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Record

March 23, 2000

Volume 24 No. 24



Washington University in St. Louis



Help for struggling school comes — literally — from Out of the Blue

By DAVID MOESSNER

The sky-high ceiling of the cavernous West End Community Center provides a fitting metaphor for the collection of 30 children clustered beneath.

The youngsters — an array of third-, fourth- and fifth-graders from Clark Elementary School

taking part in a new after-school literacy program dubbed "Out of the Blue" — possess, like all children, promise and potential of towering proportions. Helping them stretch their scholastic heights every Friday afternoon are 20 Washington University students.

But the strolling pace taken as

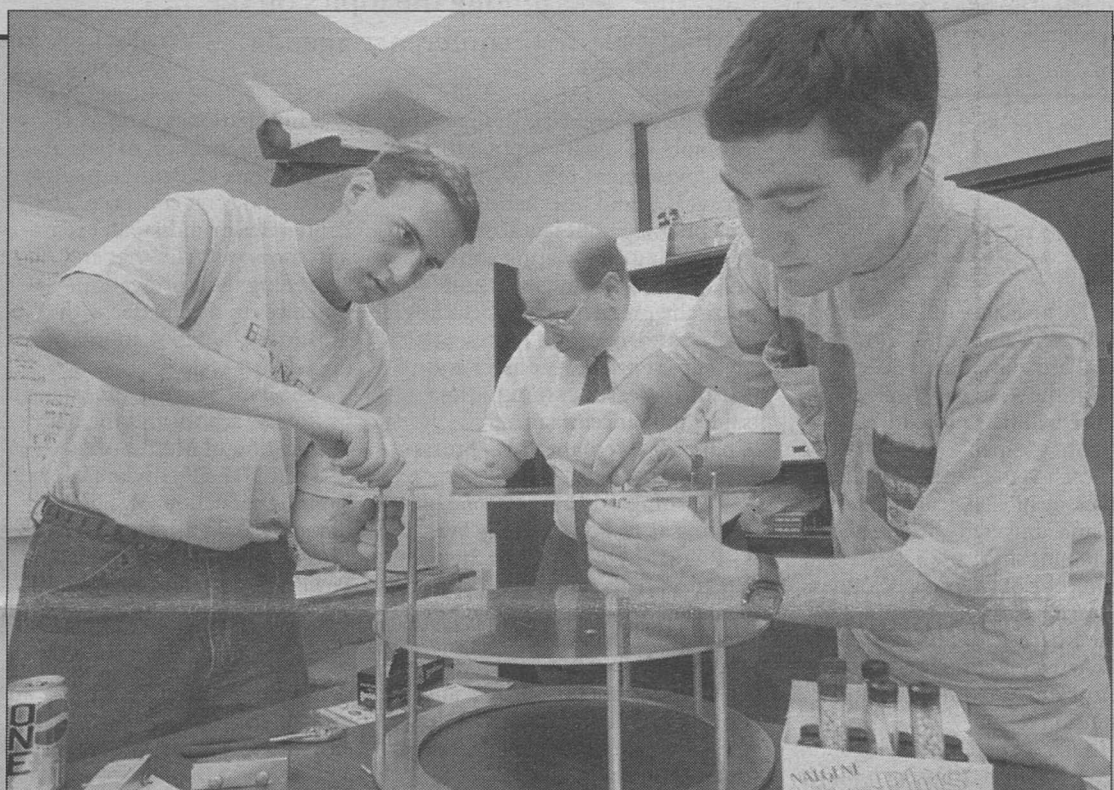
the college students walk the Clark children from the elementary school to the community center belies an underlying urgency: Out of the Blue programming is aimed toward increasing literacy for the Clark students, whose test scores must be raised in order for the school to keep its accreditation.

Roars, not scores, were the focus last Friday. Acting out characters from the African folk tale "Why Mosquitoes Buzz in People's Ears," the Clark students paraded around the center masquerading as jungle animals — lions proving to be the king in terms of popularity.

The play-acting was just one

component of a clever combination of activities designed to get the students excited about reading. Means such as theater, art, music and dance challenge the students artistically and creatively, while enhancing their connection to the books they read. Further strengthening the bond are large-group

See **Out of the Blue**, Page 7



Up, up and away Keith Bennett, center, affiliate assistant professor of computer science, assists sophomores Barry Tobias (left) and Iliya Filev (right) in assembling a 60-pound Get-Away-Special can, which will carry experiments from seven area secondary and elementary schools on a NASA shuttle flight in August. Bennett is the director of the Aria Program, a joint venture of the University and the Cooperating School Districts (CSD) of St. Louis. The program provides interdisciplinary hands-on engineering projects for undergraduates and younger students. Since 1998, more than 50 undergraduates and more than 150 CSD pupils have participated.

Nicholson is first Stiritz Professor

By CHRISTINE FARMER

Linda J. Nicholson, Ph.D., has been named the first Susan E. and William P. Stiritz Distinguished Professor in Women's Studies. A formal installation ceremony will take place in the fall.

Nicholson joined the University this semester as a professor of history and of

women's studies in Arts & Sciences and is currently teaching Topics in Feminist Thought: Feminist Theory.

"Linda Nicholson's national and international reputation as a major intellectual force in women's studies makes her an ideal recipient of such a distinguished professorship," said Chancellor Mark S. Wrighton. "She is the perfect person for the

first endowed professorship in women's studies made possible through the generosity of two of the University's greatest supporters."

The University's Women's Studies Program, one of the first in the nation, has become increasingly popular and more pertinent to men's and women's education since its founding in 1972 by interested students and faculty, including the longtime coordinator, Joyce Trebilcock, Ph.D., now professor emerita of philosophy.

"Professor Nicholson is recognized not only for the depth and breadth of her knowledge of the field but also for her ability to engage students actively in her courses, both in lecture and discussion classes," said Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences. "Having taught in departments of philosophy, political science, educational administration and policy studies and women's studies prior to coming to Washington University, Professor Nicholson brings ideal experience to our own interdisciplinary program in women's studies. I anticipate that she will play a key role in the growth and development of our Women's

See **Net tool**, Page 2

See **Nicholson**, Page 7

Net tool helps win grants

By DIANE DUKE WILLIAMS

An innovative Internet tool is helping faculty around the world find new funding opportunities, collaborate with researchers in their fields and promote their research. The Community of Scholars network, with 225 educational institutions and 80 corporate and government organizations as members, has developed the largest database of funding opportunities on the World Wide Web, according to Cindy White, director of Washington University's Research Office.

The University became a member of the Community of Scholars database in 1996. In

response to the findings of the Research Support Services Assessment Project in 1999, Theodore J. Cicero, Ph.D., vice chancellor for research, decided to use the network as the University's exclusive grant opportunities and expertise resource. Thus far, about 1,300 faculty have taken advantage of the database. In the future, the Research Office hopes even more faculty will participate.

"The overall goal of this project is to increase Washington University faculty's ability to get grants," said Community of Scholars liaison Linda Mercer, who is on loan to the Research Support Services Assessment Project from the Bernard Becker

Money managers Students create currency fund

By NANCY BELT

Budding institutional money managers at the John M. Olin School of Business are designing, building and managing a currency investment fund this semester, the first non-equity fund to be managed by students in the Investment Praxis course.

They'll begin with \$200,000, the first installment of a \$1-million commitment to the University from Max "Mickey" S. and Deborah "Debbie" Stern, staunch University supporters in Orchard Lake, Mich., and parents of two daughters — Michelle, a senior in Arts & Sciences, and Natalie, a high school sophomore.

"This generous commitment allows us to add to the Olin School's strong portfolio of experiential-learning opportunities," Dean Stuart I. Greenbaum said. "The most compelling way to learn is by doing."

"Praxis," the practical application or exercise of a branch of knowledge, is an apt description of the course, because participating students learn and apply money-management skills. The course, which began in 1997, has to this point offered experience only in managing an equity fund, which involves trading company

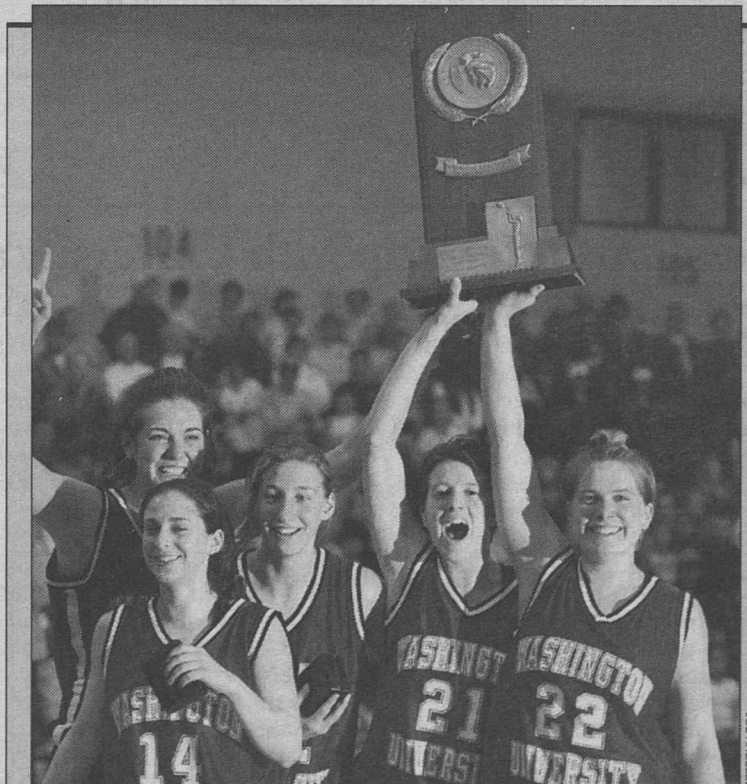
stocks. Now, students may join either the equity-fund or the currency-fund section of the course, depending on their interests, skills and experience.

To implement their investment strategy, students managing the currency fund will use short-term securities and bank deposits denominated not only in the U.S. dollar but also in the yen, pound sterling and euro. Students are enjoying the fund's international flavor, and they're hoping their returns beat their benchmark — a blend of short-term interest rates in the target currencies, now at about 6 percent in dollars.

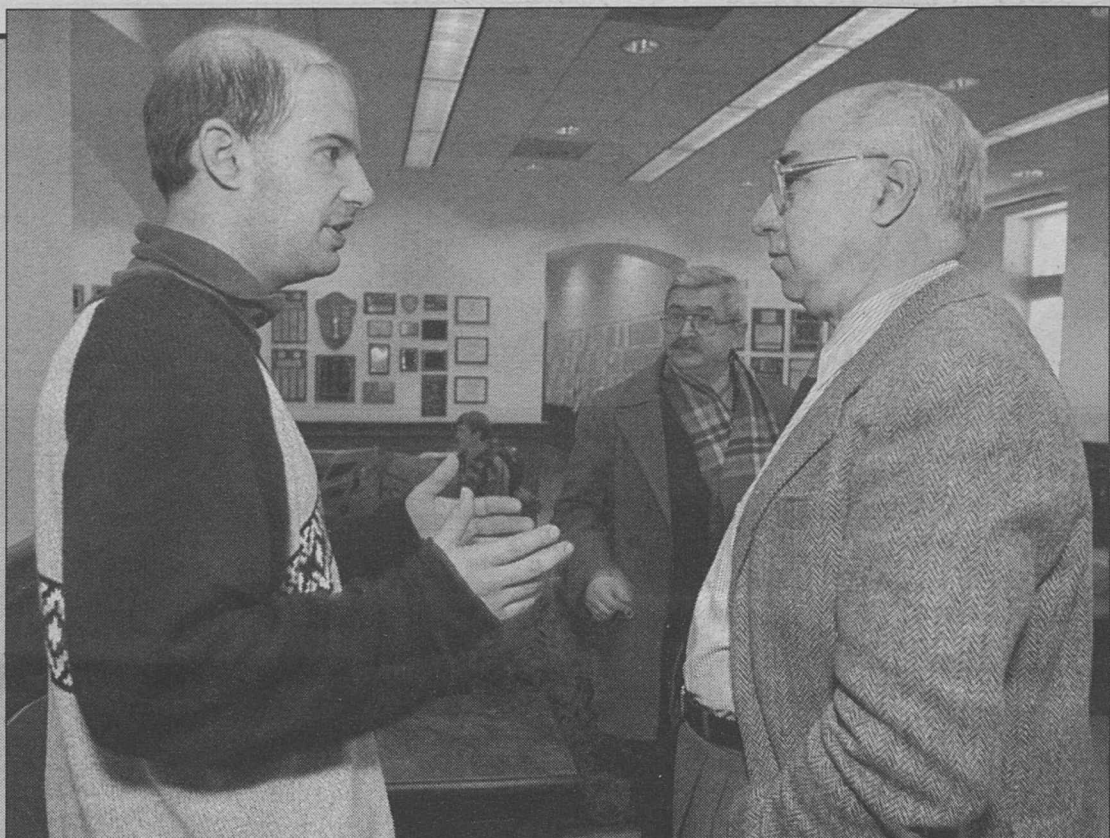
Senior Jung Lieu, one of 12 undergraduates and M.B.A. students in the currency section, said teams will research the economies of Asia, the United Kingdom and nations in the European Monetary Union in order to understand currency-exchange rates. "This is a great opportunity for me to gain direct experience in investing and to learn from M.B.A.s in the class," she said.

All students in Investment Praxis, offered through the school's Center for Experiential Learning, learn the problems and considerations of managing

See **Managers**, Page 6



Simply the best Seniors Alia Fischer (left, back) and (from the left) Abby Neiburger, Emily Harold, Sue Tucker and Beth Ruether celebrate the Bears' 79-33 pummeling of Southern Maine University in the NCAA Division III women's basketball finals Saturday, March 18, in Danbury, Conn. The win gave the Bears their third straight national crown.



Turkish visitors Second-year law student Werner Dillmann, left, discusses the Turkish legal system with Sait Güran, law dean and professor of administrative law at Istanbul University. The School of Law's Institute for Global Legal Studies hosted a visit March 16 and 17 by 12 deans from Turkey's law schools. Yusuf Caliskan, a candidate for a doctor of juridical science degree, served as an interpreter for the visiting delegation, which participated in forums with law faculty and students on comparative legal education.

MARY BURNS

A woman's perspective NPR's Linda Wertheimer to speak on politics

National Public Radio (NPR) host Linda Wertheimer will deliver the Assembly Series' annual Women's Week lecture, titled "A Woman's

Perspective on the Congress and Politics," at 11 a.m., Wednesday, March 29, in Graham Chapel.

Wertheimer, senior host of NPR's "All Things Considered," draws on more than 20 years of political reporting experience to provide an insider's view of Washington, D.C., the political process and significant national issues. Broadcasting for NPR since 1971, Wertheimer has been with the organization almost since its inception, serving first as the network's congressional correspondent, then, beginning in 1976, as a political correspondent, a position she held until 1989, when she joined the award-winning news magazine "All Things Considered."

Wertheimer edited "Listening to America: 25 Years in the Life of a Nation," a collection of NPR interviews and essays spanning the network's life. The book revisits the major news stories and cultural changes of the past quarter century, with



Assembly Series

Who Linda Wertheimer

Where Graham Chapel

When 11 a.m. March 29

Admission Free and open to the public

Wertheimer's lively commentary placing each story in its historical context.

In 1988 she received a Corporation for Public Broadcasting award for her work on "The Iran-Contra Affair: A Special Report," a series of 41 half-hour programs that summarized each day's congressional hearings and highlighted key testimony. Wertheimer was honored with a special Alfred I. Du Pont-Columbia University Citation for her coverage of the 1978 Panama Canal Treaty debates.

Classics scholar looks at politics in ancient world

Author and classical studies scholar Eleanor Leach will deliver the John and Penelope Biggs Residency in the Classics lecture titled "The Politics of Theater /

The Theatricality of Politics in the Ancient Roman World" at 4 p.m. Thursday, March 30, as part of the Assembly Series. The lecture will take place in Graham Chapel.

Leach is the Ruth N. Halls Professor of Classical Studies at Indiana University, where she has taught since 1977. Leach is the author of "Vergil's Eclogues: Landscapes of Experience" and "The Rhetoric of Space: Literary and Artistic Representation of Landscape in Republican and Augustan Rome."

Leach earned a bachelor's degree in Latin from Bryn Mawr College, Pa., in 1959. She earned a master's degree in 1960 and a Ph.D. in English and Latin in 1963, both from Yale University.

Assembly Series lectures are free and open to the public. For more information about either lecture, visit the Assembly Series web page (<http://wupa.wustl.edu/assembly>) or call 935-5285.

Assembly Series

Who Eleanor Leach

Where Graham Chapel

When 4 p.m. March 30

Admission Free and open to the public

Seminars offer help with University's retirement plan

Several investment education seminars have been scheduled to help faculty and staff better understand and make decisions about the University's retirement annuity plan.

During each seminar, representatives from TIAA-CREF and

Vanguard will review the following topics: the importance of compounding, using the University's plan, investment categories, the relationship between risk and reward, and the importance of asset allocation. Five 90-minute seminars have

been scheduled by the Office of Human Resources for the Hilltop, Medical and West campuses. The sessions are:

• **April 4** — 9 a.m. in Room 204 Crow Hall on the Hilltop Campus and 2 p.m. in Cori Auditorium in the McDonnell Medical Sciences Building on the Medical Campus;

• **April 5** — 9 a.m. in Cori Auditorium and 1 p.m. in Room 103 Simon Hall on the Hilltop Campus; and

• **April 6** — 9 a.m. in the Library Conference Center, Room C, at West Campus.

Reservations are not required. For more information about the University's retirement investment funds, employees may call TIAA-CREF at (800) 842-2733, ext. 5509, or Vanguard at (800) 523-1188.

Vexing new patent issues on law conference agenda

BY ANN NICHOLSON

Three major figures in current patent law policy debates will deliver keynote addresses at a School of Law conference titled "Re-engineering Patent Law: The Challenge of New Technologies," March 31 and April 1.

The headliners for the 2000 Heart of America Patent Law and Policy Conference are the Hon. Randall R. Rader, Court of Appeals for the Federal Circuit; Q. Todd Dickinson, acting director of the U.S. Patent and Trademark Office; and law school alumnus Nuno Carvalho of the World Intellectual Property Organization. In addition to the keynote addresses, the conference will include panel discussions and presentations by academics examining related judicial, international and comparative law issues.

"The conference is designed to promote a dialogue among these key government officials administering U.S. and international patent law, patent law academics researching and writing about major policy issues, and those from the private sector, including patent attorneys and representatives from private industry and various research communities," said conference organizer Charles R. McManis, J.D., professor of law.

Washington University faculty serving as respondents are Frank C-P Yin, M.D., Ph.D., the Stephen F. and Camilla T. Brauer Professor of Biomedical Engineering and chair of the School of Engineering and Applied Science's Department of Biomedical Engineering, and Robert H. Waterston, M.D., Ph.D., the James S. McDonnell Professor of Genetics, head of the Department of Genetics and director of the Genome Sequencing Center at

the School of Medicine.

Conference topics include:

- Pressures to expand fundamental patent law to extend protections for biotechnology and digital technology. From mathematical algorithms to isolated genetic sequences, patent protection now is being sought for subject matter that is "upstream" from the patent/innovation process.

- Bio-piracy and other issues dividing the developing and industrialized worlds. Industrialized nations increasingly are using the knowledge of indigenous people to isolate plant material that then receives patent

protection without compensation to the developing country. Patent protections also have been criticized as making certain technology unaffordable to developing nations.

- International issues such as prompt publication of patent applications vs. confidentiality and trade secret concerns. The United States and Japan exemplify two countries that are amending their protection processes to deal better with drastically different approaches on a global scale.

The conference is sponsored by the law school and the Bar Association of Metropolitan St. Louis' Patent, Trademark and Copyright Section. St. Louis biotech patent attorney G. Harley Blosser, of the firm Senniger, Powers, Leavitt and Roedel, is serving on the planning committee with McManis.

Registration materials and a complete conference schedule are available at the law school Web site (<http://ls.wustl.edu>), or call 421-4134 for more information on registration, 935-7244 for conference schedule information.

Net tool

Community of Scholars supports grant writing

— from page 1

Medical Library. "That's the bottom line."

In addition to providing the largest funding opportunity database, Community of Scholars provides other key benefits:

- It can send e-mails to faculty about funding opportunities that match their research interests and about deadline changes for grants.

- It provides access to a searchable system of 400,000 profiles, enabling faculty to find out who is doing similar research at other universities and how these groups are funded.

- The profile system also allows faculty to print out generic

biographical sketches to be included with grant proposals and to generate automatic curricula vitae.

- Faculty can search for and identify research projects already funded by the National Institutes of Health, the National Science Foundation, the United States Department of Agriculture and other agencies.

To participate, faculty can contact Mercer and fill out expertise profiles. She can be reached at 362-4731 (mercrl@msnotes.wustl.edu).

Faculty who already have used the Community of Science database have given it positive marks, White said. "Our hope," she added, "is that this database will provide a greater measure of service to faculty and enhance the productivity of Washington University's research efforts."

Record

Washington University community news

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Fulbright workshop scheduled for March 29

Would you like to teach or conduct research abroad? Interested in hosting a visiting foreign scholar? If so, bring your curiosity to the Council for International Exchange of Scholars (CIES) Fulbright Workshop at 4 p.m. Wednesday, March 29, in Room 203 Eads Hall. The workshop features Karen Adams, Ph.D., CIES assistant director of Europe/

Newly Independent States.

About 2,000 U.S. grantees, researchers, lecturers and students travel abroad annually through the Fulbright Program, which is considered the nation's most prestigious fellowship for research abroad in the humanities and social sciences. For more information, call Toni Loomis in the Office of International Studies at 935-5073.

Medical School Update

Ouchless

New tools can ease children's ER distress

BY DIANE DUKE WILLIAMS

Despite advances in the past decade that decrease pain and anxiety during visits to the emergency room, children continue to receive less pain medication than adults with similar injuries. And simple techniques to reduce pain and anxiety during minor procedures often are not used. Research also has shown that inadequately relieved pain in children has acute and long-term consequences.

Historically, physicians have been afraid of potent medications' adverse effects, and they weren't trained to use these drugs safely, said Robert M. Kennedy, M.D., associate professor of pediatrics at the School of Medicine and emergency physician at St. Louis Children's Hospital. "But we're making progress.

More research has been done, and we now have more psychological and pharmacological techniques that reduce pain in children."

In a recent issue of the journal *Pediatric Clinics of North America*, Kennedy reviewed many of the methods for reducing children's pain and anxiety during emergency procedures in his article "The Ouchless Emergency Department, Getting Closer: Advances in Decreasing Distress During Painful Procedures in the Emergency Department."

Unexpected stress doesn't allow children and their parents to make much use of coping mechanisms. Nevertheless, Kennedy and Janet D. Luhmann, M.D., instructor in pediatrics, found that age-appropriate preparations for pain and anxiety in emergency rooms might dramatically decrease distress in parents and children. Younger children need simplified language and visual explanations, such as hands-on demonstrations with dolls, whereas older children appreciate more detailed information. Kennedy said assuring patients they will be warned before something might hurt and empowering them to control their

pain by using relaxation, distraction or self-hypnosis also can help minimize distress.

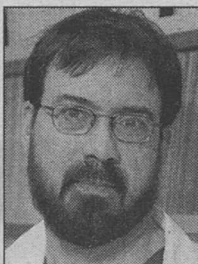
Research also has shown that children want parents at their sides during painful procedures, even though they know parents might not be able to help manage the pain. It also alleviates some of the parents' anxiety. "In our emergency department, we believe very strongly in having parents there," Kennedy said. "This is a big change, but we think it's important in reducing children's distress."

Effective local anesthesia greatly reduces anxiety and the need for more sedation, Kennedy said. During the past decade, many emergency departments have begun

using topical anesthesia such as tetracaine, lidocaine and epinephrine for children's lacerations. Some anxious children who receive pain relief and psychological interventions in emergency rooms still refuse or are unable to cooperate with procedures. Researchers have established guidelines for administering conscious or deep sedation to these children. These guidelines partially focus on standards for staffing and monitoring of patients.

Minimum staffing standards include someone trained in sedation protocols and pediatric advanced life-support techniques. This person monitors the patient's vital functions, administers medication and manages any complications. Also, Kennedy said, it is essential to have a registered nurse skilled in pediatric advanced life support monitoring the patient and recording data on a sedation record.

In the review, Kennedy also highlighted analgesics currently used on children in emergency departments. Recent research has



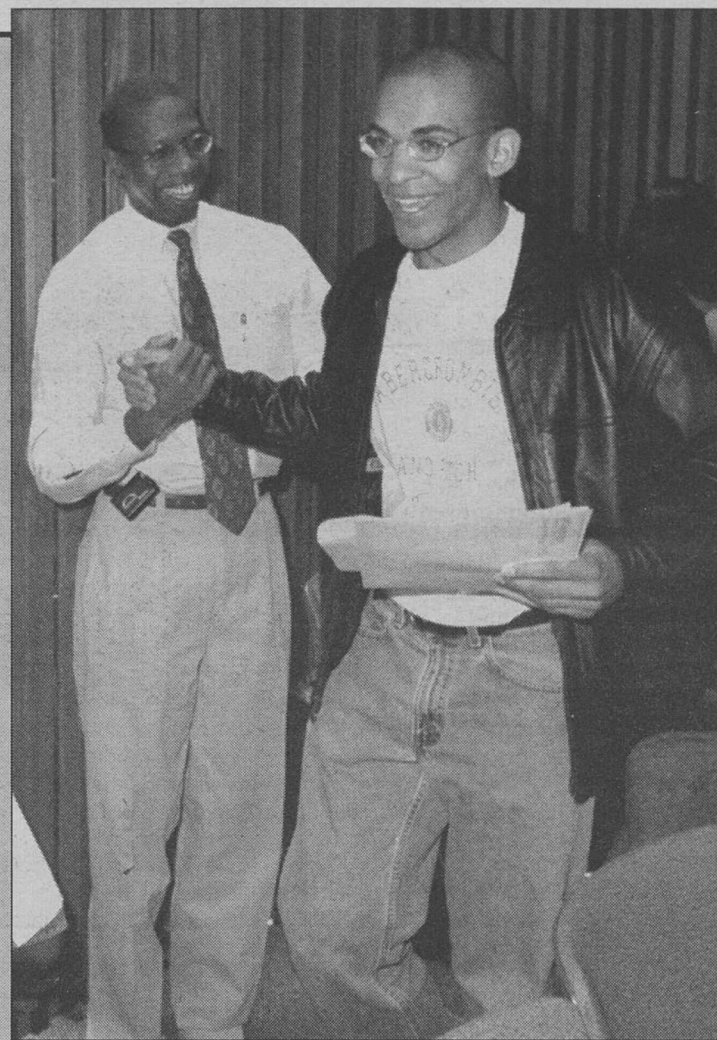
Kennedy: Pediatrician, emergency physician

demonstrated ways in which nitrous oxide, an odorless, tasteless gas, can be used to decrease pain and anxiety in young children. "It also often makes patients laugh, and you can see the relief on parents' faces when that happens," he said. "Nitrous oxide greatly helps children in our emergency department."

The review includes suggested methods for procedures such as computerized tomography scans, laceration repairs, joint relocations and abscess incisions.

Kennedy wants parents to be aware that such procedures can be done with much less pain and stress, but his primary goal is that emergency room personnel learn this information. "My preference is that we educate emergency room workers across the country so that these techniques become commonplace," he said. "Most people don't have another emergency department nearby if their hospital isn't using these techniques."

Kennedy said there's a strong national movement to reduce the pain and anxiety of children during emergency room procedures, and he hopes his article will add to the progress. "A lot of what we need to do is implement what we already know and help people understand the impact of pain on children," he said.



An excellent match Will R. Ross, M.D. (left), associate dean and director of the Office of Diversity Programs, congratulates Gregory Sanders on Match Day March 16 in Moore Auditorium. Each year on Match Day, senior medical students in the United States learn which residency programs they will enter. Sanders will train in interventional radiology at the School of Medicine here.

"My preference is that we educate emergency room workers across the country so that these techniques become commonplace."

ROBERT M. KENNEDY

Choi wins grant for spinal cord repair research

BY LINDA SAGE

Dennis W. Choi, M.D., Ph.D., the Andrew B. and Gretchen P. Jones Professor of Neurology and head of the Department of Neurology, has received a five-year \$5.3 million program project grant from the National Institute of Neurological Disorders and Stroke to determine whether embryonic stem cells can restore lost function after they are transplanted into the injured spinal cord. Embryonic stem cells are the cells of an embryo that give rise to all of the cell types in the body.

The researchers hope their research on rats will lead to ways to help some of the 250,000 Americans who have spinal cord injuries. "Most efforts to date have focused on therapies that might be administered shortly after injury to prevent secondary damage," Choi said. "That is a vital goal, but we are focusing on delayed treatments that might restore some functions to the many people who have existing injury."

His team already has shown that embryonic stem cells that have been coaxed to become nerve cell precursors improve the locomotion of rats when transplanted into the spinal cord nine days after injury. The new program of research, with its four projects and three cores, will focus on developing ways to improve the survival of the transplanted cells in the hope of enhancing the functional benefit of transplantation.

In the first project, Choi's team will determine whether cultured precursor cells are vulnerable to a process called excitotoxicity, in which nerve cells are killed by excessive amounts of a chemical messenger called glutamate or by lack of oxygen and glucose. The researchers then will determine whether compounds that prevent this type of damage can protect the fledgling nerve cells. They also

will find out whether a growth factor called neurotrophin-3, which is made by injured nerve tissue, makes these cells even more vulnerable to excitotoxic events. If so, they will determine how neurotrophin-3 acts and how its actions could be prevented.

The second project, headed by Eugene M. Johnson Jr., Ph.D., the Norman J. Stupp Professor of Neurology and professor of molecular biology and pharmacology, will explore the role of cell suicide — apoptosis — in the demise of precursor cells. After developing cell-culture models, the researchers will determine how apoptosis is induced by the fluid that accumulates at the injury site and how the properties of this fluid change with time. They then will genetically modify embryonic stem cells to make their descendants more resistant to apoptosis.

The third project, headed by John W. McDonald III, M.D., Ph.D., assistant professor of neurology, will examine the fate of transplanted precursor cells, determining survival rates and the cell types present at various time intervals. Building on the experiments with cultured cells, the investigators will attempt to improve transplant survival by using genetically modified cells and compounds that block excitotoxicity or apoptosis. They also will determine how the

transplants alter the anatomy, physiology and function of the injured spinal cord.

The fourth project, headed by Mark F. Jacquin, Ph.D., research professor of neurology, will determine how well transplanted cells integrate themselves into the circuits that enable the spinal cord to function. The researchers will find out how certain movements and reflexes correlate with the regrowth of specific nerve pathways to the spinal cord. Their hypothesis is that cell transplants preserve or restore sufficient connections across the injury site to improve function.

The four projects will be supported by an administrative and statistics core, headed by Choi; a genetic engineering core headed by David I. Gottlieb, Ph.D., professor of anatomy and neurobiology and of biochemistry and molecular biophysics; and an injury and functional assessment core headed by Chung Y. Hsu, M.D., Ph.D., professor of neurology.

Grants from the National Institute of Neurological Disorders and Stroke, the National Center for Research Resources, the Alan A. and Edith L. Wolff Charitable Trust, the Christopher Reeve Paralysis Foundation and the W.M. Keck Foundation enabled the researchers to perform the preliminary research that led to the program project award.

Roger Beachy to deliver second Science and Society lecture

Roger N. Beachy, Ph.D., president of the Donald Danforth Plant Science Center, will deliver the second lecture for the Science and Society Series at 4 p.m., Tuesday, March 28, in the School of Medicine's Cori Auditorium, 4565 McKinley Ave.

Beachy, who also is a professor of biology at the University, will discuss "Perceptions and Realities Regarding Genetically Modified Plants and Foods: Is Safety the Only Issue?"

Beachy's long-standing interest is elucidating how plant viruses thrive and spread to other plants and finding ways to genetically modify plants to resist infection by viruses.

After receiving a doctoral degree in plant pathology from Michigan State University in 1973, Beachy completed postdoctoral training at the

University of Arizona, Tucson, and at Cornell University, Ithaca, N. Y. He joined Washington University in 1978 as an assistant professor of biology. Beachy became a full professor in 1986, when he began directing the University's Center for Plant Science and Biotechnology.

In 1991, he went to The Scripps Research Institute in La Jolla, Calif., to head the plant biology division and co-direct the International Laboratory for Tropical Agricultural Biotechnology. He rejoined the Washington University faculty in 1999, the same year he began directing the Danforth Plant Science Center.

The five-part Science and Society Series from the Division of Biology and Biomedical Sciences was created to enhance awareness of policy and ethical issues faced by scientific and medical professionals.

Center has camp, kindergarten openings

St. Louis Children's Hospital Child Development Center has openings in its summer camp and in its kindergarten next fall.

The center is offering full- and part-time summer camp for children ages 5 through 10. Camp runs from June through August and is offered at both the Newstead and Clayton centers. Total enrollment is 60 children.

In the kindergarten program,

a morning curriculum with afternoon enrichment activities is offered daily. Full- and half-day programs are available at the Newstead center. The accredited program is taught by a certified elementary education teacher and a teacher's aide. Total enrollment is 20 children.

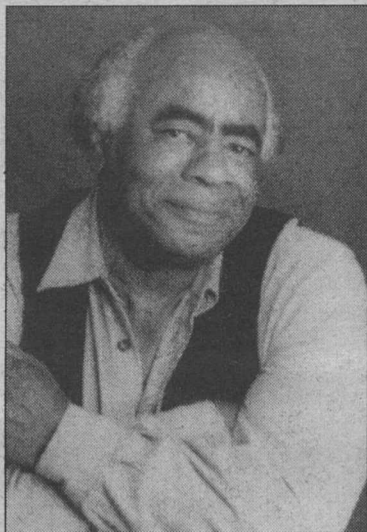
For more information about either of these programs or to receive enrollment forms, call 454-4700.

University Events

Weaving paths through poetry Anthony Zerbe, Roscoe Lee Browne at Graham Chapel

St. Louis audiences will get a head start on April's National Poetry Month when Anthony Zerbe and Roscoe Lee Browne, two of America's most seasoned actors, bring "Behind the Broken Words" to Graham Chapel in a special one-night-only performance at 8 p.m. March 31.

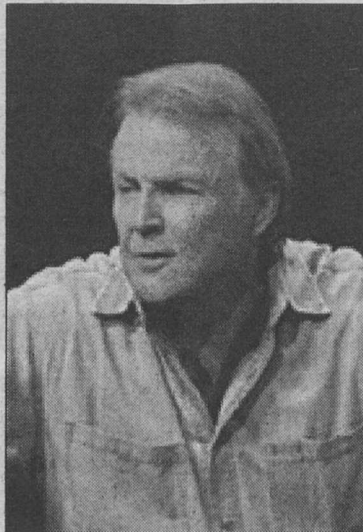
The show, part of the Edison Theatre OVATIONS! Series, is an eclectic mix of 20th-century poetry and prose that The Chicago Tribune calls "unconventional and striking." In it, Zerbe and Browne weave a path through some of the highlights of 20th-century literature, including works by Lawrence Ferlinghetti, Dylan Thomas, William Butler Yeats, Edna St. Vincent Millay and others. The show opens in complete darkness to the sound of e.e. cummings' "The Very Latest School in Art," which describes an artist who paints in the dark so as not to confuse art with reality. From there, the two performers — using little more



Roscoe Lee Browne

than voice, gesture and expression — create a dramatic montage that celebrates their love of poetry, their long-time friendship and a delight in the practice of their craft.

Zerbe and Browne first presented "Behind the Broken Words" in the late 1970s, premier-



Anthony Zerbe

ing to critical acclaim in New York City and Los Angeles. They began presenting the show again in 1996.

Browne launched his career with The New York Shakespeare Festival in Central Park. Since then he has appeared both on and off Broadway and in theater

festivals across the United States and Europe. His numerous awards include an Emmy for his appearances on "The Cosby Show" and both a Helen Hayes Award and Tony nomination for the role of Holloway in "Two Trains Running." In addition, Browne narrated the films "Babe" and "The Ra Expeditions," both of which received Oscar nominations. He has appeared as a dramatic speaker with numerous symphonies and orchestras, including the Saint Louis Symphony Orchestra.

Zerbe is recognized as one of America's most versatile actors, with a career spanning stage, television and film. His numerous awards include an Emmy for his role as Lt. Trench in the series

"Harry-O." For five summers, Zerbe was an artist in residence at London's Old Globe Theater, where his roles included Coriolanus, Iago, Richard III and Macbeth.

"Behind the Broken Words" is sponsored by the Edison Theatre

OVATIONS! Series and by the International Writers Center in Arts & Sciences, with support from the Missouri Arts Council, the Regional Arts Commission and The Heartland Arts Fund.

Tickets are \$25 for the general public and are available at the Edison Theater Box Office, 935-6543, or through MetroTix, 534-1111. Call for discounts. For more information, call 935-6543.

Title	
Who	Anthony Zerbe and Roscoe Lee Browne
What	"Behind the Broken Words"
Where	Graham Chapel
When	8 p.m. March 31
Tickets	\$25

Chicago • Nanoparticles • Big Chill • Virtual Report Card • Broken Words

"University Events" lists a portion of the activities taking place at Washington University March 23-April 1. Visit the Web for expanded calendars for the School of Medicine (medschool.wustl.edu/events/) and the Hilltop Campus (www.wustl.edu/thisweek/thisweek.html).

Exhibitions

"Bound(aries): Perspectives on Bookbinding." Through March 27. Fifth floor Olin Library. 935-5495.

"Juhani Pallasmaa: Works on Paper." Through April 7. Givens Hall. 935-6200.

Film

Friday, March 24

7 and 9:30 p.m. Filmboard Feature Series. "Lolita." (Also March 25, same times, and March 26, 7 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Midnight. Filmboard Midnight Series. "Invasion of the Body Snatchers." (Also March 25, same time, and March 26, 9:30 p.m.) Cost: \$3 first visit, \$2 subsequent visits. Room 100 Brown Hall. 935-5983.

Wednesday, March 29

6 p.m. Chinese Film Series. "The Herdsman." (English and Arabic subtitles.) Sponsored by Asian and Near Eastern languages and literatures dept. Room 219 Ridgley Hall. 935-5156.

Friday, March 31

7, 9:30 p.m. and midnight. Filmboard Feature series. "Being John Malkovich." (Also April 1, same times, and April 2, 7 and 9:30 p.m.) Cost: \$3 first visit, \$2

subsequent visits. Room 100 Brown Hall. 935-5983.

Lectures

Thursday, March 23

11 a.m.-Noon. Digital Cultural Resources Group lecture. "Building the Chicago Image Base, a Web-based Project About the Built Environment of the Chicago Region." Robert Brueggemann, prof. of art history, U. of Ill. Room 252 Olin Library. 935-5466.

Noon-1 p.m. Genetics lecture. "Making Sense of Genomes Comparative Analysis and Not Getting Snowed by the Exceptions." Gary Olsen, U. of Ill., Urbana-Champaign. Room 823 McDonnell Medical Sciences Bldg. 362-7072.

4 p.m. Anesthesiology's C.R. Stephen Lecture. "The Neurochemistry of Acute and Persistent Pain." Allan I. Basbaum, prof. and chair of anatomy, U. of Calif., San Francisco. Eric P. Newman Education Center. 454-8701.

4 p.m. Cardiovascular research seminar. "The Duel of Virus and Host Continues: Genetic and Biochemical Determinates." Bruce McManus, prof. and head of pathology and laboratory medicine, U. of British Columbia. Room 801 Clinical Sciences Research Bldg. 362-8901.

4 p.m. Chemistry's Bayer Distinguished Lecture. "From Benzene to Shape-persistent Nanoparticles." Klaus Müllen, Max-Planck Institute for Polymer Research, Mainz, Germany. Room 458 Louderman Hall (reception following). 935-7316.

4:15 p.m. Philosophy colloquium. "The Early Modern Logic of Ideas." Thomas Lennon, prof. of philosophy, U. of Western Ontario. Room 216 Psychology Bldg. 935-6670.

4:30 p.m. Mathematics colloquium. Steven Boyer, prof. of mathematics, U. of Quebec, Montreal. Room 199 Cupples I

Hall (tea 4 p.m., Room 200). 935-6726.

5 p.m. Vision Science Seminar Series. "Myocilin/TIGR in the Optic Nerve Head: Could It Play a Role in Glaucoma?" Cynthia S. Ricard, instructor of ophthalmology and visual sciences. East Pavilion Aud., Barnes-Jewish Hospital Bldg. 362-5722.

7 p.m. Architecture's Monday Night Lecture Series. Gwendolyn Wright, prof. of architectural history, Columbia U. Steinberg Hall Aud. 935-6200.

Friday, March 24

9:15 a.m. Pediatrics' Chief Residents' Invited Lecture.

"Technology and the Transformation of American Medicine." Joel D. Howell, prof. of internal medicine, of health management and policy and of history, U. of Mich. Clopton Aud., 4950 Children's Place. 454-6006.

11 a.m. Chemistry's Bayer Distinguished Lecture. "A Discovery Journey in Polymer Synthesis." Klaus Müllen, Max-Planck Institute for Polymer Research, Mainz, Germany. Room 311 McMillen Lab. 935-7316.

Noon. Cell biology and physiology seminar. "The Yeast Nuclear Pore Complex: Composition, Architecture and Transport Mechanism." Michael P. Rout, Laboratory of Cellular and Structural Biology, Rockefeller U. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

Noon-1 p.m. Gastroenterology research conference. "Pancreatic Lipase Related Protein 2 and Dietary Fat Digestion." Mark E. Lowe, assoc. prof. of molecular biology and pharmacology and of pediatrics. Room 901 Clinical Sciences Research Bldg. 362-8951.

4 p.m. Anatomy and neurobiology seminar. "The Big Chill: New Insights Into Aberrant Signal Transduction Mechanisms in Alzheimer's Disease." Nancy L. Baenziger, research assoc. prof. of anatomy and neurobiology. Room 928 McDonnell Medical Sciences Bldg. 362-7043.

4 p.m. Foreign Language Pedagogy Colloquium Series. "Teaching and Learning With Technology: A Virtual Report Card." Roberta Lavine, chair and assoc. prof. of Spanish and Portuguese languages/literatures, U. of Md. Room 162 McDonnell Hall. 935-4449.

Monday, March 27

Noon. Lung biology conference. "The Heparin Binding Site of Fibrillin 1." Tim Ritty, fellow in cell biology and physiology. Room 801 Clinical Sciences Research Bldg. 362-8983.

Noon-1 p.m. Molecular biology and pharmacology seminar. "Heparan Sulfate Proteoglycans in Growth and Development." Scott Saunders, asst. prof. of

Poet Carl Phillips reading from work

Poet Carl Phillips, associate professor of English and African and Afro-American Studies, both in Arts & Sciences, will read from his work for the Creative Writing Program Reading Series at 8 p.m. Thursday, March 23. The reading is free and open to the public and takes place in Hurst Lounge, Room 201 Duncker Hall.

Phillips is the author of four books of poetry — "From the Devotions," "Cortège," "In the Blood" and "Pastoral," which was published early this year. His translation of Sophocles' "Philoctetes" is forthcoming from Oxford University Press.

Phillips has received awards from the Guggenheim Foundation, the Massachusetts Artists

Foundation and the Academy of American Poets.

A native of Boston, Phillips earned a bachelor's degree in



Poetry Reading

Who Carl Phillips

Where Hurst Lounge, Room 201 Duncker Hall

When 8 p.m. March 23

Admission Free and open to the public

Greek and Latin from Harvard University in 1981 and a master's degree in Latin and classical humanities from the University of Massachusetts-Amherst in 1983. He received a master's degree in creative writing from Boston University in 1993 and arrived at Washington University later that year.

For more information, call 935-7130.

pediatrics and adjunct assoc. prof. of molecular biology and pharmacology. Room 3907 South Bldg. 362-2725.

Noon-1 p.m. Work, Families and Public Policy Seminar Series. "A Theory of the Misallocation of Time." Nancy Folbre, prof. of economics, U. of Mass., Amherst. Room 300 Eliot Hall. 935-4918.

4 p.m. Biology seminar. "Is Sympatric Speciation Via Ecological Shift 'Provable'? General Approaches, and the Complex Reality of Sequence Evolution in the *Rhagoletis Pomonella* Group." Stewart H. Berlocher, entomology dept., U. of Ill., Urbana-Champaign. Room 322 Rebstock Hall. 935-6868.

4 p.m. Immunology Research Seminar Series. "The Role of LIM Proteins in Cell Proliferation and Differentiation Decisions." Gregory D. Longmore, assoc. prof. of cell biology and physiology and of medicine. Eric P. Newman Education Center. 362-2763.

4 p.m. Physics' condensed matter/materials seminar. "Spin Density Wave in Quasi-one Dimensional Organic Superconductor." Keizo Murata, prof. of material science, Osaka City U., Japan. Room 241 Compton Hall (coffee 3:45 p.m.). 935-6276.

Tuesday, March 28

Noon-1 p.m. Alzheimer's Disease Research Center conference seminar. "Neurochemical, Neuroanatomical and Genetic Modulation of Fear Conditioning." Mark Bardgett, research asst. prof. of psychiatry. East Pavilion Aud., Barnes-

Jewish Hospital Bldg. 286-2881.

Noon. Molecular Microbiology and Microbial Pathogenesis Seminar Series. "Mosquito-borne Diseases and Vector Competence: Can We Build a Better Mosquito?" Bruce Christensen, prof. of animal health and biomedical sciences, U. of Wis. Cori Aud., 4565 McKinley Ave. 362-8874.

4 p.m. Anesthesiology research seminar. "Molecular Mechanisms of KATP Channel Activity." Colin Nichols, assoc. prof. of cell biology and physiology. Room 5550 Clinical Sciences Research Bldg. 362-8560.

4 p.m. Science and Society Series lecture. "Perceptions and Realities Regarding Genetically Modified Plants and Foods: Is Safety the Only Issue?" Roger N. Beachy, prof. of biology and pres. of the Donald Danforth Plant Science Center. Sponsored by the Division of Biology and Biomedical Sciences. Cori Aud., 4565 McKinley Ave. 362-3364. See story on page 3.

Wednesday, March 29

8 a.m. Obstetrics and Gynecology Grand Rounds. "Female Circumcision." Hoosna Hauque, chief resident in obstetrics and gynecology. Clopton Aud., 4950 Children's Place. 362-1016.

11 a.m. Assembly Series. "A Woman's Perspective on the Congress and Politics." Linda Wertheimer, National Public Radio host. Graham Chapel. 935-5285. See story on page 2.

Historian lecturing here March 30 on white supremacy, anti-Semitism

George E. Fredrickson, the Edgar E. Robinson Professor of United States History at Stanford University, will discuss "White Supremacy and Anti-Semitism: An Historical Comparison" at 6:30 p.m. March 30 in Room 204, Anheuser-Busch Hall.

Fredrickson's current research focuses on the historical construction of race and racism in the United States, South Africa and Europe. He is also an authority on 19th-century American intellectual history. His most recent books are "Black Liberation: A Comparative History of Black

Ideologies in the United States and South Africa" and "The Comparative Imagination: On Racism, Nationalism and Social Movements."

Fredrickson received a Ph.D. from Harvard University. He is past president of the Organization of American Historians, one of the sponsors of the March 30 lecture along with the Department of History and the African and Afro-American Studies Program, both in Arts & Sciences.

For more information, call 935-5690.

'Imaginary Invalid' on Edison stage

By LIAM OTTEN

Fad diets and HMOs, health care debates and television dramas — even the quackiest of observers can diagnose the symptoms of our national obsession with health. What better time, then, for an all-new production of “The Imaginary Invalid,” Jean-Baptiste Molière’s rollicking spoof of doctors and the medical profession?

The Performing Arts Department (PAD) in Arts & Sciences will present a new translation and adaptation of the French classic on the Edison Theatre mainstage at 8 p.m. March 31 and April 1, with a matinee at 3 p.m. April 2. Performances continue the following week at 8 p.m. April 7 and 8, with a matinee at 3 p.m. April 9.

“The Imaginary Invalid” tells the story of Argan, an aging hypochondriac who, in search of free medical attention, attempts to wed his daughter Angelique to the bungling doctor Thomas. Angelique, however, loves the young Cleante and resists her father’s plan with the help of Beralde, her level-headed uncle, and Toinette, the outspoken maid. Using little more than wit, humor and a fair degree of trickery, the trio conspires to rid Argan of his foolish ideas on the equally

“The Imaginary Invalid”

Where Edison Theatre

When 8 p.m. March 31, April 1, 7, 8; 3 p.m. April 2, 9

Tickets \$10; \$8 for senior citizens and Washington University faculty, staff and students

difficult, deceptive and arcane fields of medicine and marriage.

“I think health concerns are in the air right now,” said William Whitaker, PAD artist-in-residence, who directs the 18-member cast. “Diets, political debates, St. John’s Wort — I think we have a perpetual desire to find a cure for mortality, which is, of course, exactly what Molière lampoons.”

Whitaker, himself the son of a surgeon, also pointed out that “The Imaginary Invalid” was Molière’s final play and initially starred the playwright himself as the phlegmatic Argan. However, the author took sick with a coughing fit during only the fourth performance and died soon after the curtain fell.

“As funny and lighthearted as the play is, there is a darker, more serious side as well,” Whitaker noted. “He probably started writing it because he had that

cough and it’s what he’d be able to play as an actor. And I think he was of two minds about medicine — on the one hand, he wants to believe in the possibility of healing, but there’s also this existential voice that tells him to let nature take its course.”

The new translation is a collaborative effort between Whitaker and Paul Azzara, a teacher with the Alliance Française in St. Louis. Whitaker first approached Azzara about the project last summer.

“Paul seemed ideal for the work,” Whitaker recalled. “He has a terrific sense of humor, he loves the theater and he shares my enthusiasm for Molière. Luckily for me, he agreed to do it.”

The new production also features an original score by St. Louis composer Jeff Noonan and original choreography by Christine O’Neal, artist in residence and director of the PAD’s ballet program. The set design is by Christopher Pickart, artist in residence, with costumes by Bonnie Kruger, senior artist in residence.

Tickets are \$10 for the general public and \$8 for senior citizens and Washington University faculty, staff and students. Tickets are available at the Edison Theatre Box Office, 935-6543, and at all MetroTix outlets, 534-1111. For more information, call 935-5858.



Sophomore Sam Reiff-Pasarew and graduate student Jennifer Worth star as Argan and Beline in “The Imaginary Invalid,” Jean-Baptiste Molière’s rollicking spoof of doctors and the medical profession.

3:45 p.m. Physics colloquium. “Structure of Superheavy Elements Limits of Nuclear Mass and Charge.” Witold Nazarewicz, physics and astronomy dept., U. of Tenn. Room 204 Crow Hall (coffee 3:30 p.m., Room 241 Compton Hall). 935-6276.

4 p.m. Biochemistry and molecular biophysics seminar. “tRNA Processing: Synergy of the Protein and RNA Subunits in the Mechanism of Ribonuclease P.” Carol Fierke, prof. of chemistry, U. of Mich., Ann Arbor. Cori Aud., 4565 McKinley Ave. 362-0261.

Thursday, March 30

10:30 a.m. Center for Mental Health Services Research seminar. “WHODAS II: Measuring the Burden of Disease and Disorder.” JoAnn Epping-Jordan, scientist, World Health Organization, Geneva. Room 205 Brown Hall. 935-5687.

2:30 p.m. Mechanical engineering seminar. “Modeling and Development of Nanometer Aerosol Instruments.” Da-Ren Chen, asst. prof. of mechanical engineering, particle technology lab., U. of Minn., Minneapolis. Room 100 Cupples II Hall. 935-6047.

4 p.m. Assembly Series. “The Politics of Theater/The Theatricality of Politics in the Ancient Roman World.” Eleanor Leach, author and the Ruth N. Halls Prof. of Classical Studies, Ind. U. Graham Chapel. 935-5285. *See story on page 2.*

4 p.m. Cardiovascular research seminar. Christine Lorenz, asst. prof. of biomedical computing and of biomedical engineering and dir., Center for Cardiovascular Magnetic Resonance. Room 801 Clinical Sciences Research Bldg. 362-8901.

4:30 p.m. Mathematics colloquium. Lucian Badescu, prof. of mathematics, U. of Bucharest, Romania, and U. of Calif., Los Angeles. Room 199 Cupples I Hall (tea 4 p.m., Room 200). 935-6726.

5 p.m. Vision Science Seminar Series. “Structural and Functional Studies of Metabotropic Glutamate Receptors.” Carl Romano, assoc. prof. of ophthalmology and visual sciences. East Pavilion Aud., Barnes-Jewish Hospital Bldg. 362-5722.

6:30 p.m. History lecture. “White Supremacy and Anti-Semitism: An Historical Comparison.” George E. Fredrickson, the Edgar E. Robinson Prof. of U.S. History, Stanford U. Sponsored by the Organization of American Historians, the history dept. and the African and Afro-American Studies Program. Room 204 Anheuser-Busch Hall. 935-5690. *See story on page 4.*

7 p.m. Architecture’s Monday Night Lecture Series. “Custom Built.” Allan Wexler, artist, Brooklyn, N.Y. Steinberg Hall Aud. (reception 6:30 p.m., Givens Hall). 935-6200. *See story on page 6.*

Friday, March 31

9:15 a.m. Pediatric Grand Rounds. “The Judicious Use of Antibiotics.” Penelope G. Shackelford, prof. of pediatrics, assoc. prof. of molecular microbiology and dir. of pediatric ambulatory medicine div. Clopton Aud., 4950 Children’s Place. 454-6006.

Noon-1 p.m. Alzheimer’s Disease Research Center seminar. “Protein Conformation in Neurodegenerative Diseases.” Thomas Wisniewski, assoc. prof. of neurology and pathology, N.Y. U. School of Medicine. Schwarz Aud., first

floor, Maternity Bldg. 286-2881.

Noon-1 p.m. Gastroenterology research conference. James Mu and Greg Gurtner, fellows in gastroenterology. Room 901 Clinical Sciences Research Bldg. 362-8951.

1 p.m. Philosophy colloquium. “Moral Dimensions of Embodied Perception.” Kate Parsons, graduate student. Room 101 Duncker Hall. 935-6670.

1:30 p.m. African and Afro-American studies lecture. “Bad Boys: Public Schools and the Construction of Black Masculinity.” Ann Arnett Ferguson, prof. of African and Afro-American studies, Smith College, Northampton, Mass. Co-sponsored by programs in American culture studies, social thought and analysis and women’s studies and depts. of education and political science. Room 300 Eliot Hall. 935-5810.

Music

Thursday, March 23

8:30 p.m. Holmes Jazz Series. Linda Presgrave Quartet. Holmes Lounge, Ridgley Hall. 935-4841.

Friday, March 24

7 p.m. Concert. “Splash of Color.” The Mosaic Whispers, a cappella student group. (Also March 25, same time.) Cost: \$5. Graham Chapel. 935-1665.

On stage

Friday, March 31

8 p.m. OVATIONS! Series. “Behind the Broken Words.” Anthony Zerbe and Roscoe Lee Browne, actors. Cost: \$25. Graham Chapel. 935-6543. *See story on page 4.*

8 p.m. Performing Arts dept. play. “The Imaginary Invalid.” William Whitaker, dir. (Also March 31, April 1, 7 and 8, same time, and April 2 and 9, 3 p.m.) Cost: \$10, \$8, senior citizens and WU faculty, staff and students. Edison Theatre. 935-6543.

Sports

Thursday, March 23

2 p.m. Women’s softball at Florissant Valley Community College. 935-5220.

Friday, March 24

3:30 p.m. Women’s and men’s track and field. WU Mini Meet. Bushyhead Track and Francis Field. 935-5220.



4 p.m. Women’s tennis vs. SIU-Edwardsville. Tao Tennis Center. 935-5220.

Saturday, March 25

10:45 a.m. Men’s baseball vs. Milwaukee School of Engineering. Kelly Field. 935-5220.

1:15 p.m. Men’s baseball vs. Illinois Wesleyan U. Kelly Field. 935-5220.

Sunday, March 26

10:45 a.m. Men’s baseball vs. Milwaukee School of Engineering. Kelly Field. 935-5220.

1:15 p.m. Men’s baseball vs. Illinois Benedictine U. Kelly Field. 935-5220.

Tuesday, March 28

4 p.m. Women’s softball vs. Saint Mary’s of the Woods College. Softball field. 935-5220.

Friday, March 31

4 p.m. Women’s tennis vs. Augustana College (Ill.). Tao Tennis Center. 935-5220.

Saturday, April 1

9:30 a.m. Women’s tennis vs. U. of Chicago. Tao Tennis Center. 935-5220.



And more...

Thursday, March 23

11 a.m. Design, Modernity and American Cities symposium. “What’s in a Plan?” Gwendolyn Wright, prof. of architectural history, Columbia U., and Robert Duffy, editor, St. Louis Post-Dispatch. (Continues through March 25.) Givens Hall. 935-6293.

8 p.m. Creative Writing Program Reading Series. Carl Phillips, poet and assoc. prof. of English and of African and Afro-American studies, will read from his work. Hurst Lounge, Room 201 Duncker Hall. 935-7130. *See story on page 4.*

Monday, March 27

6 p.m. Continuing Medical Education. Internal medicine board review. (Continues Mondays through May 22.) Cost: \$595, physicians, and \$375, residents/fellows, allied health professionals. Eric P. Newman Education Center. 362-6891.

Friday, March 31

2 p.m. 2000 Heart of America Patent Law and Policy conference. “Re-engineering Patent Law: The Challenge of New Technologies.” Randall R. Rader, federal circuit judge. (Continues through April 1.) Cost: \$220, before March 23, \$240, after March 23, \$20, students. Anheuser-Busch Hall. 935-7244. *See story on page 2.*

Sports Section

Women hoopsters win another crown!

Loyal University fans who traveled to Danbury, Conn., for the NCAA Division III championships last weekend got their money’s worth and more as the women’s basketball team laid claim to its third straight national title Saturday, March 18, overwhelming the University of Southern Maine by a score of 79-33. WU becomes the first team in women’s Division III history to win three straight national titles and just the second team in NCAA basketball history — all divisions, men or women — to record back-to-back undefeated national championship seasons. The Bears also stretched their NCAA women’s all-divisions record winning streak to 68 games.

The win over Southern Maine capped a dominating weekend for the Bears, who had downed the University of Scranton, 64-30, in the national semifinals the night before.

Most of Saturday’s damage was done without the All-America duo of Alia Fischer and Tasha Rodgers. Both went to the bench just over four minutes into the game with two fouls apiece and an 11-5 WU lead. The reserves responded, though, by ripping off a 24-5 run to go up 35-10 with 2:31 left in the first half. Fischer and Rodgers stayed on the bench as the Bears went into the locker room with a 38-17 lead. The pair finally got back into the game at the start of the second half, and Rodgers wasted no time scoring 10 of WU’s next 17 points. The run pushed the lead to 55-24, and Southern Maine would get no

closer than 30 points the rest of the way.

Senior Beth Ruether led all scorers with 16 points, including a four-for-six effort from beyond the three-point line, while Rodgers finished with 14 points, and Fischer tallied 13 points and a game-high 11 rebounds. Lindsey Merrill came off the bench to net six points and nine rebounds.

In the semifinals, WU held Scranton to just 30 points — including 11 in the second half — and just 21 percent shooting. The Bears held a 33-19 halftime lead and allowed just four field goals in the second half. Rodgers led all scorers with 17 points; Fischer tallied 11, and Ettner scored 10.

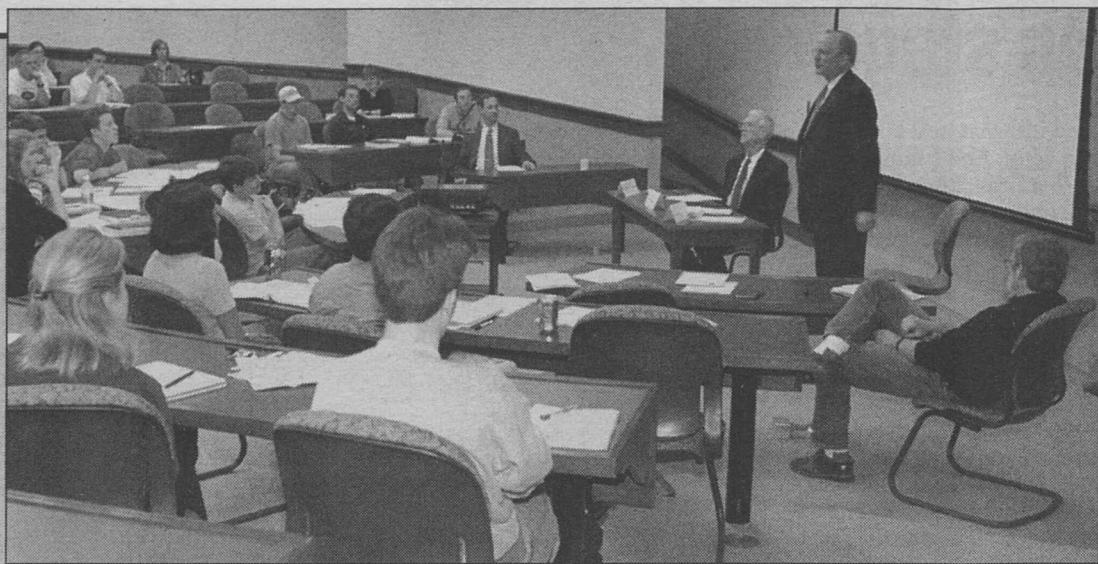
Women netters win

The women’s tennis team improved to 6-5 on the year with three wins last week. The Bears

downed DePauw University 7-2 March 18 before picking up wins over Wittenberg University, 6-1, and Kalamazoo College, 6-0, Sunday, March 19. Freshman Steph Cook had a strong weekend, picking up five wins.

Baseball beats foe

The baseball team raised its record to 12-4 with a stellar comeback win over regional power Wartburg College 8-6 Friday, March 17. For the first five and a half innings, the Bears struggled just to get the ball out of the infield and trailed 6-1. But pinch hitter Kevin Lux got a seven-run rally started with an RBI double in the bottom of the sixth and added his second hit of the inning, an RBI single, to finish the comeback.



Textbook case St. Louis attorney and School of Law alumnus Ned Lemkemeier describes the 1999 St. Louis desegregation settlement, achieved under the leadership of William H. Danforth, chancellor emeritus and vice president of the board of trustees (seated at Lemkemeier's right), during a March 15 meeting of the new undergraduate Supreme Court in United States History course. School of Law Dean Joel Seligman, J.D., the Ethan A.H. Shepley University Professor, and Leigh Greenhaw, J.D., visiting associate professor of law, teach the course. D. Bruce La Pierre, J.D. (right), professor of law, negotiated an initial 1983 settlement in the case. The visitors highlighted the decades-long history of St. Louis desegregation following the U.S. Supreme Court's landmark Brown vs. Board of Education ruling.

MARY BILITUS

Symposium examines issues facing Asia

The legal rights of indigenous peoples, decentralization in the communist nation-state of China, paternalism in Korea and causes of globalization are among the topics to be discussed on campus April 8-9 as the University launches the first in a series of Asia issues symposia.

Free and open to faculty and students, the symposium features presentations and panel discussions by an interdisciplinary group of University faculty and other leading authorities on Asian development, globalization and decentralization. The event runs from 9:30 a.m. to 4:30 p.m. April 8 and from 9:30 a.m. to noon April 9.

Titled "Development and the Nation-State in the Crosscurrents of Globalization and Decentralization," the gathering will examine whether nation-states can remain relevant to social and economic development in the face of increasingly powerful and divergent global pressures.

"Development has been one of the most powerful structuring influences on the social and economic transformations in the non-Western world in the past 50 years, and the nation-state has played a central role in that process," said Gautam Yadama, Ph.D., associate professor of social work and the symposium's primary organizer.

"Some would argue that globalization and the opening of economies have made the nation-state increasingly irrelevant, while

The registration deadline for the Asia issues symposium is March 27. For more information, visit the symposium Web site (<http://artsci.wustl.edu/~symp2000>) or call Patricia Welch at 935-8647.

others contend that individual nations, especially those in developing areas such as Asia, must be more aggressive than ever in efforts to protect their citizens from the shocks of an inevitably transnational and global economy."

The Asia symposia series was conceived as part of a broader University program known as the Asia Initiative, a campus-wide effort launched several years ago to strengthen ties to Asia. The Committee on International Relationships, chaired by Edward S. Macias, Ph.D., executive vice chancellor and dean of Arts & Sciences, is sponsoring the symposium.

The George Warren Brown School of Social Work and its Center for Social Development (CSD) are providing additional support. A number of undergraduate students also have been actively involved in planning the symposium and in developing a Web site for symposium information.

The April symposium is scheduled to be held in the faculty conference room of Goldfarb Hall at the social work school. Seating is limited and admission will be on a

first-come, first-served basis. Registration is required and urged by March 27. To register, call Patricia Welch at 935-8647 or sign up by e-mail (welchp@gwbmail.wustl.edu).

Based on the volume of early registrations, the event might be moved to a larger venue. For news updates, participant biographical information and abstracts of papers to be presented, visit the symposium Web site (<http://artsci.wustl.edu/~symp2000>).

Washington University faculty participants are:

- John R. Bowen, Ph.D., the Dunbar-VanCleve Professor and professor of anthropology in Arts & Sciences;

- Jean Ensminger, Ph.D., the Tileston Professor of Political Economy and professor of anthropology in Arts & Sciences;

- Jack Knight, Ph.D., professor and chair of political science in Arts & Sciences;

- Douglass C. North, Ph.D., 1993 Nobel laureate in economic sciences and the Spencer T. Olin Professor in Arts & Sciences;

- Michael Sherraden, Ph.D., the Benjamin Youngdahl Professor of Social Development and CSD director; and
- Andrew Sobel, Ph.D., associate professor of political science in Arts & Sciences.

Visiting scholars from the Ford Foundation, Korea Development Institute and Harvard, Indiana, Stanford, Syracuse and Yale universities also will speak.

Series explores varied approaches to design

Looking at architecture from a variety of perspectives — philosophical, historical, international and others — is the agenda for the School of Architecture's Monday Night Lecture Series this spring, which features distinguished practitioners and cutting-edge approaches to design. The lectures, held at 7 p.m. in Steinberg Hall Auditorium, are:

- "Custom Built," by New York artist Allan Wexler, March 30, co-sponsored by the University's Visual Arts and Design Center (VADC). A traveling exhibit of his work by the same name is on view from 10 a.m. to 5 p.m. Tuesday through Saturday, March 31-May 13, at the St. Louis Forum for Contemporary Art, 3540 Washington Blvd.

- "Hapticity and Time: Notes on Fragile Architecture," by Finnish architect, designer, educator and critic Juhani Pallasmaa, April 3. Pallasmaa, the school's Raymond E. Maritz Visiting Professor, was previously director of the Museum of Finnish Architecture and dean and professor of architecture at the Helsinki University of Technology.

- "The Abstraction of Landscape" by renowned architectural historian William Curtis, the school's Ruth and Norman Moore Visiting Professor, April 6. Curtis is the author of the influential books "Modern Architecture since 1900" and "Le Corbusier: Ideas

and Forms."

- "Architectural Drawing, Narrative Presentation and Environmental Color" by London designer and color theorist Tom Porter, April 10. Porter is a senior lecturer and co-chair of the graduate program at the Oxford School of Architecture, England. Author of 18 books, Porter was the developer and on-camera presenter of the six-program BBC documentary "The Color Eye."

- "In Dialogue," a joint lecture by Curtis and Pallasmaa, April 12. The lecture, co-sponsored by the VADC, will present a unique opportunity for a combined set of reflections on contemporary architecture by a leading architectural historian and a distinguished architect and critic.

Additionally, New York architect James Stewart Polshek will discuss his recent work April 26. Polshek has received recent acclaim for his firm's high-tech glass and steel designs for the new Rose Center for Earth and Space at the American Museum of Natural History in New York.

The School of Architecture and the Student Union sponsor the lectures, which are preceded by a 6:30 p.m. reception in Givens Hall. Graduate students on the lecture committee are Bradley Shanks, David Wolff, Michael Antkowiak, Kathryn Friedman and Karl Gustafson.

For more information, call 935-6200.

Managers

Business students create currency fund

— from page 1

investments for the benefit of others — in other words, being in the role of agent or fiduciary. Students analyze the needs of prospective "clients," such as university endowments, insurance companies, pension funds and corporate treasurers.

"We want them to learn about managing money and reporting to clients," said Heber Farnsworth, Ph.D., assistant professor of finance and one of two faculty teaching the course. "I don't teach the course in the traditional sense. I just ask: 'Are you going to be able to justify this (decision) to the advisory committee?'" Also teaching the course is William J. Marshall, Ph.D., chief operating officer of Clayton-based NISA Investment Advisors L.L.C. and adjunct professor of finance.

Students managing the currency fund, named the Stern Global Investment Fund, hope to do as well as those managing the equity fund. Equity-fund students invest primarily in liquid domestic equities, including blue-chip and high-tech stocks, trying to meet or exceed the return from the

S&P 500, a Standard & Poor's index based on the average performance of 500 widely held stocks.

Since its inception, the equity fund has enjoyed a 58 percent return, going from \$300,000 to more than \$525,000 today. Because last semester's students invested in the highly successful Qualcomm stock, they had an outstanding return, and, since the course began, each class' performance has been near or above that of the S&P 500 index.

"The students have done very well," said Barbara Feiner, MBA '83, vice chancellor for finance and a member of the fund's advisory board. "I wish there had been a similar course when I was in school."

Currency-fund students have an additional incentive. The spendable portion of endowment income from it will support Stern Family Scholarships for deserving business students. "Investing is my passion," Mickey Stern said, "and I wanted business students to be able to learn about many aspects of it firsthand. By initiating this fund and providing scholarships, we're making a wise and lasting investment in students and the future." The Sterns own Moss & Associates, a wholesale and retail furniture company, are active in numerous University groups and serve on many youth and educational boards.

Employment

Use the World Wide Web to obtain complete job descriptions. Go to cf6000.wustl.edu/hr/home (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.

Reading Specialist (part time) 980130
Medical Science Writer 980189
Manager 990233
Gift Accountant 990244
Contract Management Liaison 990261
Contract Management Liaison 990262
Director/Executive Faculty Liaison 990280
Engineering Librarian 990364
Career Development Specialist 990374

Counselor 000014
Regional Director of Development 000057
Administrative Secretary 000065
LAN Engineer 000094
Library Assistant 000099
Insurance Assistant 000101
Secretary/Technical Typist (part time) 000102
Head of Access 000116
Assistant University Webmaster 000118
Supervisor, Help Desk and E-mail Administration 000144
Assistant Director, Management Systems 000149
Administrative Coordinator 000160
Library Technical Assistant for Islamic Studies 000162

University Web Editor 000164
Lab Technician III 000167
Lab Technician III 000168
Communications Technician I 000188
Researcher 000190
Research Assistant 000191
Data Entry Operator 000199
Officer 000202
Seismic Data Analyst (part time) 000203
Department Secretary 000209
Researcher 000212
Accountant 000220
Department Secretary 000222
Administrative Secretary 000223
Assistant Director of Admissions 000224
Associate Director, Student Health and Counseling 000226

Administrative Coordinator 000227
Sales Associate (part time) 000229
Manuscripts Cataloger (temporary) 000230
Assistant Director of Development 000232
Application Processor II 000236
Coordinator, Multicultural Student Groups 000237
Insurance Analyst 000238
Systems Manager 000239
Manager of Employer Relations 000240
Lab Technician III 000241
Manager of Gift/Endowment and Investment Accounting 000243
Administrative Aide 000244

Administrative Secretary (part time) 000245
Residential College Director 000248
Director, Carolyn Roehm Electronic Media Center 000250
Department Secretary 000251
Research Technician 000256
Contract Management Liaison 000258
Administrative Coordinator, External Relations 000259
Administrative Secretary 000261

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.

Professional Rater (part time) 000299
Research Technician 001003
Insurance Billing and Collections Assistant II 001056
Medical Secretary I (part time) 001272
Secretary I 001352
Staff Scientist 001358
Research Technician I 001384
Research Technician II 001385
Patient Services Representative II 001463
Research Technician II 001473

Campus Watch

The following incidents were reported to University Police from March 13-19. Readers with information that could assist in investigating these incidents are urged to call 935-5555. This release is provided as a public service to promote safety awareness and is available on the University Police Web site at rescomp.wustl.edu/~wupd.

March 16

8:49 a.m. — A Tarlton Corp. superintendent reported that someone stole three wooden construction signs, valued at \$900, from the Charles F. Knight Executive Education Center site. A fourth sign was pulled from the ground.

March 18

8:12 p.m. — A student reported that someone stole

her mountain bicycle, valued at \$350, from a handrail on the west side of Hurd Residence Hall. The bicycle was secured with a lock, but was not properly attached to the handrail.

University Police also responded to four additional theft reports, three auto accidents, two reports of property damage, one disorderly conduct report and one drug offense.

Notables

Of note

Ryan Bair, Kevin Carr, Ron Laboray, Ashley Lawson, and Kim Wynne — all master's candidates in the School of Art — recently showcased their work in the exhibition "New Art from St. Louis" at Illinois Wesleyan University. The show ran from Jan. 14 to Feb. 3 in the university's Merwin and Wakeley galleries. ...

Tamara L. Doering, M.D., Ph.D., assistant professor of molecular microbiology, recently received a one-year \$97,500 grant from Neose Technologies for a project titled "The Polysaccharide Capsule of *Cryptococcus Neoformans*: Biosynthesis of a Fungal Virulence Factor." ...

Bijoy K. Ghosh, Ph.D., professor of systems science and mathematics in the School of Engineering and Applied Science, was elected a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), effective Jan. 1. The honor is the IEEE's highest membership grade. Ghosh was cited for "fundamental contributions to systems theory with applications to robust control, vision and multisensor fusion." ...

Joan Hall, professor of printmaking and drawing; **Peter Marcus**, emeritus professor of printmaking and drawing; and **Tom Huck**, lecturer in printmaking and drawing — all faculty in the School of Art — will exhibit their work at the Jocelyn

Art Museum in Omaha, Neb. The "Midlands Invitational 2000: Works on Paper," which runs from May 13 to July 2, features a total of 18 artists from a seven-state area. Hall also was one of nine artists invited to show their work in "Big Impressions," a recent exhibition of large-scale prints at the University of Rhode Island. ...

Joan E. Lipkin, artist in residence in the Performing Arts Department in Arts & Sciences, was selected as one of five recipients of the 2000 Missouri Arts Awards. Lipkin was presented with the award Feb. 9 in the capitol rotunda in Jefferson City. The award is the state's highest honor given to individuals and institutions that have made profound and lasting contributions to the state's cultural and artistic landscape. Winners were selected by a panel of Missouri citizens with knowledge and experience in the arts.

On assignment

William H. Gass, Ph.D., the David May Distinguished University Professor Emeritus in the Humanities, director of the International Writers Center, both in Arts & Sciences, and author of the recently released book "Reading Rilke," was a featured participant in a "Tribute to Rilke," at the 92nd Street Y/Unterberg Poetry Center in New York, along with Michael Hofmann, Edward Snow, Stephen Mitchell and Galway Kinnell.

Women's basketball victory nets scholarship

Washington University's victory in last year's NCAA Division III women's basketball championship game has made a winner out of another yet-to-be-named Washington University student, as the



Fahey: Led Bears to national title

University recently received a \$2,500 academic scholarship award from the Women's Basketball Coaches Association (WBCA). The Sears/WBCA Division III Women's Collegiate Basketball Championship Trophy Scholarship, which was received by head coach Nancy Fahey and forwarded to David Blasingame, vice chancellor for alumni and development programs, is earmarked for a non-athlete who contributes to the women's basketball program.

More than \$250,000 in academic scholarships is presented each year by Sears, which recognizes every sport and

conference and national team champion in all women's and men's sports.

Fahey has led the Bears to three consecutive NCAA Division III basketball championships, including last Saturday's 79-33 win over Southern Maine University. Within that span, the Red and Green have won a record 68 games in succession. Since Fahey's arrival in 1986, the Bears have netted a 324-61 record (for an .842 winning percentage), made five trips to the final four, and won or shared 10 of the 13 University Athletic Association league crowns.

"Coach Fahey epitomizes what one seeks in intercollegiate athletics leaders," said Chancellor Mark S. Wrighton. "She is a great asset to the University as a whole and inspirational to all who come to know her. Whether one is a participant or just a spectator, like me, one can't help but be impressed with Coach Fahey's exceptional ability. This honor, which supports the academic mission of the University, is another reminder of Coach Fahey's far-reaching and positive influence."

Nicholson

Internationally known women's studies scholar

— from page 1

Studies Program in years to come, and I look forward to working with her in this important endeavor."

Nicholson earned a bachelor's degree in philosophy in 1968 from the University of Pennsylvania. She earned master's and doctoral degrees from the History of Ideas Department at Brandeis University in 1970 and 1975 respectively. Upon earning her doctorate, she joined the faculty of the University of Albany, New York, as an assistant professor. She was named associate

professor in 1982 and full professor in 1990.

She received a residential fellowship at the Center for the Study of Values in Public Life at Harvard University's Divinity School in 1998. The previous year she received the Bread and Roses Award from the University of Albany for outstanding service on behalf of women. She was National Endowment for the Humanities Visiting Scholar in June 1992 at the State University of New York, Potsdam, and the previous year she received a Rockefeller Foundation Human-



Nicholson: 'Major intellectual force'

ist in Residence Fellowship at the Center for Research on Women at Duke University and the University of North Carolina, Chapel Hill.

In addition to developing and editing the 32-volume series "Thinking Gender," which is credited with shaping the emerging discipline, Nicholson has written two books and more than 70 articles and reviews. She also has edited four other volumes.

"Linda works at the intersection of philosophy, social and cultural theory and feminism," said Helen W. Power, Ph.D., senior lecturer and coordinator of the Women's Studies Program. Power also served as co-chair of the national search committee to fill the professorship. "We are very fortunate to have been able to hire

someone who is both a leader in contemporary scholarship and a gracious and generous colleague. And Linda is fully committed to working for the development of women's studies at Washington University."

The Susan E. and William P. Stiritz Distinguished Professorship was established in 1998 after Susan Stiritz, a Ph.D. candidate in English literature, was inspired by one of Power's women's studies courses. Stiritz said the course convinced her of the value of feminist thought and pedagogy. Her initial gift was followed by a challenge grant from her husband for general support of the program, which offers an undergraduate major and minor and a graduate certificate.

Susan Stiritz, also a candidate for the graduate certificate, earned

get to express ourselves."

Moments earlier, with clarity and confidence, Shantell had read aloud from her journal: "If I could be any animal in the jungle I would be a lion, because he was the king and because I like to be obeyed and honored. The lion's eyes are my favorite body part because they were powerful. When he said a command everyone knew he meant it."

Margie Guthrie, who has taught at Clark for four years, brushes away a joyful tear. "I see a difference," she said. "It's making a difference. The Washington University students are outstanding, amazing. I have never met a group of young people that are so wise, so mature. It's just a blessing. I was happy to come over today, and I'll be happy again next Friday."

How many more Fridays depends on funding, said Hoffman and Goldberg. The program currently is funded fully by St. Louis Hillel and the Simon Foundation. In addition, Hoffman's mother works for Scholastic Books, which furnishes free "for keeps" copies of each book to each child. "I'd love it if the University wanted to take on some kind of ongoing partnership with this program," Hoffman said. "The University's name is sort of floating around — people know we're from Washington U. — but there isn't really an official connection."

Guthrie hopes Out of the Blue will stay in the green. "The Clark students look at the Washington University students as role models. It's crucial that should they have an interest or goal to do well in school, there's someone to demonstrate that it's all right to learn and to become somebody."



MARY BUTTUS

Sophomore Elizabeth Lauren teams up with brothers Stephon Balle, 8, and James Whitfield, 10, to read the African folk tale "Why Mosquitoes Buzz in People's Ears."

Out of the Blue

University students staff literacy program

— from page 1

discussions and solitary journal writing.

Sophomore Risa Hoffman and senior Lauren Rosenthal, both interns at St. Louis Hillel, design and plan the curriculum in partnership with three teachers at Clark. "It's not just about going in and reading a book," said Laurie Goldberg, associate director of the Jewish student organization and an adviser to the program. "That's one component of a much larger program. Everything else is based on the book, but it's reading comprehension, it's using their imaginations to take the story even further. It's learning that once they know how to read, they can take it to so many other levels."

Said Hoffman: "We try to discuss the books in depth and get the kids to think about the issues that are going on — like, 'What does this say about families?' or 'What difficulty is this character going through?' We try to help them relate it to their lives a bit."

That strategy is reflected in the books' subject matter. All the children in the program are black; three recent books had African themes, with positive messages of self-esteem and strong role models.

The ethnic makeup of the college volunteers is, by design, much more varied. All 20 or so participating tutors are from one of two campus dialogue groups, Black Women/Jewish Women and Black Men/White Men. "The mix of men and women, black and white, is very intentional," Hoffman said. "It is important to

break the habit of groups of all-white students volunteering in all-black settings. The Clark students can truly benefit from seeing men and women of different races getting along and uniting to spend time with them.

"Our dialogue group has processed and talked a lot about our Out of the Blue experiences — about why we're doing this," Hoffman continued. "What does it mean for a white student to be volunteering in an all-black neighborhood? Why do we volunteer the places we do?"

"It was a really tough issue in our group," Hoffman said. "I think a lot of the black women thought, 'Well, why are you going into communities that aren't your own when there's so much work that needs to be done in your own?' Which is a really interesting point. Why not go talk to white kids in Ladue who could really be in need of a session discussing racism or trying to work on the root of the problem in our society rather than just another Band-Aid to fix it?"

"But we feel that Out of the Blue is different in the sense that it is these two groups coming together," she said. "Subconsciously or consciously, the kids are getting the message that black and white people are friends. We're uniting and working together. I think that's a very important part of what we do."

Nine-year-old Shantell Jones nods in agreement. "I think all my counselors are great," she said with a grin. "I feel welcomed by all of them, and I feel like I can share my stories. We're like a family!"

Shantell said she "didn't used to read so good. I used to stumble over words. But I think I've made an improvement." She added that "my favorite thing is when we write in our journals, because we

Washington People



Karen O'Malley (left) and fifth-year graduate student Julia Lotharius look at a film showing changes in levels of proteins in an animal model of Parkinson's disease.

Pioneer in progress against Parkinson's

Karen O'Malley, Ph.D., is ferreting out the facts about dopamine in leading-edge research

By LINDA SAGE

Karen O'Malley's Catholic girls' high school gave her a strong foundation in writing and literature but little career counseling or education in science. Her first attempt to get a Ph.D. landed her in the wrong field, and a brief stint in industry proved frustrating. But she eventually found her calling in neuroscience and the battle against Parkinson's disease, and now she is uncovering pathways that slay dopamine-producing cells in the brain.

When these cells die, hands shake, movements slow and other symptoms of the disorder follow. Between 1 million and 1.5 million Americans have Parkinson's, which is becoming more prevalent as the population ages.

"Karen's research is excellent in terms of the basic neuroscience, and it has clearly taken a direction that hopefully will lead to improved animal models for studying Parkinson's disease and eventually to more effective treatment of these important disorders," said David C. Van Essen, Ph.D., the Edison Professor of Neurobiology and head of the Department of Anatomy and Neurobiology.

Karen L. O'Malley, Ph.D., professor of neurobiology at the School of Medicine, became interested in science because her father was a science teacher. But as an undergraduate at California State University of Sonoma, she focused on environmental studies, which led her to Portland State University in Oregon. After a summer at a marine station in Charleston, Ore., however, she abandoned her doctoral studies for a master's degree. "I took a comparative physiology course in Charleston," she recalled, "and knew right away that more biochemically related research was what I really wanted to do."

In 1980, O'Malley obtained a Ph.D. from the University of Texas, Austin, by isolating and characterizing a small peptide from the brain that makes fat cells release some of their baggage. Such a molecule, if it could be turned into a drug, could be useful for treating obesity. "I learned many new techniques, as well as how to do research," she said. "But most importantly, I got very interested in factors that might be unique to

the brain."

Isolating minute amounts of peptides from mountains of pig brains was very laborious, however, so O'Malley was delighted to read a 1979 paper in *Nature* by Stanley N. Cohen, the Stanford University researcher who co-invented DNA cloning in 1973. Cohen's group had cloned the gene for a precursor of several brain peptides. Once a gene is cloned, the corresponding peptide can be synthesized.

"Our hope is that we will be able to identify the cause of cell death and suggest various ways to inhibit it and therefore to slow the progression of the disorder."

KAREN O'MALLEY

O'Malley applied for a fellowship in Cohen's lab, but she first spent six months studying molecular biology in a yeast lab in San Antonio, where her husband-to-be, Richard D. Todd, M.D., Ph.D., was finishing medical school. Todd now is the Blanche F. Ittleson Professor of Psychiatry, director of the Division of Child Psychiatry and professor of genetics here. The two married in 1980.

Cloning genes

When the couple arrived at Stanford, there was not yet space in Cohen's lab for O'Malley, who therefore began to work at Cetus, a biotech company Cohen had founded. Frustrated by publication constraints and bored with contract work, O'Malley quickly moved to Stanford. As a postdoctoral fellow in the lab of Laurence Kedes, O'Malley set out to clone genes for enzymes involved in the synthesis of catecholamines. This family of chemical messengers includes dopamine, the substance that is depleted in Parkinson's disease.

"It was a wonderful experience for me," O'Malley said. "Trying to understand how some of these molecules originated in the brain and how they might function seemed like a golden opportunity to move into an organ that had been inaccessible from a molecular standpoint up to that time."

Looking for a faculty position, O'Malley wasn't anxious to leave California. But a visit to Washington University changed her mind. "I felt that this was the best

growing place for me because of the community of people interested in similar things and the depth of knowledge in neuroscience," she said.

In the ensuing years, she has focused largely on dopamine, uncovering factors that give certain cells in the base of the brain the unique ability to make this neurotransmitter. "Karen has become a recognized leader in the area of studying dopamine," Van Essen said. "Dopamine is

important and has received a great deal of attention because it is implicated in affecting normal behavior and in a variety of clinical disorders. Karen has established a strong track record of studying the basic mechanisms of how

dopamine is synthesized and studying the receptor molecules with which it interacts."

In the course of this work, O'Malley began to determine why dopamine-producing cells die in Parkinson's disease. To study the problem, she dissects out dopamine-making neurons from mouse or rat brains and cultures them in dishes. After exposing them to substances that cause Parkinson-like symptoms in animals, she examines the molecular consequences.

Her group has discovered that the two most commonly used toxins, 6-hydroxydopamine and a heroin metabolite called MPTP, kill these cells in different ways. Whereas 6-hydroxydopamine makes the cultured cells commit suicide, MPTP destroys the cells by a mechanism O'Malley's group is trying to define.

Her group currently is determining how free radical production and alterations in energy metabolism lead to cellular demise. She hopes to use this information to develop a realistic animal model for Parkinson's disease. "Our hope is that we will be able to identify the cause of cell death and suggest various ways to inhibit it and therefore to slow the progression of the disorder," O'Malley said.

When not in the lab, O'Malley is teaching the medical school's neuroscience course or participating in a course on research ethics. "In many cases, there is no consensus about what is right and wrong," she said. "So

students need to think about the shades of gray and decide how they will respond when they face these issues."

She also is involved with the Academic Women's Network (AWN) at the medical school. "Having a critical mass of women is important because a single voice may not be heard as well," she explained.

She is on AWN's mentoring committee, which tries to improve opportunities for female students and researchers. For example, the committee arranges seminars on topics of interest to trainees, such as improving public speaking or grant-writing skills. O'Malley also has been instrumental in arranging for the distinguished women who give the Mildred Trotter lectures to spend time afterwards discussing career issues in science.

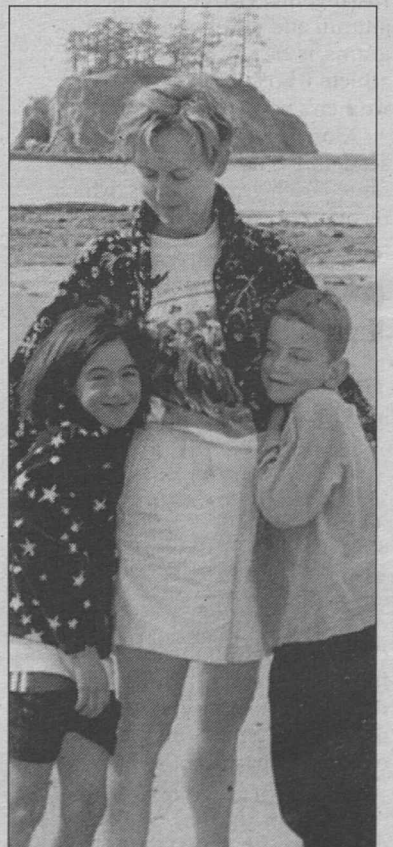
One of O'Malley's two graduate students, Julia Lotharius, also is concerned about mentoring and helped found Women in Neuroscience at the medical school. From a survey she conducted a couple of years ago, she determined that graduate students would like more help, especially if they are women. "We would like to be sent to more meetings and introduced to more experts in our fields," Lotharius said.

Family time

O'Malley spends her spare time with her family. In 1991, she and Todd adopted two Romanian children, Lucas and Anne, who are six months apart in age. The family likes to ride bicycles on the Katy Trail and travel to Central and South America. They are close to a family in Mexico City that hosted O'Malley when she was a high-school exchange student.

"It was a very eye-opening experience to live in another country, struggle with another language and realize that things are not the same as in the United States," she said. "So that has been my long-term interest, and we try to go there at least every two or three years."

Juggling a career and family hasn't been easy, she has found. "You can accomplish a lot in your career, but it is inevitable that you will have less time to be in the lab if you have children," she said. "But having a family is wonderful as well. There's a balance that you wouldn't otherwise get. So for us, it was worth doing."



Karen O'Malley enjoys some beach time with her daughter, Anne, and son, Lucas.

Karen L. O'Malley, Ph.D.

Born in Minneapolis, raised in the Bay area of California

Education: B.A., California State University of Sonoma, 1971; M.S., Portland State University, 1973; Ph.D., University of Texas, Austin, 1980.

University position Professor of neurobiology

Family Husband Richard D. Todd, M.D., Ph.D.; children, Lucas and Anne, both 9.