magic for patient rehabilitation through Project Magic, a nationwide program for hospitals and medical schools. The School of Medicine's Program in Occupational Therapy and the Rehabilitation Institute of St. Louis sponsored the program, which was held April 20 at the 4444 Forest Park Building.

Gene mutation influences filtering of blood by kidneys

BY DARRELL E. WARD

School of Medicine researchers have uncovered new information about a gene that when mutated prevents the kidneys from filtering properly. The mutation causes a rare disorder known as nail-patella syndrome, which frequently involves kidney abnormalities.

"This gene, known as *Lmx1b*, regulates production of other proteins that are required for normal kidney function," said Jeffrey H. Miner, Ph.D., assistant professor of medicine and of cell biology and physiology and lead author of the paper. "Our findings should improve the understanding of nail-patella syndrome and of kidney function and failure."

The findings appeared in the April 15 issue of *The Journal of Clinical Investigation*.

Using mice, the study found that mutations in the *Lmx1b* gene

cause a reduction in levels of two proteins known as CD2AP and podocin. Both proteins are necessary for kidney cells known as podocytes to mature and function properly.

Podocytes form the filtering mechanism within the kidneys. Mature podocytes have long branching strands that entwine capillaries within the kidneys. Normally, these strands work with strands from neighboring cells to form a molecular meshwork, or slit diaphragms, that probably work like sieves or strainers.

"Slit diaphragms allow water and dissolved toxins like urea to leave the bloodstream while holding back protein molecules the body needs in the blood," Miner said. Much of the water is reabsorbed by the kidney and the rest, along with the urea, is collected and expelled as urine.

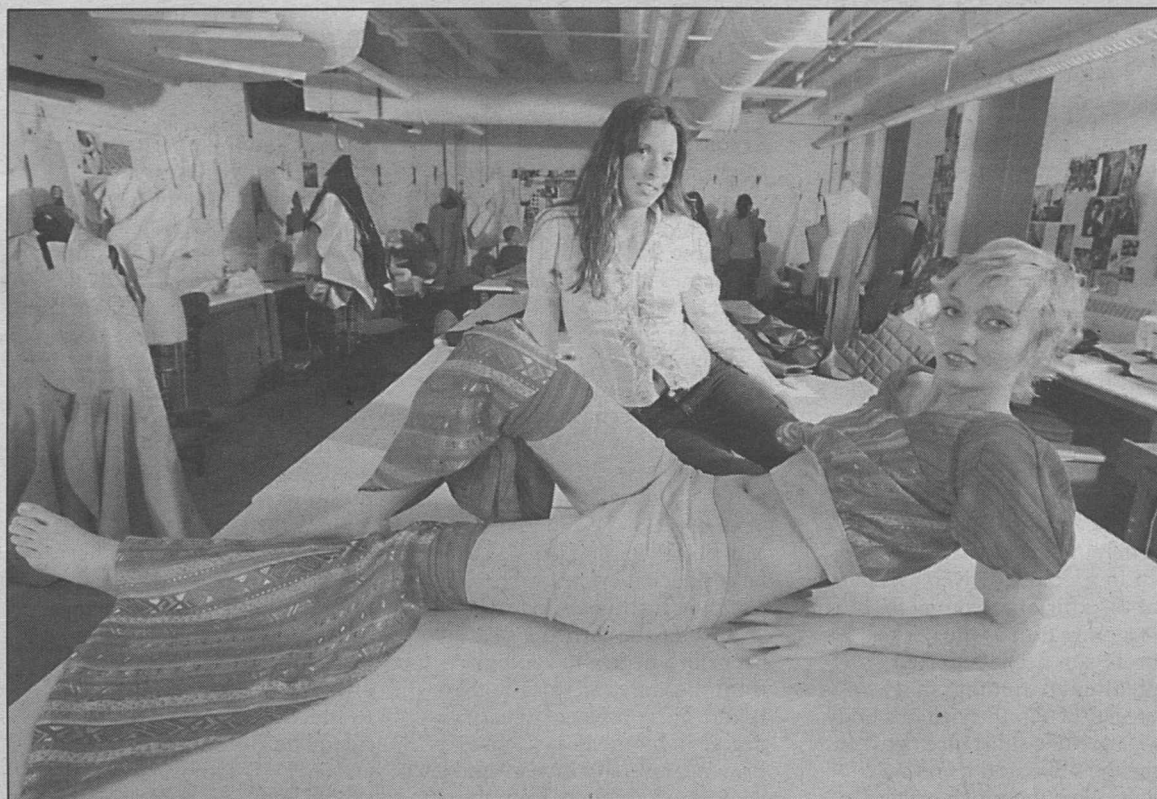
The study showed that

podocytes from mice with the *Lmx1b* mutation have the appearance of immature podocytes and lack the ultrafine filter. "This helps explain why people with *Lmx1b* mutations and nail-patella syndrome can have kidney problems," Miner said.

Exactly how mutations in *Lmx1b* cause nail-patella syndrome remains poorly understood. The syndrome, which has an incidence of 4.5 cases per million people, typically causes somewhat misshaped elbows, under-formed kneecaps (patella), and pitted, wrinkled or misshaped fingernails. These abnormalities occur to different degrees in people with the syndrome.

About 30 percent of people with nail-patella syndrome also have kidney problems, which can range from small amounts of blood or protein in the urine to progressive kidney failure.

University Events



Model Shannon Crowley (front) of Raspberry modeling agency dresses up the fashion program's Bixby Hall studio with Guatemalan-inspired sportswear by senior Cynthia Phillips (back). Couture creations such as this will be featured in the School of Art's 73rd annual Fashion Show, which begins at 8 p.m. May 5 at the Saint Louis Galleria and will feature outfits by the fashion program's 11 juniors and eight seniors.

73rd annual Fashion Show May 5

By LIAM OTTEN

The 73rd annual School of Art Fashion Show will hit the runway at Saint Louis Galleria May 5.

The fully choreographed, Paris-style extravaganza features dozens of professional and volunteer models wearing more than 100 outfits created by eight seniors and 11 juniors in the School of Art's fashion design program.

The show kicks off with a reception at 7:30 p.m. in the Galleria's Garden Court, located near the entrance to Lord & Taylor. The main event gets under way at 8 p.m. and is followed by a dessert reception for the designers and audience, during which many of the featured couture creations will be available for purchase.

"Every year, there's something we do as a class that ends up also being the big push in fashion," said Leigh Singleton, head of fashion design. "Right now, all the buzz on the runways in New York is about quilts; we already did quilt-inspired ball gowns back in October. It's not that we pay any attention to fashion forecasts, it just happens that way."

Aside from quilts, themes this year include "Think Pink" (from the famous dance number in Audrey Hepburn's 1957 film *Funny Face*), tropical sportswear, dress groups and theater coats and gowns. As in previous years, the highlight of the evening will be the seniors' signature collections, in which each student creates a fully realized line of clothing, with the grand finale being a single wedding dress, selected by competition.

"These people are wearing high heels, but you have to understand, they're working," Singleton quipped, referring to the dozens of designers, models, technical staff and supporters involved.

The Fashion Show is chaired by 1976 alumna Susan Block and organized by a committee of volunteers. Clothing is chosen by a jury of professional designers, University faculty and leaders in the clothing industry.

Outstanding student designers are recognized with a variety of scholarships, cash prizes and awards. Last year, more than 500 people attended the event.

This also marks the eighth year of collaboration between Washington University and Saint Louis Galleria. Singleton believes the

Fashion Show

Who: School of Art's Fashion Design Program

What: 73rd annual event

When: May 5; doors open at 7:30 p.m., show begins at 8 p.m.

Where: Garden Court, Saint Louis Galleria

Tickets: \$50 for general seating, \$25 for students. Available at the Edison Theatre Box Office, 935-6543, and at the Galleria Concierge Service Center. Additional tickets will be available at the door.

Sponsors: School of Art and Saint Louis Galleria

For more information, call 935-9090.

The models' makeup will be done by MAC.

For Singleton, the key to the show's success — aside from "clothes, clothes and clothes" and sheer glitzy entertainment value — are the "boutique sessions" held immediately afterward, during which young designers meet and discuss their work with members of the audience.

"A lot of times, runway designers show things for political reasons — to shock, to amuse, for publicity," Singleton said. Yet during the boutique sessions, "students get to see exactly how things work in the real world. And when they actually make a sale, it's the most wonderful validation. It says, 'You're doing fine, you're making something that somebody wants to wear.'"

"That's what this show is all about."

Tickets are \$50 — \$25 for students — and are available through the Edison Theatre Box Office, 935-6543, and at the Galleria Concierge Service Center. Additional tickets will be available at the door.

For more information, call the 24-hour Fashion Show hotline at 935-9090.



Senior Haley Leibowitz (left) with Tiffany Watson of Talent Plus agency, who models Leibowitz's quilt-inspired off-the-shoulder taffeta ballgown.

Developmental Biology • From Bench to Bedside

"University Events" lists a portion of the activities taking place at Washington University April 26-May 8. Visit the Web for expanded calendars for the Hilltop Campus (www.wustl.edu/calendar) and the School of Medicine (medschool.wustl.edu/calendars.html).

Exhibitions

"Typoetica: Typographic Poetry Broad-sides, Kinetic Books, & More." Robert C. Smith, prof. emeritus of art. Through April 26. Olin Library, Lvl. 5, Special Collections. 935-5495.

Lectures

Friday, April 26

9:15 a.m. Pediatric Grand Rounds. "Orbital Complications of Sinusitis." James Forsen, asst. prof. of otolaryngology. Clopton Aud., 4950 Children's Place. 454-6006.

3 p.m. Works in Process Seminar Series. "The Lady Who Swung the Band": Mary Lou Williams, Jazz Style, and the 'Heavenly City.'" Amy Bauer, asst. prof. of music. Sponsored by the Women's Studies Program. Eads Hall, Rm. 103. 935-7479.

4 p.m. Anatomy and Neurobiology seminar. Jeffrey Laitman, prof., of anatomy and functional morphology and of otolaryngology. Mount Sinai School of Medicine, N.Y. McDonnell Medical Sciences Bldg., Rm. 928. 362-7043.

4 p.m. Biology lecture. Annual Viktor Hamburger Lecture. "Concepts and Experiments in Evolutionary Developmental Biology." Gerd B. Müller, U. of Vienna and Konrad, Austria, Lorenz Inst. for Evolution and Cognition Research. Rebstock Hall, Rm. 215. 935-6812.

Monday, April 29

Noon. Lung Biology Conference. "ECG Receptor Signals That Control Differentiation of Ciliated Epithelial Cells." Kyotaro Ide, research assoc. in pulmonary and critical care medicine. Clinical Sciences Research Bldg., Rm. 801. 362-8983.

Noon. Neurology seminar. John McDonald, asst. prof. of neurology. Schwarz Aud., Maternity Bldg., 1st floor. 362-7316.

4 p.m. Immunology Research Seminar Series. "Immunoreceptor Signaling." Lawrence Samelson, chief, center for cancer research, National Cancer Inst., National Inst. of Health, Eric P. Newman Education Center. 362-2763.

4 p.m. Neurology lecture. Inauguration of the Donald O. Schnuck Family Chair in Neurology for Neurofibromatosis Research. "Neurofibromatosis 1: From Bench to Bedside." David H. Gutmann, Donald O. Schnuck Family Professor of Neurology, Eric P. Newman Education Center, Seminar Rm. B. 747-0437.

Tuesday, April 30

8:15 Annual Digestive Disease and Nutrition Centers Symposium. "Nutrition and Liver Disease." Sponsored by Washington U. School of Medicine Continuing Education and Barnes-Jewish Hospital Foundation. Eric P. Newman Education Center. 362-2031.

Noon. Tuesday Conference Seminar. "We Know Each Other Pretty Well After 40 Years: Examining Spouse Congruence in Dementia." Brian Carpenter, asst. prof. of psychology. Barnes-Jewish Hosp. Bldg., East Pavilion Aud. 286-2881.

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "Phages Will Out: Molecular Mechanisms of Host Lysis." Ryland Young, prof. of biochemistry and biophysics, and of biology, Texas A&M U. Cori Aud., 4565 McKinley Ave. 362-3692.

4 p.m. Neurology lecture. George H. Bishop Lecture in Experimental Neurology. "Alpha-synuclein Inclusions: The Third Amyloid in Alzheimer's Disease." Virginia M.-Y. Lee, John H. Ware III Professor in Alzheimer's Research, co-dir., Center for Neurodegenerative Disease Research, U. of Penn. School of Medicine. McDonnell Medical Sciences Bldg., Erlanger Aud. 747-0437.

Thursday, May 2

2 p.m. Physics seminar. "Formation and Diffusion of Point Defects in Paratellurite by 125Te NMR and Electrical Conductivity." Otmär Kanert, prof. of experimental

solid state physics, U. of Dortmund, Germany. 935-6276.

4 p.m. Chemistry Seminar Series. Paul Barbara, prof. of analytical, materials, and physical chemistry, U. of Tex, Austin. McMillen Lab., Rm. 311. 935-6530.

4 p.m. Ophthalmology and Visual Sciences Seminar Series. "Lamina-selective Synapse Formation in the Retina and Tectum." Joshua Sanes, Alumni Endowed Professor of Anatomy and Neurobiology. Barnes-Jewish Hosp. Bldg., East Pavilion Aud. 362-1006.

Friday, May 3

Noon. Cell Biology & Physiology Seminar Series. "The Mitotic Regulator Securin: Can't Separate With It, Can't Separate Without It." Orna Cohen-Fix, investigator, lab. of molecular and cellular biology, National Inst. of Health, Bethesda, Md. McDonnell Medical Sciences Bldg., Rm. 426. 362-6950.

4 p.m. Neuroscience seminar. Vivian Budnik, prof. of biology, U. of Mass. McDonnell Medical Sciences Bldg., 362-7043.

6 and 8:30 p.m. Travel Lecture Series. Burma and Vietnam. Rick Ray. Cost: \$5. Graham Chapel. 935-5212.

Sunday, May 5

7:30 p.m. Fashion Show. Sponsored by the Washington U. School of Art's Fashion Design Program. Cost: \$50, tickets available at Edison Theatre Box Office. Saint Louis Galleria, Garden Court. 935-9090.

Monday, May 6

4 p.m. Immunology Research Seminar Series. "Engineering a Better MHC-I Molecule for Stimulating Specific Immunity." Ted Hansen, prof. of genetics, Eric P. Newman Education Center. 362-2763.

Tuesday, May 7

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "The Role of Lipids and Lipid Secretion in the Pathogenesis of *Mycobacterium tuberculosis*." Clifton E. Barry, III, chief, tuberculosis Research Section, Lab. of Host Defenses, National Inst. of Health, Cori Aud., 4565 McKinley Ave. 362-8873.

4 p.m. Chemistry Seminar Series. Stefan Franzen, prof. of biophysical and biological chemistry, N.C. State U., Raleigh. 935-6530.

Music

Friday, April 26

8 p.m. Washington University Opera. *Gianni Schicchi*, written by Puccini, and scenes from Mozart's *Don Giovanni* and Bellini's *Norma*. Jolly Stewart, dir. (Also April 27, 8 p.m.). Karl Umrath Hall Lounge. 935-4841.

Sunday, April 28

3 p.m. Guitar recital. Music of Bach, Dowland, and De Falla. Leon Barrett. Graham Chapel. 935-4841.

Monday, April 29

7 p.m. Concert. *The Harp the Monarch Minstrel Swept*, written by Harold Blumenfeld, prof. emeritus of music. Sponsored by the St. Louis Circle of Jewish Music. B'nai Amoona Temple, 324 S. Mason Road. 576-9990.

Sports

Saturday, April 27

12:30 p.m. Baseball vs. Case Western Reserve. Kelly Field. 935-4705.

Noon. Softball vs. Maryville U. Softball field. 935-4705.

2 p.m. Softball vs. Blackburn College. Softball field. 935-4705.

Sunday, April 28

12:30 p.m. Baseball vs. Case Western Reserve. Kelly field. 935-4705.

Saturday, May 4

11 a.m. Softball vs. Webster U. Softball Field. 935-4705.

Sports



Bears junior Brooke Lane (right) claimed the 10,000-meter crown again this year at the University Athletic Association meet April 19-20 at Emory University. Lane won the race in 39 minutes, 56.77 seconds and helped pace the women to their third straight UAA championship.

Women's track & field nabs 3rd straight title

The women's outdoor track and field team brought home top honors in 11 of 20 events en route to its third straight University Athletic Association championship April 19-20 at Emory University. The Bears finished with 210 points, 44 ahead of second-place Emory. Senior Jennifer Shew, the 2002 Outdoor Athlete of the Meet, took home top honors in the 100 meters and the 200 meters. Brooke Lane repeated as UAA champion in the 10,000 meters. Other winners included Elizabeth Stoll (high jump), Sarah Springer (pole vault), Hallie Hutchens (100-meter hurdles), Lindsey Clark-Ryan (triple jump), Kammie Holt (long jump) and Mindy Kuhl (1,500 meters). The 4x100 relay team finished first, as did the 4x400 relay team. On the men's side, Washington U. placed first in three events as the Bears finished third with 139 points. Emory won the men's title with 179 points. Lance Moen earned UAA Outdoor Rookie of the Year honors by winning the 400

meters. Matt Wallace took first in the 200 meters, and the 4x100 relay team also won.

Other updates

The No. 11 **men's tennis** team began the week by dropping its second straight match, a 5-4 decision at the University of Missouri-St. Louis. The No. 2-seeded Bears then opened the 2002 UAA Championship by knocking off No. 7 Brandeis University, 9-0, and followed it with a victory over No. 3 seed New York University as the Bears claimed four of six singles matches and two of three doubles matches. The win set up a matchup with third-ranked and top-seeded Emory, which won three of the five completed singles match while winning the only completed doubles match. With the loss, the Bears dropped to 11-4 and claimed their fifth straight second-place finish at the UAA Championship.

The **softball** team played only two games but managed to post doubleheader sweep at MacMurray College April 18. In the first game, Victoria Ramsey pitched her 14th complete game

of the year as the Bears pounced on the Highlanders, 8-2. Ramsey struck out nine batters and walked none as she improved to 12-4 on the season. In Game 2, Lorri Fehlker tossed a six-hit shutout in a 7-0 win.

The **baseball** team saw its losing streak hit five games as the Bears fell in their only contest last week, 11-7 at Illinois Wesleyan University April 18. Kirk Heischmidt, Ramos Mays and Graham McBride each had two hits, but they weren't enough to overcome an early 7-0 deficit.

Fresh off its climb to No. 9 in the national rankings, the **women's tennis** team posted a 3-1 record last week en route to a runner-up finish at the UAA Championships. The Bears defeated Southern Illinois University at Edwardsville, 8-1, on April 16 to start the week. WU then went 2-1 at the UAA Championships, defeating Case Western Reserve University in the first round, 9-0, and the University of Rochester, 6-1, in the semifinals, before falling 5-0 to Emory in the championship match.

Native American social welfare systems symposium May 21-23

By JESSICA N. ROBERTS

The Kathryn M. Buder Center for American Indian Studies at the George Warren Brown School of Social Work will present a symposium, "Capacity Building and Sustainability of Tribal Governments: The Development of Social Welfare Systems Through Preferred Futuring," May 21-23 at the Charles F. Knight Executive Education Center.

The symposium will provide an environment and process that generates creative thinking, debate and the development of future options for the reformation of social welfare systems in Indian Country.

"The two-day symposium is designed to move participants beyond the day-to-day welfare problems to think in more holistic terms regarding the future welfare and sustainability of tribal communities," said Eddie F. Brown, D.S.W., associate dean and director of the Buder Center. "The agenda is structured to provide a process in which 30 select tribal leaders, administrators and policy advocates will be convened and encouraged to address tribal welfare issues in a longer-term, 'whole-systems' way of thinking. Through brainstorming, critical thinking and consensus building, a 'preferred future' social welfare strategy will be developed to assist tribal governments in setting goals and initiating change."

The current list of participants and their papers are: Eddie F. Brown, "Framing the Future: Trends That Will Impact Indian Country's Social Welfare System"; Stephen Cornell, Ph.D., director of the University of Arizona's Udall Center for Studies in Public Policy, "Building Institutional Capacity to Manage Tribal Social Welfare Systems"; Jack Tweedie, director of the National Conference of State Legislatures' Children and Families Program, "Tribal/State/Federal Relations"; and Kathleen Earle, Ph.D., associate professor at the University of Southern Maine's Institute for Child and Family Policy, "Collecting Tribal Data: Current and Future Direction."

Additional symposium participants include: Don Shircel, director of family services, Tanana Chiefs Conference; Bobby Whitefeather, chairman of the Red Lake Band of Chippewa Indians; Teresa McDonald, director of human resources for

the Confederated Salish and Kootenai Tribes; John McCoy, executive director of intergovernmental relations;

Robert Chicks, president of the Stockbridge-Munsee Band of Mohican Indians; Mark Lewis, program director of behavioral health and social services; Jim Nordland, director of Alaska's Division of Public Assistance; Jim Olson, tribal liaison for the Minnesota Department of Human Services;

Eileen Sweeney, Center on Budget and Policy Priorities; Alex Yazza, Temporary Assistance for Needy Families (TANF) director for the Navajo Nation; Eli Hunt, chairman of the Leech Lake Band of Ojibwe; David Gipp, president of the United Tribes Technical College; Alvin Windy Boy, senior chairman of the Chippewa-Cree Tribe of the Rocky Boy Indian Reservation; Jacqueline Johnson, executive director of the National Congress of American Indians;

Virginia Hill, executive director of the Torres Martinez Tribal TANF; Terry Ross, administrator of the San Carlos Apache Tribal Social Services; John G. RedHorse, American Indian studies at the University of Minnesota-Duluth; Wes Martel, Eastern Shoshone Business Council; Brian Wallace, chairman of the Washoe Tribe of Nevada and California; Ray Lasley, Osage Tribe TANF administrator; and, Kathy Larin, senior analyst from the U.S. general accounting office.

In addition to Brown, Miriam Jorgensen, Ph.D., research director of the Harvard Project on American Indian Government and associate director for research at the University of Arizona's Native Nations Institute, and doctoral candidate Sarah Hicks, director of the Welfare Reform Program, National Congress of American Indians, coordinated the symposium.

All sessions will be videotaped for later use in drafting a national report, classroom teaching and tribal presentations and workshops.

Copies of the symposium report also will be distributed to interested tribal governments, national tribal organizations and federal and congressional offices.

For more information about the symposium, e-mail Debbie Geddes at debbieg@gwbssw.wustl.edu.

Achievement

Kornfeld, Schaal to receive faculty awards

— from Page 1

other major awards and appointments to endowed professorships on the basis of their scholarly achievements, and their career contributions thus far are truly exceptional. They join a distinguished group of earlier recipients of the awards. The University is fortunate to have such outstanding leaders as members of its faculty.

"It is noteworthy, of course, that these awardees have been selected by distinguished members of the faculty. Such recognition by one's peers is

especially significant and prized."

The selection committee included three members each from Arts & Sciences and the medical school and one member from each of the University's other six schools.

Criteria for selection are:

- Outstanding achievement in research and scholarship;
- Recognized prominence within the community of scholars;
- Service and dedication to the betterment of the University; and
- Respected accomplishment in teaching.

The award includes a \$5,000 honorarium. Kornfeld and Schaal will address the University community at an awards ceremony next fall, summarizing their scholarly work.

Kornfeld's accomplishments as a teacher, physician and researcher have demonstrated a lifelong commitment to the University. He co-directs the Division of Hematology in the School of Medicine.

During his years at the University, he has made groundbreaking discoveries about how sugar chains direct the movement of proteins within cells. Much of his research has been conducted in collaboration with his wife, Rosalind H. Kornfeld, Ph.D., professor of medicine and of biochemistry and molecular biophysics.

He is best known for discovering how lysosomal enzymes are routed to lysosomes, structures that digest materials that are to be eliminated by the cell.

As an engaged and active teacher, Kornfeld has trained many doctoral and post-doctoral students in hematology and oncology. In addition, he directed the Medical Scientist Training Program from 1991-97. He has spent countless hours mentoring and counseling medical students.

Kornfeld earned a medical degree from the School of Medicine in 1962 and joined the

University faculty four years later. He became professor of medicine in 1972 and of biochemistry in 1976.

He has been recognized and honored for his groundbreaking research with memberships in the National Academy of Sciences, the Institute of Medicine, the American Academy of Arts and Sciences and the Association of American Physicians. He was awarded the Passano Award in 1991 and the Karl Meyer Award in 1999.

Schaal is a distinguished scientist, an excellent teacher and an active participant in the University community.

She came to the University in 1980 as associate professor in biology. In July 1989, she became full professor, and recently she was named to the Olin professorship.

In 1999, Schaal was elected into the National Academy of Sciences, an honor that recognized her research investigating the evolutionary process within plant populations using a wide variety of techniques, from field observations to quantitative genetics and molecular biology.

As a teacher of a wide range of courses in the department, Schaal was instrumental in jointly

offering a seminar to freshmen on "Lewis and Clark and the American Experience" with colleagues from English and history departments, both in Arts & Sciences. This course is part of the University's highly acclaimed and successful Hewlett Program, which offers freshmen the opportunity to work in small groups with distinguished faculty members.

Schaal earned a bachelor's degree in 1969 with honors in biology from the University of Illinois at Chicago; and a master's in 1971 and a doctorate in 1974, both in population biology, from Yale University.

Schaal has served as chair of the biology department and has served on numerous committees, including the Academic Planning Committee in Arts & Sciences; the Curriculum Implementation Committee, and the University Affirmative Action Committee. She currently serves on the National Research Council's (NRC) Board on Life Sciences and she chairs the NRC Standing Committee on Agricultural Biotechnology.

Tony Fitzpatrick and Darrell E. Ward also contributed to this story.

Worship

Friday, April 26

11:15 a.m. Catholic Mass. Catholic Student Center, 6352 Forsyth Blvd. 935-9191.

1:15 p.m. Jummuah Prayers. Prayer service. Lopata House, lower lvl. 920-1625.

And more...

Tuesday, May 7

Noon- 1 p.m. Toastmasters event. Washington University Toastmasters for Oratorical Readiness (WUTFOR). 4480 Clayton Ave, Rm. 1140A. 935-6001.

I2

Computer science's Cox
key consortium organizer

— from Page 1

technologies to form the future Internet. Present applications of I2 can improve teaching, learning and research in higher education by providing enhanced networking features such as high bandwidth, low delay and multicast.

One distinct advantage I2 provides is linkage to the nation's supercomputing centers via a sophisticated network grid.

Washington University has been an I2 member since 1999 and presently uses the network for collaborations across the country for research in brain mapping and high-energy physics, among other initiatives.

Jerome R. Cox Jr., Sc.D., senior professor in computer science in the School of Engineering and Applied Science at Washington University, organized the efforts to bring the consortium together.

"Internet2 will provide a much better environment for science and engineering research, though it is available to anybody on campus who communicates with other education institutions," said Cox, who was a longtime chair of computer science. "Primarily, it will provide more imaging capability, including three-dimensional animations, and facilitate distance learning and collaborations. Internet2 eventually will provide common access to distant resources, such as telescopes, microscopes and other instrumentation."

Thomas F. Moberg, Ph.D., vice president and chief information officer at Saint Louis University, said, "Both the St. Louis Internet2 Access Consortium and our new agreement with SBC are exciting steps forward for our institutions. We are delighted to enter into this collaborative venture with Washington University and the Danforth Plant Science Center. These activities and resources will quickly lead to new applications



Thomas F. Moberg, Ph.D. (seated, left), vice president and chief information officer at Saint Louis University, and Kevin Scully, chief information officer at the Donald Danforth Plant Science Center (seated, right) sign an agreement to join Washington University and SBC Southwestern Bell in a consortium to access Internet2. Looking on are (from left) Jerome R. Cox Jr., Sc.D., senior professor in computer science; Thomas J. Blackwell, Washington University associate general counsel; and Chancellor Mark S. Wrighton.

in research and education that will benefit our students, faculty and community."

Kevin Scully, chief information officer at the Danforth Center, said, "As the plant and life sciences are becoming increasingly dependent on information technology, a strong infrastruc-

ture of high-speed networking and applications, such as I2 provides, will be vital to the continuing leadership of research institutions such as the Danforth Center, Saint Louis University and Washington University in St. Louis. Our research at the Danforth Center depends on

collaboration with partners around the world so we can exchange extremely large genomic data sets, cell imagery and streaming video. I2 will be an enabler for our research success.

"Connectivity provided through our partnership in the St. Louis Internet2 Access Consortium will pay great dividends for science in our region for years to come."

Kevin Kremer, regional vice president of major accounts for SBC Southwestern Bell-Missouri, said, "SBC is pleased and excited

to be partnering with three world-class institutions in this initiative. We look forward to enabling Internet2 access over SBC's state-of-the-art network."

Jan Weller, assistant vice chancellor of network and library technology at Washington University, will continue to operate Internet2 for Washington University access.

"The Washington University in St. Louis campus data network was created under Dr. Cox's leadership," Weller said. "The St. Louis Internet2 Consortium was conceived based on his vision and his understanding of how networks currently support and sustain research, teaching, learning and outreach efforts. While there are immediate economic and technical benefits derived from the consortium, the future of a St. Louis regional network is rich with possibilities. We look forward to exploring this new opportunity."

Cox said that the access network will allow data transmission speeds up to 1,000 megabits per second and will provide connectivity to the Abilene network for each of the consortium institutions. He expects that more area educational institutions will join the consortium once the core institutions are connected to all other Internet2 institutions through the nationwide Abilene network.

For additional information on the St. Louis Internet2 Access Consortium, call Cox at 935-4621 or e-mail jrc@cs.wustl.edu.

Gift

— from Page 1

grow in the study of religion at the University. The number of students majoring in religious studies has been rising steadily over the past decade and topped 40 for the first time in the University's history this spring.

Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences, said that the University soon will begin recruitment efforts to fill the chair.

"This remarkable gift will allow us to recruit an internationally renowned scholar who is deeply committed to exploration of Catholic thought and history," Macias said. "This is an important new position that will significantly improve the level of learning and awareness of a religious, cultural and political tradition that has been one of the key influences on our human experience and history."

The University has approximately 1,200 students registered at the Catholic Student Center, a figure up 20-fold from a decade ago when the Rev. Gary Braun, director of the Washington University Catholic Student Center, joined the University.

Braun estimates about 20 percent-30 percent of the student population at Washington University is Catholic.

"I believe that the professorship will create an important new link between the University's academic community and the Catholic Student Center, and I hope it will result in a deepening of students' understanding of Roman Catholic thought and

history," Braun said.

Creating a richer, deeper Catholic experience is important to Darrow, a native St. Louisan who was educated by Sacred Heart nuns and a 1931 graduate of Arts & Sciences. Her commitment goes back to a half-century ago, when she was part of a group of men and women who provided the financial support to strengthen the Newman Center on campus and provide it with its present facility at 6352 Forsyth Blvd.

During those early years, Darrow helped run the Newman brunches, which raised funds to support the ministry of then-director Monsignor Gerard Glynn. In 1991, Braun changed the name to the Catholic Student Center at Washington University.

Darrow has been an ardent supporter of the University for many years, as was her late husband, Edward. Both felt strongly that they should support their alma maters.

A 1937 graduate of Colgate University, Edward Darrow gave an endowed professorship to his alma mater. At Washington University, Stella Darrow established a scholarship for medical students in memory of her father, Albert F. Koetter.

The Washington University Libraries also hold a special place in her heart. As a former librarian, she has been active with the libraries for many years and has served on its library council and its National Council.

In addition to her contributions to the medical school and the libraries, Darrow has supported a number of projects in Arts & Sciences and is a long-standing member of the Washington University Women's Society.

"Internet2 will provide a much better environment for science and engineering research, though it is available to anybody on campus who communicates with other education institutions."

JEROME R. COX JR.

Health plans

— from Page 1

• Health carriers' week will be held during the week of May 13; and

• Health carriers' customer service departments will be available starting May 1.

Due to the new plan offerings, faculty and staff should be aware of important enrollment guidelines.

If currently enrolled in the CIGNA HMO or POS, employees must choose another health plan. Those CIGNA members who fail to re-enroll in a health plan or return the waiver of health benefits form by the May 31 deadline will

be defaulted to the Alliance Basic PPO plan.

If currently enrolled in the Alliance Blue Cross Excel or Basic plans, employees who elect not to enroll in another health plan option will automatically remain in those respective plans.

If currently enrolled in the BJC Dental-only plan, employees who elect not to enroll in a health plan will automatically remain in the BJC Dental plan.

For retired faculty and staff members, a delayed health-care benefits open enrollment period starts July 15 and ends Aug. 15. Most benefit changes will be effective Sept. 1. Informational packets will be sent and meetings will be conducted during the week of July 15.

Law school presents public service awards

By JESSICA N. ROBERTS

Rebecca R. Garcia, a student in the School of Law and the George Warren Brown School of Social Work, has received the law school's inaugural Public Service Law Student of the Year Award, and the Missouri State Public Defender System has been named the Public Service Employer of the Year.

The awards were presented April 8 at the first Public Service Law Celebration April 8 in the Janite Lee Reading Room in Anheuser-Busch Hall. The goal of the event was to celebrate the contributions made by students and alumni in the area of public service law and to recognize the students in the Public Interest Summer Stipend Program and the Public Service Project.

The summer program provides stipends to law students who choose to work in public interest law and is designed to introduce students to this diverse field of law and to its importance to the legal profession and the community.

The Public Service Project was established to further develop the School of Law's long-standing



Elizabeth Patton (left), public service coordinator in the School of Law, congratulates Rebecca R. Garcia, a student in the law school and in the George Warren Brown School of Social Work and winner of the inaugural Public Service Law Student of the Year Award, at the first Public Service Law Celebration April 8 in the Janite Lee Reading Room in Anheuser-Busch Hall.

commitment to public service by encouraging and facilitating schoolwide participation in general public service projects and volunteerism. Law students in this project performed more

than 1,500 hours of public service.

Moses W. Harrison, chief justice of the Illinois Supreme Court (and 1958 alumnus of the law school), served as keynote speaker.

Employment

Use the World Wide Web to obtain complete job descriptions. Go to hr.wustl.edu (Hilltop) or medicine.wustl.edu/wumshr (Medical).

Hilltop
Campus

Information regarding positions may be obtained in the Office of Human Resources, Room 130, West Campus. If you are not a WU staff member, call 935-9836. Staff members call 935-5906.

Research Technician 000256

Senior Medical Sciences Writer 010108

Reference/Subject Librarian (Psychology) 010241

Director of Annual Giving Programs 020064

Senior Site Operator 020065

Planned Giving Officer 020086

Business Development Specialist 020169

Career Development Specialist 020170

Director of Corporate Relations 020190

Deputy Police Officer 020203

Director, Univ. Development Project & Asst. Director, Principal Gifts 020208

Chem/Earth & Planetary Sciences Library Assistant 020213

Senior Medical News Writer 020217

Coordinator, Program for Technical Assistance 020218

Coordinator, Multicultural Student Groups 020220

Admissions Counselor 020223

Mechanic (Bargaining Unit Employee) 020227

Financial Aid Awards Associate 020238

Assoc. Dir. of Dev. And Director of Annual Fund 020245

Assoc. Dir. of Dev. For Arts & Sciences 020246

Pharmacist 020249

Secretary/Receptionist 020255

Registrar 020257

Data Entry Processor 020261

Director, Engineering Career Services 020262

Administrative Aide (Professional Rater) 021265

Academic and Financial Aid Advisor 020266

LAN Engineer 020268

Administrative Assistant 021269

Plant Care Assistant 020270

Senior Information Systems Auditor 020271

Graduate Tax & International Program Coord. 020276

Research Assistant 020278

Administrative Asst., School of Architecture 020282

Project Leader/IS 020283

System & Network Administrator 020284

Grants Coordinator 020286

Government Grants Specialist II 020287

CFU Accountant (Reporting) 020288

Administrative Receptionist 020289

Business Development Manager 020290

Licensing Case Coordinator 020291

Library Technical Asst. - Art & Architecture 020292

Manager, MBA Advising 020293

Medical
Campus

This is a partial list of positions at the School of Medicine. Employees: Contact the medical school's Office of Human Resources at 362-7196. External candidates: Submit resumes to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63110, or call 362-7196.

Medical Assistant II 021219

Patient Billing Services Rep. I 021379

Senior Research Technician 021392

Nurse Practitioner 021409

Secretary I 021413

Exec. Dir. Business Affairs 021414

RN Staff Nurse 021417

Custodian 021433

Research Patient Coordinator 021444

Medical Assistant II 021445

Secretary II 021446

Animal Care Technician I 021448

Grant Analyst 021454

Notables

Of note

Brian D. Carpenter, Ph.D., assistant professor of psychology in Arts & Sciences, has received a one-year, \$4,000 grant from the American Psychological Foundation for research titled "Family Dynamics Among In-Laws: Integration, Expectations and Well-Being." ...

Sharlene A. Teehey, M.D., associate professor of radiology in the School of Medicine, has received a one-year, \$99,998 grant from the RSNA Research and Education Foundation for an "International Radiology Education Program." ...

Kyunghee H. Choi, Ph.D., assistant professor of pathology and immunology in the School of Medicine, has received a four-year, \$756,000 grant from the National Heart, Lung, and Blood Institute for research titled "Hemangioblast Development and Regulation." ...

K.S. Clifford Chao, M.D., assistant professor of radiation oncology in the School of Medicine, has received a three-year, \$767,196 grant from the National Cancer Institute for research titled "Hypoxic Imaging-Guided Intensity Modulated Radiotherapy." ...

Lee Ratner, M.D., Ph.D., professor of medicine, has

Parking permits

Watch your campus mail this week for information on renewing parking permits. If you are a current permit-holder and do not receive a packet by mail, contact parking services at 935-5601 to have a packet sent. Those who do not currently hold a permit but intend to purchase one of the new permits also can contact parking services to receive a packet.

received a two-year, \$575,324 grant from the National Cancer Institute for research titled "Chemo/antiretroviral Therapy for HTLV-1 ATLL." ...

Talal A. Chatila, M.D., associate professor of pediatrics in the School of Medicine, has received a two-year, \$308,000 grant from the National Institute of Diabetes and Digestive and Kidney Diseases for research titled "Pathogenesis of X-linked Allergic Autoimmune Diabetes." ...

Alan L. Schwartz, M.D., Ph.D., the Harriet B. Spoehrer Professor and chair of pediatrics in the School of Medicine, has received a five-year, \$814,588 grant from the National Institute of Child Health and Human Development for a project titled "Pediatric Gastroenterology Research Training." ...

David C. Linehan, M.D., assistant professor of surgery, has received a five-year, \$624,435 grant from the National Cancer Institute for research titled "A Multivalent Dendritic Cell Vaccine in Pancreas Cancer." ...

Rumi Kato Price, Ph.D., research associate professor of epidemiology in psychiatry in the School of Medicine, has received a one-year, \$44,378 grant from the Longer Life Foundation for research titled "Data-Mining Approaches to Suicide and Suicidal Behavior." ...

Judith E.C. Lieu, M.D., instructor in otolaryngology in the School of Medicine, has received a one-year, \$15,000 grant from the CORE Program at the American

Academy of Otolaryngology Head and Neck Surgery for research titled "Prediction of Hearing Loss in High Risk Newborns." ...

Carolyn J. Anderson, Ph.D., associate professor of radiology in the School of Medicine, has received a one-year, \$77,000 grant from the U.S. Army Medical Research Acquisition Activity for research titled "Radiolabeled Matrix Metalloproteinase Inhibitors for Breast Cancer Therapy," and a "Nuclear Medicine Education Award" grant for \$294,688 over three years from the U.S. Department of Energy. ...

Raphael Kopan, Ph.D., associate professor of molecular biology and pharmacology in the School of Medicine, has received a two-year, \$250,000 grant from the Alzheimer's Association for research titled "Biochemical Analysis of the Secretosome and its Substrates." ...

Jonathan D. Gitlin, M.D., the Helene B. Roberson Professor of Pediatrics in the School of

Blumenfeld concert April 29

Harold Blumenfeld, professor emeritus of music in Arts & Sciences, recently was commissioned by the St. Louis Circle of Jewish Music to compose a setting of Lord Byron's *The Harp the Monarch Minstrel Swept* for men's chorus with cello and piano.

The work will premiere at 7 p.m. April 29 at the B'nai Amoona Temple, 324 S. Mason Road. The concert, in memorial to former Cantor Edward R. Fogel, is free and open to the public.

"Lord Byron was a proto-

Zionist in addition to being a fighter for Greek independence from the Ottoman Turks," Blumenfeld said. "On a request from a young London Jewish composer, Isaac Nathan, for a couple lines to set, Byron penned some 20 'Hebrew Melodies' — poems dealing with Hebrew history, wars and the Diaspora. My piece is based on one of the longer poems and deals, of course, with David."

For more information, call 576-9990.

Medicine, has received a one-year, \$25,000 grant from the Samuel Rosenthal Foundation as a "Prize for Excellence in Academic Pediatrics."

Karen L. O'Malley, Ph.D., professor of anatomy and neurobiology in the School of Medicine,

has received a three-year, \$339,625 grant from the U.S. Army Medical Research Acquisition Activity for research titled "Fundamental Patterns Underlying Neurotoxicity Revealed by DNA Microarray Expression Profiling."

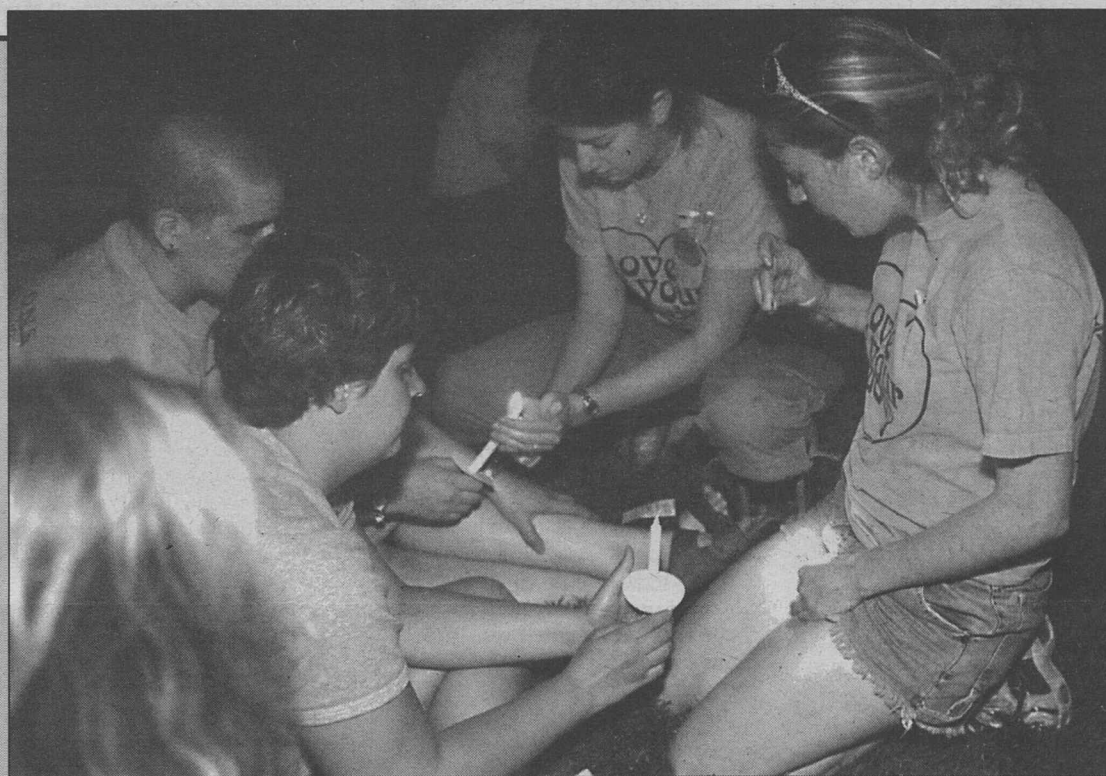
Obituaries

Kery, libraries employee

Frances Kery, a longtime University Libraries employee, died Wednesday, March 27, 2002. She served as the libraries' binding supervisor for 23 years, from 1962-1985.

Andrews, botany dean

Henry N. Andrews Jr., Ph.D., former instructor at the University's Henry Shaw School of Botany and dean of the botany department until 1964, died Sunday, March 3, 2002, in Concord, N.H. He was 91.



Building acceptance (From left) Sophomore Melanie Camras, senior Katrina Watson, senior Ariana Prawda and junior Anna Fishbein help light each other's candles at the annual Candlelight Vigil to Accept Ourselves and Accept Others held in Brookings Quadrangle April 18. The nationwide event, sponsored by the National Association for Anorexia Nervosa and Associated Disorders, recognized those who have suffered from an eating disorder and helped participants to accept themselves and their fellow classmates.

Arts & Sciences undergrads collect major awards

By ANDY CLENDENNEN

Several undergraduate students in Arts & Sciences recently received national recognition for what they have done and for what they are about to do.

Sophomore Bethany Ehlmann, pursuing a triple major in earth and planetary sciences, in environmental studies and in mathematics, and junior Laurel Griggs, pursuing a double major in environmental studies and in systems science and mathematics, each received a Morris K. Udall Scholarship administered by the Udall Foundation and the Excellence in National Environmental Policy Foundation. The scholarship covers tuition, fees, books and room and board up to a maximum of \$5,000 per year.

Ehlmann also received the prestigious Goldwater scholarship.

Udall scholarships are granted to those who demonstrate a commitment to fields related to the environment, or to Native American or native Alaskan students in fields related to health care and tribal public policy. Congress established the foundation in 1992 to honor Udall and his legacy of public service.

Raymond E. Arvidson, Ph.D., the James S. McDonnell Distin-

guished University Professor and chair of earth and planetary sciences, advises both Ehlmann and Griggs.

Dirk M. Killen, Ph.D., assistant dean, academic coordinator and fellowships adviser in Arts & Sciences, said, "They are both terrific young leaders and very strong students. We haven't had a Udall winner since 1997, so we are very excited about having two this year, especially because we have such a strong environmental studies program at Washington University.

"I think it speaks to Professor Arvidson's very able mentoring that two from his advising group were able to win the Udall this year."

Ehlmann is a product of the Pathfinder Program in Environmental Sustainability overseen by Arvidson. Griggs participated in an earlier version of the Pathfinder Program known as the Hewlett Program in Environmental Sustainability.

Junior Kristina Olson, pursuing a double major in psychology and African & Afro-American Studies, has been awarded a Beinecke Memorial Scholarship, worth \$32,000 in support of her future graduate education. There were 91 nominees this year; 20 Beinecke scholars were selected by the

Sperry Fund.

The scholarships were established in 1971 by the board of directors of The Sperry and Hutchinson Co. to honor Edwin, Frederick and Walter Beinecke, early leaders of the company.

The Beinecke scholars program seeks to encourage and enable highly motivated students to pursue opportunities available to them and to be courageous in the selection of a graduate course of study in the arts, humanities and social sciences.

"Washington University is one of roughly 100 institutions that have nominating privileges," Killen said of the Beinecke scholarships. "Kristina Olson is an extraordinary student who has had very strong advising from Professor Henry Roediger, Professor Alan Lambert and Professor Jeffrey Zacks. She received very strong faculty support for this award. She is an outstanding young woman and an exemplary student."

"Kristina is planning a Ph.D. in social psychology, and she's been doing a lot of first-rate research work with her faculty mentors, much of which focuses around questions of psychology and race relations. She has been investigating the cognitive processes of stereotyping, and through her work in experimen-

tal psychology she hopes to reach a 'better understanding of the ways in which racism affects our daily lives.'"

Four undergraduates also recently received a prestigious Goldwater scholarship.

The Barry M. Goldwater Scholarship and the Excellence in Education Foundation awarded 309 scholarships to sophomores and juniors. The Goldwater scholars were selected from a field of 1,155 nominees in the fields of mathematics, science and engineering.

The scholarships will cover tuition, fees, books and room and board, up to a maximum of \$7,500 per year. The program is designed to foster and encourage outstanding students to pursue careers in the fields of mathematics, the natural sciences and engineering.

University recipients were Ehlmann; Sam Gross, double-majoring in physics and computer science in the School of Engineering and Applied Science; Karen Ruff, double-majoring in chemistry and French; and Cory Simpson, majoring in biology.

"We have done very well with the Goldwater for a number of years now, in large part due to the leadership of Dr. Regina Frey and Dr. Edward Hiss in the chemistry department, and Dean Edward

Macias," Killen said. "They have served on (the Goldwater) committee for a number of years, and we have had excellent nominees each year. This is the first year that all four of our nominees have won. (Nominating institutions may nominate up to four students.)"

"I was truly thrilled. The Goldwater is generally considered to be, if not the most prestigious, then certainly one of the most prestigious awards for undergraduates planning careers in the sciences, engineering or math."

In recent years 44 Rhodes scholars and 39 Marshall scholars had previously been Goldwater winners; six of this year's 32 U.S. Rhodes Scholars are also Goldwater Scholars.

Killen was particularly pleased that several departments had winners.

"It shows the strength of our science departments, and it speaks to the opportunities that the students are getting early in their undergraduate careers to do some very interesting and challenging research work," Killen said. "This is extraordinary. Our science departments here are very encouraging and nurturing toward these young scientists, and I think that's one of our real strengths."

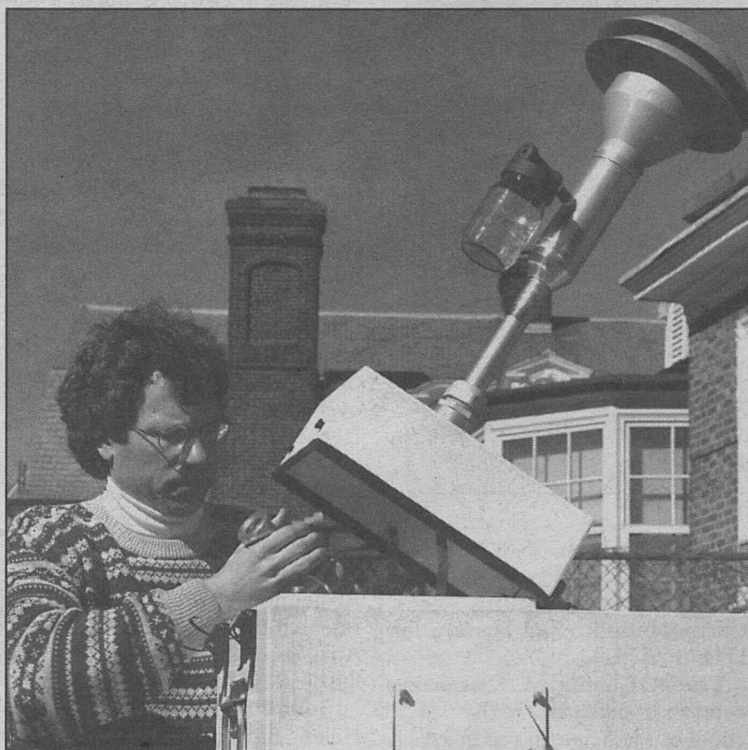
Washington People

In between coordinating air-quality measurements throughout the St. Louis metropolitan area and managing two major studies funded by the U.S. Environmental Protection Agency (EPA), Jay R. Turner, D.Sc., is winning awards for the quality of his teaching and advising the University.

Turner, associate professor in chemical engineering with a joint appointment in civil engineering, has won the "Professor of the Year" award from the School of Engineering and Applied Science four times since 1993. Student Union named him "Engineering Faculty of the Year" in 1999 as well as 2001, and it also honored him with "Engineering Adviser of the Year" in 2000.

He teaches a suite of courses, mainly in environmental engineering, and has been involved with the school's Environmental Engineering Program since its inception in the mid-1990s.

Turner is a bundle of energy who radiates knowledge and caring. When he speaks to a class or an audience, he has the



Jay Turner, D.Sc., associate professor in chemical engineering with a joint appointment in civil engineering, adjusts an air-sampling device at a research site. Turner is managing two large, multi-institutional U.S. Environmental Protection Agency pollution studies, one of air, the other of water.

A breath of fresh air

As director of the University's Air Quality Laboratory, Jay R. Turner digs in on analyzing pollution

By TONY FITZPATRICK

capacity to make every person in the room feel that he is directing his attention to that individual only. He brings passion, purpose and an unrelenting persistence to his research.

Turner directs the University's Air Quality Laboratory (AQL), which conducts research into various issues in air pollution characterization and control. Recent projects have addressed the contributions of tire wear to airborne particulate matter, how charcoal manufacturers can prevent pollution, and how forests — such as the Ozarks in Missouri — contribute to air pollution by releasing organic compounds that react in the atmosphere to form smog.

In the winter of 2000, Turner became principal investigator of two major EPA pollution studies, one of air, the other of water. The water-pollution project, managed in collaboration with the Electric Power Research Institute Community Environmental Center (EPRI-CEC), which is housed in the engineering school at Washington University, funds several institutions to address various facets of decentralized waste-water treatment.

Turner works closely with Raymond Ehrhard of EPRI-CEC, who chairs the steering committee for the project, to provide the organizational framework and ensure the scientific integrity of this effort.

On the air-pollution front, the EPA designated Washington University as the lead institution, with Turner as principal investigator, for a major air-pollutant characterization study. The St. Louis-Midwest Supersite monitors airborne fine-particle matter in the St. Louis metropolitan area with emphasis on high time resolution. It involves a nationwide consortium of nine universities and research institutes.

The project began in January 2000 and runs through December 2003 and was initially funded at about \$3.5 million. Measurements at the field sites started in April 2001 and were originally scheduled to end this month, but additional funding from a variety of sources will enable field measurements to be conducted for at least another year.

"The study is designed to support a range of data needs," Turner said. "The scientific

community will benefit from such a detailed study of airborne particulate matter's physical and chemical properties as measured at high time resolution. Together with allied-exposure and health-effects studies, this work will help the EPA set appropriate air-quality standards.

"There also are immense benefits for the Midwest in general and the St. Louis region in particular, as we will have a better grasp of our particulate-matter air-pollutant burdens and can be responsive to the need for coming into compliance with air-quality standards."

Turner's professional staff, graduate research assistants and undergraduate research assistants are solely responsible for a subset of the measurements and also provide the day-to-day field operations support to all collaborators.

"It is a wonderful opportunity for our students," Turner said, "because they not only have their own measurements focus but also the opportunity to routinely interact with top-notch researchers from across the country who have deployed a battery of novel instruments at our sites."

Also working with Turner are three other Washington University colleagues, all veteran air-pollution researchers. They are Edward S. Macias, Ph.D., an atmospheric chemist who also is executive vice chancellor and dean of Arts & Sciences; Rudolf Husar, Ph.D., director of the University's Center for Air Pollution Impact and Trends Analysis (CAPITA); and Warren White, Ph.D., research associate in chemistry and a CAPITA researcher.

"This trio of hard-core aerosol jocks is one of the reasons I came to Washington University," Turner said. "Warren is a cornerstone of our Supersite program and a great mentor to me; indeed, I hold my weekly lunch with him of highest personal and professional value."

The Supersite air quality measurements are integrated with three large health-effects programs, which conduct studies into the relationships between various pollutants and human illnesses ranging from cardiovascular disease to pulmonary illnesses.

For example, colleagues from the Harvard University School of Public Health are currently conducting an air-pollutant exposure and health-effects study in St. Louis. The Harvard team

utilizes AQL facilities and has hired several Washington University undergraduate students to help conduct the field and lab measurements.

Turner's recent interest in air quality measurements to support health-effects studies is a natural evolution of his ongoing interest in the interface between engineering and policy.

"The policy implications of science and engineering research — that twist is what has driven most of my research," he said.

Turner received hands-on public-policy training directly after earning a doctorate from Washington University in 1993. He spent eight months working with the U.S. Department of Transportation (DOT) in Washington, D.C., focusing on implementation of both technical and policy aspects of joint DOT/EPA regulations that emerged from the Clean Air Act Amendments of 1990.

Turner is the son of an engineer father and an elementary school teacher mother who also ran a gift shop, among other things. He was born in the Amish country of Pennsylvania, about 30 miles from State College. With Pennsylvania being a commonwealth, citizens were elected to be justices of the peace, as was Turner's mother.

"People were constantly dropping by for my mother to notarize documents. Periodically she would conduct marriage ceremonies in our living room," Turner said, matter-of-factly.

The family moved to Foster City, Calif. — a suburb of San Francisco — where Turner, the youngest of three siblings, developed his passions for music, sailing and cooking. He attended a high school that had strong science teachers who challenged him and, along with his father, influenced him to become an engineer.

Turner earned bachelor's and master's degrees from the University of California, Los Angeles, in chemical engineering and became interested in air-quality research while working in the laboratory of Sheldon Friedlander, a world-renowned aerosols expert.

Turner met current chemical engineering chair Milorad (Mike) Dudukovic, Ph.D., the Laura and William Jens Professor of Environmental Engineering, while he was a visiting professor at UCLA, and later worked under him at Washington University for his doctorate.

"Jay established himself as a

world-class researcher in the aerosol field early in his career," Dudukovic said. "His early work is cited to this day. Jay's focus on important problems and his excellent reputation in environmental engineering have enabled him to secure multiyear funding of significant magnitude as a principal investigator on two major projects.

"While being a superb and outstanding teacher-educator and a dedicated researcher with vision, Jay has excelled also in his service to the department, school and the profession."

Turner cites Dudukovic as a significant influence.

"Mike is a very sincere person whom I've always admired," Turner said. "He's a world-class researcher who takes teaching very seriously. He's showed me how to strike what I feel is a nice balance between the two."

Turner's wife is Sandra Wilkie, whom he met while she was pursuing a master's degree in the George Warren Brown School of Social Work. After completing graduate studies, Sandra received a Presidential Management Internship (PMI) to work at the U.S. Department of Health and Human Services in Washington, D.C., and returned with Turner to St. Louis in 1994.

Since that time, she has, among other things, taught graduate courses at GWB, and last year received a prestigious Children and Family Fellowship from the Annie E. Casey Foundation.

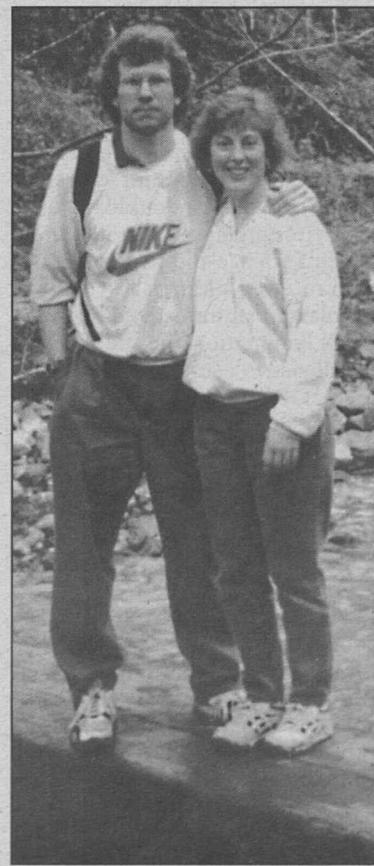
"Sandy spent several months in New York City and Honolulu last year," Turner lamented, "while I was working at our field sites through the hot and humid St. Louis summer."

Don't misread Turner, however, as he savors every moment spent in the field. Sandra is currently assistant to the director of the Division of Child Support Enforcement for the Missouri Department of Social Services.

The couple enjoys recreational biking and sailboat racing, the latter pursued on summer weekends at nearby Lake Carlyle.

Turner's vision for his research is similar to his approach to teaching — he wants to make an immediate impact.

"We hope what we are doing can be applied to current practices and regulations," he said. "Much of our work attempts to identify the critical knowledge gaps and fill them in to help decision-makers take a step forward."



Jay Turner and Sandra Wilkie in John Muir Woods, Calif.

Jay R. Turner, D.Sc.

Titles: Associate professor in chemical engineering with a joint appointment in civil engineering; member of the School of Engineering and Applied Science's Environmental Engineering Program; director, Washington University Air Quality Laboratory; principal investigator, the St. Louis-Midwest Supersite, EPA air pollution study

Degrees: Bachelor's, master's in chemical engineering, University of California, Los Angeles; D.Sc., Washington University

Family: Wife Sandra Wilkie, alumna of the George Warren Brown School of Social Work and assistant division director in the Missouri Department of Social Services

Hobbies: Recreational biking, sailboat racing with Sandra during summer weekends at Lake Carlyle