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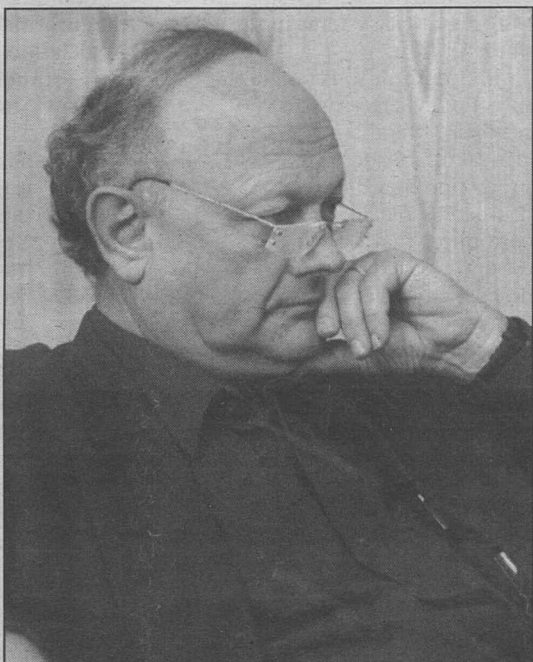
April 19, 2002

Volume 26 No. 29



Washington University in St. Louis

Glenn Murcutt, the Ruth and Norman Moore Visiting Professor in the School of Architecture, concentrates during a critiquing session in Givens Hall April 12. Three days later, Murcutt was named winner of the 2002 Pritzker Architecture Prize, considered the profession's highest honor. He is the third architect associated with the University to win the Pritzker award.



DAVID KILPER

Pritzker Prize

Murcutt wins architecture's top honor

By LIAM OTTEN

Australian Glenn Murcutt, the Ruth and Norman Moore Visiting Professor in the School of Architecture, has won the 2002 Pritzker Architecture Prize.

The annual award is considered the profession's highest honor, often described as architecture's equivalent to the Nobel Prize.

The 66-year-old Murcutt is widely credited with pioneering

an identifiably Australian idiom in domestic architecture, one that mirrors both the delicacy and toughness of that country's natural landscape.

The Pritzker Prize is endowed by Chicago's Pritzker family through its Los Angeles-based Hyatt Foundation and carries a \$100,000 grant.

Hyatt President Thomas J. Pritzker said April 15 in announcing the selection, "Glenn Murcutt is a stark contrast to most of the highly visible architects of the day

— his works are not large-scale; the materials he works with, such as corrugated iron, are quite ordinary, certainly not luxurious; and he works alone. ... Add in the fact that all his designs are tempered by the land and climate of his native Australia, and you have the uniqueness that the jury has chosen to celebrate."

Juror and architecture critic Ada Louise Huxtable said, "Glenn Murcutt has become a living legend, an architect totally focused

See Murcutt, Page 6

'Search' award presented to Nobel laureate North

By BARBARA REA

Douglass C. North, Ph.D., Nobel laureate and the Spencer T. Olin Professor in Arts & Sciences, was awarded the William Greenleaf Eliot Society "Search" Award at the society's annual dinner April 9 at the Ritz-Carlton.

The award is presented each year to an outstanding citizen of the University community. Eliot Society President Mary Ann Van Lokeren presented North with a silver replica of *The Search*, a sculpture designed by Heikki Seppa, professor emeritus in the School of Art, and now part of the University's permanent art collection.

"It is an honor to bestow upon Douglass North this important symbol of being the best that Washington University has to offer," Chancellor Mark S. Wrighton said. "Among distinguished economists, he stands out as a pioneer in shaping modern-day theories that have an empirical impact on society. His extraordinary contributions are enduring and have advanced our understanding of economics and

the development of emerging countries."

The publication of North's books and articles reflect his research emphases, covering property rights, transaction costs, economic organization in history, a theory of the state, the free rider problem, ideology, growth of government, economic and social change, and a theory of institutional change.

His first book was *The Economic Growth of the United States from 1790 to 1860*, followed by *Institutional Change and American Economic Growth* (with Lance Davis); *The Rise of the Western World: A New Economic History* (with Robert Thomas); *Structure and Change in Economic History*; and *Institutions, Institutional Change and Economic Performance*.

After 32 years at the University of Washington, North joined the Washington University faculty in 1983. He was initially appointed the Luce Professor of Law and Liberty and also served as director of the Center in Political Economy for several years.

Together with Robert W. Fogel,



JOE ANGELES

Douglass C. North, Ph.D., receives congratulations from Elizabeth Danforth (center) at the William Greenleaf Eliot Society's annual dinner April 9 at the Ritz-Carlton, during which North was presented with the society's "Search" award. Looking on is North's wife, Elisabeth Case.

North received the Nobel Prize in economics in 1993 for "turning the theoretical and statistical tools of modern economics on the historical past: on subjects ranging from slavery and railroads to ocean shipping and property rights,"

according to David Warsh of *The Boston Globe*.

In addition to the Nobel Prize, North's most distinguished honors include his election to the American Academy of Arts and Sciences in 1987 and his election as a fellow of the British Academy in 1996.

The William Greenleaf Eliot Society, named after the University's co-founder, was founded in 1959. Its 3,800 members are alumni, parents and friends who provide unrestricted support to the University.

Presidential adviser to address 'the war on cyberterrorism'

By BARBARA REA

Presidential adviser Howard Schmidt will be at the University April 23 to discuss "Winning the War on Cyberterrorism."

The event is sponsored by the University's Center for the Application of Information Technology (CAIT) and is the Annual Technology & Trends Briefing that CAIT offers its member organizations.

Schmidt's talk, which is free and open to University faculty, staff and students, will begin at 8:30 a.m. in the Eric P. Newman Education Center on the Medical Campus.

See Schmidt, Page 2



COURTESY PHOTO

Junior Chris Ngo (center), part of the Teaching Teams program, helps Webster Middle School students Azaria Cooper (left) and Kiara Clayborn plant bulbs at the school.

Teaching Teams helps students take first steps toward college

By DANA BENEDICKTUS

In a high-ceilinged 19th-century classroom, sixth- and seventh-graders in jeans and T-shirts peer through microscopes and make realistic drawings of what they see. Outside, a neighborhood of vacant lots is dotted with tall brick townhouses, many of which are nothing more than burnt-out shells.

Five University undergraduates, dressed just like the kids, circulate and talk about microorganisms and assist with drawings.

As members of the Teaching Teams program, the five University students visit elementary classrooms in the St. Louis area to do hands-on enrichment science

activities. This group of students has made an extra commitment to Webster Middle School, on the city's north side, by agreeing to lead activities for an after-school science club.

Junior biology major Michelle Encarnación is the club's organizer. She is planning on medical school after she graduates, but she still remembers how she first got interested in science.

"I had one teacher who was completely into science," Encarnación says. "It just takes one person to show how cool science is and what you can do with it."

The kind of enrichment and personal contact is especially

See Teams, Page 6



Funny farm Members of Sigma Phi Epsilon fraternity and Alpha Phi sorority perform their skit about a retirement mansion for famous farm animals at Thurtene Carnival April 13. The carnival's organizers, the Thurtene Honorary, estimated that nearly 100,000 people came to the Athletic Complex parking lot for the two-day event, which benefited Epworth-St. Louis, an organization that helps children with severe emotional and behavioral challenges.

Preferred Supplier/Supplier Diversity Fair April 24-25

Purchasing Services is hosting the Preferred Supplier/Supplier Diversity Fair 2002, titled "Solutions."

The two-day fair will be held April 24 at the Eric P. Newman Education Center on the Medical Campus and April 25 at the Wohl Student Center on the South 40. The event runs from 10:30 a.m.-2:30 p.m. each day.

The fair represents an opportunity for departmental personnel and others involved in

purchasing decisions to meet and interact with some of the University's preferred contract suppliers, including several minority business enterprises.

The School of Medicine venue will focus on safety- and biotechnology-related products and services.

At the Wohl Student Center, the theme will be related to service, technology and communications product areas.

This year's attendees can

register to participate in one or more of several educational sessions that will be set up at each location relating to the themes of the exhibits that day.

Between 40 and 45 suppliers are scheduled to exhibit at each show.

For more information, call Diane Walker at 935-7689 or Debbie Marks at 935-5016; or go to the purchasing Web site, purchasing.wustl.edu, for a complete rundown of the days' events.

Women's Society presents Danforth scholarship, Leadership Award

By ANDY CLENDENNEN

The Women's Society of Washington University has awarded the Elizabeth Gray Danforth Scholarship for the 2002-03 academic year to Georgina Montero. The society also has presented its 2002 Leadership Award to Jessica Bernard.

Both presentations were made at the Women's Society's annual membership meeting April 10.

The Danforth scholarship is a two-year, full-tuition scholarship awarded annually to a student from the St. Louis Community College District transferring to the University.

Montero, from the Dominican Republic, is studying at the St. Louis Community College at Forest Park. She was awarded an International Scholarship to study quality control technology at Forest Park and also participated in the Global Student Leadership Program at Manhattanville College in 2000. She also participated in a workshop with the Environmental School of Yale University in the summer of 2001.

Montero carries a 3.6 grade-point average, is a member of Phi Theta Kappa honor society and has been on both the President's List and the National Dean's List.

"The most important impact of this scholarship is the great opportunity it gives me to pursue extracurricular activities and projects that will greatly enhance my University experience," Montero said. "The financial support I'm receiving will allow me to spend time volunteering in St. Louis' diverse community and promote women's leadership through the Global Student Leadership Program, which is my passion and project at this moment."

In presenting the Leadership Award, this marks the fifth year the Women's Society has recognized one or more graduating senior women who have contributed significantly to the University community during their undergraduate years.



At its annual meeting April 10, the Women's Society of Washington University presented its 2002 Leadership Award to Jessica Bernard (left), who will graduate in May with a double major. The society also awarded the Elizabeth Gray Danforth Scholarship to Georgina Montero, who is studying at St. Louis Community College at Forest Park.

"The most important impact of this scholarship is the great opportunity it gives me to pursue extracurricular activities and projects that will greatly enhance my University experience."

GEORGINA MONTERO

Bernard is scheduled to graduate in May with a double major — psychology in Arts & Sciences (with a legal studies minor) and economics with a law concentration in the Olin School of Business. With her 3.9 grade-point average, she plans to attend law school.

Bernard has been the captain of the University Mock Trial team since 1999 and was awarded the

best attorney award at regional Mock Trial competitions in both 2000 and 2001. For the past three years, Bernard has been president of Phi Alpha Delta, the pre-law fraternity.

The Women's Society underwrites a number of events each year. Some sponsored events are annual traditions, such as the annual Adele Starbird Lecture in the Assembly Series (co-sponsored by the Congress of the South 40), which this year featured Sylvia Nasar, author of *A Beautiful Mind*.

Other programs are funded on a one-time basis. Women's Society-sponsored programs this year include events for the Stix International House; Service First, a large-scale community service project for freshmen; the Summer Leaders Program for students; the Women and Citizenship Conference; programs for the Social Justice Center; and musicians for the recent Washington University Opera presentation of *The Dialogues of the Carmelites*.

Schmidt

— from Page 1

Schmidt was recently appointed vice chair of the President's Critical Infrastructure Protection Board, a group of high-level public and private leaders in the cybersecurity field that reports directly to national security adviser Condoleezza Rice and Director of Homeland Security Tom Ridge.

Its mission is to advise U.S. officials on cybersecurity issues and coordination of security-related incidents. More specifically, the team has been directed to secure information systems and restore critical systems in the event of disruption.

President Bush is taking the threat of cyberterrorism very seriously. Members of his critical infrastructure protection board have testified to a U.S. Senate committee that cyberattacks could shut down a city's electricity, 911 systems, telephone and communications networks and transportation systems, leading to loss of life and damage to the economy.

Schmidt has announced that this summer the government will release a strategy for protecting the nation's network infrastructure. The strategy will address what role the U.S. government should play in improving the security of our nation's public and private networks, what legislative changes are on the horizon and how the private sector and academia can contribute.

In his career spanning more than three decades, Schmidt has held a number of high-level positions in the field of information and data security, most recently as chief security officer for Microsoft Corp. He has served as a

supervisory special agent, director of the Air Force Office of Special Investigations in the Air Force's Computer Forensic Lab and Computer Crime and Information Warfare Division, where, under his direction, the first dedicated computer forensic lab in the government was created.

Before that position, he was with the FBI's National Drug Intelligence Center, where he headed the Computer Exploitation Team as a computer forensic specialist. Throughout his career, he has served as an expert witness in federal and military courts in the areas of computer crime, computer forensics and Internet activities.

Schmidt serves as president of the Information Systems Security Association as well as the Information Technology-Information Security Analysis Center.

Throughout his career, he has served in a number of leadership positions with the International Organization of Computer Evidence, the Federal Computer Investigations Committee, the American Academy of Forensic Scientists and the National Security Telecommunications Committee. In addition,

he helped form the Institute for Information Infrastructure Protection.

CAIT is a not-for-profit organization within the School of Engineering and Applied Science, serving as the center for information technology (IT) leaders in the St. Louis region. The purpose of CAIT is to help organizations make continuous advancements in productivity and enhance the region's competitiveness as a thriving, world-class IT community.

For more information about Schmidt's talk, e-mail Steve Boris at steveb@cait.wustl.edu or call 935-4850.



Schmidt

Campus Watch

The following incidents were reported to University Police April 10-16. 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 10

6:26 p.m. — A student reported that he parked and locked his bike near Beaumont Residence Hall around spring break. When he returned, an unknown person had stolen his bike. Total loss is estimated at \$90.

April 12

10:22 a.m. — The reporting party stated that an unknown person entered the Gallery of Art in Steinberg Hall and stole a Panasonic DVD/compact disc player and a wireless remote speaker system. Total loss is estimated at \$391.

12:09 p.m. — The reporting party stated that an unknown person forced entry into the victim's vehicle, which was parked in Parking Lot No. 4, on

the north side of Brookings Drive. The passenger-side door lock was damaged, and the suspect stole a compact disc player/stereo and a wallet. Total loss is estimated at \$575.

12:25 p.m. — The reporting party stated that an unknown person forced entry into the victim's vehicle, which was parked in Parking Lot No. 4, on the north side of Brookings Drive. The suspect entered the vehicle by unzipping the plastic covered window of the Jeep. The suspect stole several checks and \$500 in cash. The victim's dashboard also was damaged.

Additionally, University Police responded to eight reports of larceny, four reports of property damage, three auto accidents and one report each of disturbance and judicial violation.

Record

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 Washington University in St. Louis

School of Medicine Update

Helium imaging detects emphysema changes

By Darrell E. Ward

School of Medicine researchers have shown for the first time that an experimental imaging technique can show changes caused by emphysema even in the smallest airways of the lung.

The technique, known as helium-3 diffusion magnetic resonance imaging (³He diffusion MRI), is more sensitive than computed tomography or any other imaging method currently available for examining the lung.

The findings recently were published in the *Proceedings of the National Academy of Sciences*. The lead author is Dmitriy A. Yablonskiy, Ph.D., assistant professor of radiology in the School of Medicine's

Mallinckrodt Institute of Radiology and a professor of physics in Arts & Sciences.

"Our findings suggest this may be a new means for the early

detection of emphysema by demonstrating the enlargement of the air spaces in the lung," said Stephen S. Lefrak, M.D., professor of medicine and a co-author of the paper. "I suspect it also will help in understanding the development, evolution, progression and physiological effects of many lung diseases including emphysema, asthma and perhaps pulmonary fibrosis."



Yablonskiy: Assistant professor of radiology

"Our findings suggest this may be a new means for the early detection of emphysema by demonstrating the enlargement of the air spaces in the lung."

STEPHEN LEFRAK

Joel D. Cooper, M.D., the Evarts A. Graham Professor of Surgery and head of the Division of Cardiothoracic Surgery, added: "This technique may well help us refine our selection criteria and better predict the outcome of emphysema patients undergoing lung-volume reduction surgery." Lung reduction surgery involves the removal of the most diseased areas of the lung in select patients.

³He diffusion MRI uses a nonradioactive and highly polarized — hyperpolarized — form of helium gas. Hyperpolarizing the gas with lasers makes the helium detectable by MRI.

To perform the technique, a patient in an MRI machine inhales the gas and holds his or her breath for 10 seconds. The resulting image shows how far the atoms of helium travel, or diffuse, within the lungs during a period of two thousandths of a second. The method reveals the distance traveled both along and across the airways.

These distances are recorded as colors ranging from red (the smallest distances) to violet (the largest distances). This information also indicates the physical diameter of the airways and of the alveoli, the smallest spaces in the lung.

If a large space is available, the

helium molecules can move freely and travel relatively far. This is the case in the trachea, the relatively large tube that carries air from the mouth and nose into the chest and shows up as violet when imaged. In small airways within healthy lungs, the helium atoms have little room to move. These areas show up in the image as red or deep orange.

Emphysema progressively destroys the walls of the alveoli, where the blood releases its load of carbon dioxide and takes up a fresh supply of oxygen. The disease results in a loss of lung elasticity and an enlargement of alveolar spaces. The larger space gives the helium atoms more room for movement.

"Diffusion in emphysemic lungs can be five to six times greater than in normal lungs because of the enlargement of the airways," Yablonskiy said. "That's why this technique is sensitive; it tells us the radius of the airways."

Mark S. Conradi, Ph.D., professor of physics and another co-author of the paper, added, "It is a powerful method, telling us about lung structure on the 0.1 to 0.5-millimeter scale, too small for us just to take a picture of them."

The study reported the use of the technique in two healthy patients and four with severe emphysema.



Dedicating a haven of learning I. Jerome Flance, M.D., special associate for community redevelopment in the School of Medicine, cuts the cake with Sharonica Hardin, principal of Adams Elementary School, at the April 9 dedication of the school's library as the Dr. I. Jerome Flance Media Center. Flance was instrumental in the reopening last year of Adams Elementary in the Forest Park Southeast (FPSE) neighborhood. The school's reopening was part of a neighborhood-redevelopment plan developed by the Washington University Medical Center, McCormack-Baron and Associates, the FPSE community and Firstar Bank (now U.S. Bank).

Four faculty get awards from orthopaedic foundation

By Jim Dryden

Four faculty members from the School of Medicine's Department of Orthopaedic Surgery have received awards that will help fund new research in orthopaedic surgery.

The four received Orthopaedic Research and Education Foundation (OREF) awards at the annual meeting of the American Academy of Orthopaedic Surgeons, held recently in Dallas.

Leesa Galatz, M.D., instructor of orthopaedic surgery, is a specialist in shoulder and elbow surgery. She received a pair of awards, including a two-year, \$100,000 Basic Science Research

Award that will help fund a study of bone tendon healing in a rat model of rotator cuff injury.

The other, a Zimmer Orthopaedic Surgery Career Development Award, is a one-year, \$50,000 award to fund a study, again employing the rat model of rotator cuff injury and repair, to investigate the effects of nicotine on tendon-to-bone healing.

Ken Yamaguchi, M.D., associate professor of orthopaedic surgery and a specialist in shoulder and elbow surgery, received a three-year, \$225,000 Thomas H. Coffman OREF Career Development Award. It will fund a prospective clinical study on the natural history of asymptomatic

rotator cuff tears. The study will use an extensive database of patients with asymptomatic rotator cuff tears that were detected by ultrasound.

Cervical spine surgeon **K. Daniel Riew, M.D.**, associate professor of orthopaedic surgery, received a three-year, \$81,000 OREF Clinical Research Award that will help fund a prospective, randomized study of whether cervical nerve root injections can prevent the need for surgery in patients with radiculopathy, a pinched nerve that can cause arm numbness, weakness or pain.

Yousef Abu-Amer, Ph.D., assistant professor of orthopaedic surgery, studies the role of tumor necrosis factor and molecular mechanisms of that protein in inflammation, inflammatory bone loss and rheumatoid arthritis. He hopes to identify molecular steps in cytokine-induced inflammatory bone loss and to block such responses, and he has received a \$20,000 Young Investigator Award from OREF's Kappa Delta Sorority in recognition of his work.



Kudos for outstanding leadership Abby Hollander, M.D. (left), assistant professor of pediatrics, congratulates Indira Myorekar before giving her the Academic Women's Network (AWN) doctoral student award. The AWN annually recognizes graduating students in the M.D. and Ph.D. programs for their outstanding leadership in service to or advancement of women. Rosanna Gray-Swain received this year's medical student award. The AWN also recognizes an outstanding mentor to female University faculty members and trainees. Penelope G. Shackelford, M.D., professor of pediatrics and associate professor of molecular microbiology, received the mentor award. The event was held April 11 at Whittemore House.

Rummerfield spotlighted in museum

By Gila Z. Reckess

Patrick Rummerfield's story has motivated and inspired individuals with paraplegia and tetraplegia for decades. Now, his metamorphic recovery from complete paralysis to competitive athlete will be showcased at the Pathological Museum of the Royal College of Surgeons of Edinburgh, Scotland.

In 1974, Rummerfield, now the director of performance assessment in the Spinal Cord Injury Program of the rehabilitation division in the School of Medicine, was paralyzed from the neck down after a motor vehicle collision. His magnetic resonance imaging scans, which will be part of the museum's medical display, reveal damage to more than 80 percent of his spinal cord at C3-4, a point near the top of the cervical spinal cord in the neck.

Despite permanent nervous system damage and an extremely bleak prognosis, Rummerfield has slowly rehabilitated himself. Not only can he walk and strength-train both his upper and lower body, he also competes in marathons and triathlons and

broke the world land-speed record for an electric car by reaching more than 245 mph.

Rummerfield now works with John W. McDonald III, M.D., Ph.D., assistant professor of neurology and of neurological surgery and director of the Spinal Cord Injury Neurorehabilitation Program in the School of Medicine, Barnes-Jewish Hospital and the Rehabilitation Institute of St. Louis, to help other patients undergoing rehabilitation.

"Pat is an amazing individual and represents a tremendous amount of hope each time he walks into a patient's room," McDonald said.

Rummerfield also works closely with University physicians to promote seat-belt safety, helmet protection and safety in youth sports. In addition, he has helped develop the NextSteps Foundation (www.nextstepsracing.org), the Sam Schmidt Paralysis Foundation (www.samschmidt.org) and Gateway to a Cure (www.gatewaytoacure.org), which raise public awareness and funds for spinal cord injury research.

Healing of intestinal lining focus of study

By Jim Dryden

Gastroenterology investigators in the School of Medicine have received two grants from the National Institute of Diabetes and Digestive and Kidney Diseases to study the mechanisms underlying the formation and healing of the lining, or mucosa, of the gut.

The mucosa is important for the digestion and absorption of dietary nutrients.

Deborah C. Rubin, M.D., associate professor of medicine in the Division of Gastroenterology, is principal investigator on both grants, which will provide \$2.6 million for the next five years.

One of the grants will support a study of the formation of a part of the small intestine called the crypt-villus axis.

Rubin will study a protein called epimorphin that promotes growth of the lining of the small intestine. She will work with Marc S. Levin, M.D., associate professor of medicine, and Nicholas O. Davidson, M.D., professor of medicine and head of the Division of Gastroenterology, to study the role of this protein in cell culture and to create a genetic knock-out mouse that does not make epimorphin.

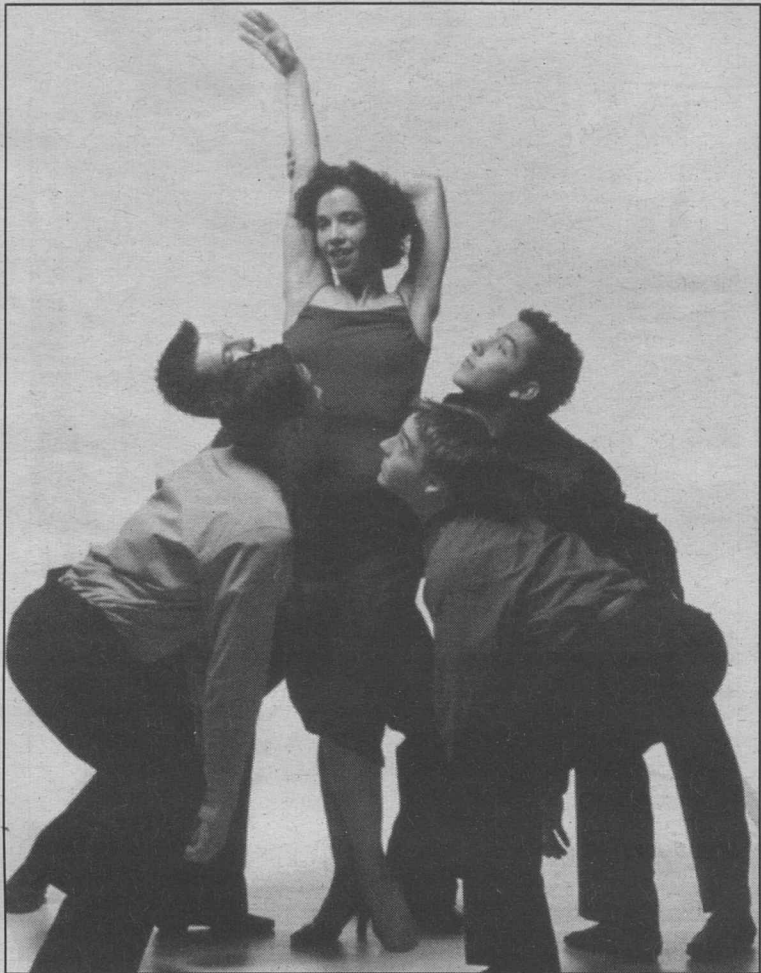
Their goal is to learn more about the protein's role in the gut.

Epimorphin is made in the supporting cells of the developing small intestine. It is believed to be important in the formation and function of the crypt-villus axis, where absorption takes place. Repair and regeneration of the crypt-villus axis also is thought to be key in promoting healing from intestinal trauma and from disorders such as Crohn's disease.

Rubin's second grant will help fund continuing studies of the molecular mechanisms that regulate the gut's ability to enhance its function after the loss of normal intestine from disease or injury. Levin also will collaborate with her on those studies.

University Events

River North Chicago Dance Company April 19-21 at Edison



COURTESY PHOTO

The River North Chicago Dance Company will conclude the 2001-02 Edison Theatre OVATIONS! Series. The company's dancers have been described as "wild and smooth as aged whiskey."

BY LIAM OTTEN

The hard-charging, show-stopping, theatrically expressive and ever-engaging River North Chicago Dance Company will conclude the 2001-02 Edison Theatre OVATIONS! Series with a trio of performances April 19-21.

The shows are sponsored by Dance St. Louis and by the Edison Theatre OVATIONS! Series and begin at 8 p.m. April 19-20 and at 2 p.m. April 21.

Founded in 1989, River North Chicago began as a homespun, no-budget grass-roots dance troupe whose repertoire consisted mainly of works contributed by local choreographers. Pieces tended to be short because the dancers could only practice for a few hours each week, yet a style born of necessity would eventually become a company trademark. River North audiences grew accustomed to seeing as many as eight or 10 sharply timed works in a single concert (as opposed to the more traditional three or four).

Today, River North's eclectic, contemporary repertoire ranges from jazz dance to modern, with works by such emerging talents as Daniel Ezralow, Randy Duncan, Ashley Roland, Sam Watson and Harrison McDowd. And, as

Who: River North Chicago Dance Company

Where: Edison Theatre

When: 8 p.m. April 19-20; 2 p.m. April 21

Tickets: \$25; available at Edison Theatre Box Office, 935-6543, or through MetroTix

Sponsors: Dance St. Louis and the Edison Theatre OVATIONS! Series

For more information, call 935-6543.

critic Laura Molzahn noted in *Dance Magazine*, "with ... dancers as wild and smooth as aged whiskey, River North is well on its way to being Chicago's next big export."

Under choreographers Frank Chaves and Sherry Zunker — artistic director and artistic director emeritus, respectively — River North Chicago has become one of the Midwest's finest professional touring companies.

The 1995 season was a particular turning point: Bookings almost tripled over the year before, and the troupe was the subject of a half-hour performance documentary *Reality of a Dreamer*, which garnered two local Emmy Awards for Chicago's WTTW/Channel 11 before national broadcast on PBS. A second, hour-long documentary,

River North Rising, premiered in 1999.

Zunker joined River North in 1990 and served as artistic director until 2001. In addition to her work with River North, she has set works for The Joffrey Ballet of Chicago, Gus Giordano Jazz Dance Chicago and the Aspen Ballet, among others. She previously danced with the Chicago Repertory Dance Ensemble; was a principal dancer with Gus Giordano Jazz Dance; and performed as a soloist in Bob Fosse's *Dancin'* and under Tony Award-winning choreographer Ann Reinking in the Goodman Theater's production of *Pal Joey*.

Chavez joined the company as a choreographer in 1992 and became co-artistic director, with Zunker, in 1994. He has created numerous works for River North and other troupes, including Spectrum Dance Theatre, Gus Giordano Jazz Dance, Barat Repertory Dance Company, Kaleidoscope Dancers and Liisa Nojonen Dance Company.

He has staged ballets for the Atlanta Ballet, Ballet Florida, the American Repertory Ballet and Ballet Lirico di Verona.

Tickets are \$25 and are available at the Edison Theatre Box Office and through all MetroTix outlets. For further information, call 935-6543.

Special Resemblance • Tales of a Gene Hunter • Spouse Congruence

"University Events" lists a portion of the activities taking place at Washington University April 19-May 1. 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.

Friday, April 19

4 p.m. "Take Four" art exhibition. "Dreamy." Works of Mary Gonzalez, Grant Miller, and Jesse Thomas. Jessica Bronson, Henry L. and Natalie E. Freund Fellow, curator. Fort Gondo Compound for the Arts, 3151 Cherokee St. 772-3628.

4 p.m. Washington U. Libraries Open House. Kranzberg Studio for the Illustrated Book. West Campus Lower Lvl. 935-5495.

Thursday, April 25

5 p.m. "Take Four" art exhibition. "Special Resemblance." Works of Brandon Anschultz, Nektaria Asmargianaki, Andrea Green, and Patrick Marcoux. Jessica Bronson, Henry L. and Natalie E. Freund Fellow, curator. Fort Gondo Compound for the Arts, 3151 Cherokee St. 772-3628.

Lectures

Friday, April 19

9:15 a.m. Pediatric Grand Rounds. "Continuing Challenges in Neonatology." Amit Mathur, asst. prof. of pediatrics. Clifton Aud., 4950 Children's Place. 454-6006.

Noon. Cell Biology and Physiology seminar. "Signal Transduction Mechanisms Underlying Cell Migration in the Nervous System." Yi Rao, assoc. prof. of anatomy and neurobiology. McDonnell Medical Sciences Bldg., Rm. 426. 747-1808.

Monday, April 22

Noon. Lung Biology Conference. Daniel P. Schuster, prof. of medicine and radiology. Eric P. Newman Education Center. 362-8983.

Noon-1 p.m. Work, Families, and Public Policy Seminar Series. "Marriage and Assortative Mating." Elaina Rose, asst.

prof. of economics, U. of Wash. Sponsored by the John M. Olin School of Business, George Warren Brown School of Social Work, Center for Social Development, and the Business Law, and Economics Center. Eliot Hall, Rm. 300. 935-4918.

Noon. Neurology seminar. "Mechanisms of CNS Inflammatory Demyelination." Anne Cross, assoc. prof. of neurology. Schwarz Aud., Maternity Bldg., 1st floor. 362-7316.

2:30 p.m. Chemical Engineering Seminar Series. "The St. Louis-Midwest Supersite: A Characterization of Ambient Fine Particulate Matter." Jay Turner, assoc. prof. of chemical engineering (Refreshments, 2 p.m.). Urbauer Hall Rm. 208. Cupples II Hall, Rm. 100. 935-4988.

4 p.m. Biochemistry and Molecular Physics lecture. Carl and Gerty Cori Lecture. "How the Ear's Works Work: Mechano-electrical Transduction and Amplification by Hair Cells." A. James Hudspeth, F.M. Kirby Professor and Head, Lab. of Sensory Neuroscience, the Rockefeller Inst., N.Y. Moore Aud. 660 S. Euclid Ave. 362-0261.

4 p.m. Biology seminar. "Connecting Developmental and Evolutionary Mechanisms: Hox Genes, Digits and Limbs." Günter P. Wagner, chair and prof. of ecology and evolutionary biology, Yale U. Rebstock Hall, Rm. 322. 362-4188.

4 p.m. Physics seminar. "Protein Flexibility and Folding." Michael F. Thorpe, University Distinguished Professor of physics & astronomy, Mich. State U., East Lansing (Coffee, 3:45). Compton Hall, Rm. 241. 935-6276

Tuesday, April 23

8:30 a.m. CAIT Member Presentation. "Winning the War on Cyberterrorism." Howard Schmidt, president's adviser on cybersecurity. Sponsored by the Center for the Application of Information Technology. Eric P. Newman Education Center. 935-4792.

Noon. Tuesday Conference Seminar. "Comparative Studies of Brain Structure in CDR 0 and CDR 0.5 Subjects." Michael Miller, dir., Center for Imaging Science and prof. of biomedical engineering, Johns Hopkins U. Sponsored by the Alzheimer's Disease Research Center. East Pavilion Aud., Barnes-Jewish Hosp. Bldg. 286-2881.

Wednesday, April 24

8 a.m. Obstetrics and Gynecology Grand Rounds. "Genital Atrophy in Sexuality." Murray Friedman, assoc. clinical prof. of obstetrics and gynecology and physiology and endocrinology, Medical College of Ga. Clifton Aud., 4950 Children's Place. 362-1016.

Thursday, April 25

8 a.m. Infectious Diseases symposium. "EPI 2002: Updates for Admitting

Physicians." (Registration 7:15 a.m.) Sponsored by the div. of infectious diseases, dept. of internal medicine, and continuing medical education, Washington U. School of Medicine. Cost: \$125 for physicians, \$95 for allied health professionals. Eric P. Newman Education Center. 362-2418.

Noon. Genetics Seminar Series. Shreffler Memorial Lecture. "Tales of a Gene Hunter: Regulation of Neuroendocrine Development." Sally Camper, prof. of human genetics, U. of Michigan. Cori Aud., 4565 McKinley Ave. 362-2139.

4 p.m. Chemistry Seminar Series. Jeffrey S. Moore, William H. and Janet Lycan Professor of Chemistry and Materials Science and Engineering, U. of Ill., Urbana-Champaign. McMillen Lab., Rm. 311. 935-6530.

4 p.m. Ophthalmology & Visual Sciences seminar. Williams Foster, Tony Pira, Marc Leibole, ophthalmology residents. Barnes-Jewish Hosp. Bldg., East Pavilion Aud. 362-1006.

Friday, April 26

9:15 a.m. Pediatric Grand Rounds. "Orbital Complications of Sinusitis." James Forsen, asst. prof. of otolaryngology. Clifton 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.

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.

Music

Saturday, April 20

8 p.m. Faculty recital. Mahler's *Kindertotenlieder*. Deborah Stinson, mezzo soprano, and Scott Schoonover, piano. Graham Chapel. 935-4841.

Monday, April 22

8 p.m. Concert. More Fools than Wise, a madrigal ensemble. Karl Umrath Hall Lounge. 935-4841.

8 p.m. Concert. Washington U. Flute Choir, Jan Smith, dir. Graham Chapel. 935-4841.

10 p.m. A Capella Concert. "Chicken of the Sea." Washington U. Stereotypes. Urso's Café. 933-2529.

Tuesday, April 23

8 p.m. Concert. Music of Purcell and Rutter. University Chorus, Eric Anthony, dir. Graham Chapel. 935-4841.

Wednesday, April 24

7 p.m. Concert. Washington U. Jazz Singers, Ross Bell, dir. Wohl Center, Friedman Lounge. 935-4841.

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.

On Stage

Friday, April 19

8 p.m. OVATIONS! Series. A.E. Hotchner Award Winning Play. *Killing Women*. Written by Marisa Wegrzyn. William Whitaker, dir. (Also April 20, 5 and 9 p.m., April 21, 2 p.m.). Cost: \$12, \$8 for WU faculty, staff, and students. Edison Theatre. 935-6543.

Friday, April 19

8 p.m. OVATIONS! Series. River North Chicago Dance Company. Co-presented by Dance St. Louis (Also April 20, 8 p.m.; and April 21, 2 p.m.). Cost: \$25, \$20 for WU faculty, staff, and students. Edison Theatre. 935-6543.

Sports

Sunday, April 20

Noon. Softball vs. Greenville College. WU softball field. 935-4705.

Saturday, April 27

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

Noon. Softball vs. Maryville U. WU 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.

Worship

Friday, April 19

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

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

Sunday, April 21

11 a.m. Catholic Mass. Rev. Gary Braun 25th anniversary Mass (Barbecue picnic follows at the Catholic Student Center, 6352 Forsyth Blvd.). Graham Chapel. 935-9191.



COURTESY PHOTO

Exploring identity *Image and the Projected Self*, by Liz Giardina, a senior in the School of Art, is one of seven works included in the 17th Annual University City Sculpture Series. Situated in the window display at Blueberry Hill, 6504 Delmar Blvd., the piece is an installation/performance examining the concept of identity as illustrated through a series of garments Giardina designed for a group of female drama students. Here the model/clients prepare for one of three live Saturday-evening performances.

Summer School offers array of new courses

By ANDY CLENDENNEN

Summer is right around the corner, and the University's summer school registration is now open. More than 200 classes offer students everything from American culture studies to yoga.

Summer courses are offered during three-, five- and eight-week sessions with both day and evening hours:

- Session 1: May 13-May 31;
- Session 2: June 10-July 12;
- Session 3: June 10-Aug. 2;
- Session 4: July 15-Aug. 16.

The Summer School has awarded faculty grants to develop creative new additions to the curriculum.

"It's been continually important for us at Washington University to encourage our faculty to develop courses that reflect their research interests, especially during the summer," said Paul Winner, interim director of the Summer School.

New courses created from the grant are:

• **Cultural and Media Representation in the Social Sciences**, taught by Garrett A. Duncan, Ph.D., assistant professor of education in Arts & Sciences. The course examines theoretical and methodical issues connected to our advancing technologies, especially as they inform new social theories and ways of knowing. The course will provide students with the opportunity to incorporate ideas into computer-based audiovisual projects.

• **Tragedy, Rhetoric, and Democracy: Public Discourse in Classical Athens**, taught by Ryan K. Balot, Ph.D., assistant professor of classics in Arts & Sciences. The course takes a look at democracy: free speech, interrogation of authority, individual reflection

and political virtue all through the vibrant democratic culture of Athens' ancient democratic institutions.

• Lee Benham, Ph.D., professor of economics in Arts & Sciences, will teach **New Institutional Social Sciences I: Economics**, which surveys the methodology, theory and empirical work in new institutional economics, with an added analysis of the strengths and weaknesses of neoclassical economics as well as the role of institutions.

• Sunita A. Parikh, Ph.D., associate professor of political science in Arts & Sciences, will teach **Southwest Asian Societies: Politics and Culture in India, Pakistan, Afghanistan**, focusing on the relationships between ethnic, cultural and political issues in the South Asian subcontinent.

• Itai Sened, Ph.D., associate professor of political science, will teach the political companion class to the economics department's New Institutional Social Sciences course during a special-dates session of the Summer School. **New Institutional Social Sciences II: Politics**, an in-depth study of the theory of institutions, will explore those theories and suggest them as a starting point for institutional changes.

Once again, the summer campus will include members of the University's High School Summer Scholars Program. During two five-week sessions, high school seniors from across the country and around the globe will take courses for credit and will live together in the campus residence halls.

"We have more and more summer scholars each year, and a healthy percentage of them, incidentally, wind up attending Washington University," Winner

said. "They're all bright and vital seniors, and we're proud to have them."

In addition to a wide range of courses, the Summer School and Arts & Sciences are committed to finding new ways to enrich summer social and cultural life on campus. The popular Holmes Jazz series will continue; the Mostly Harmless Theatre Company is slated to stage productions throughout the summer; and the various festivals in Clayton, Forest Park and the Central West End will all be included in the Summer Social Calendar, to be published in May.

To register for a class or for more information about Summer School, call 935-6720 or visit the Summer School Web site, artsci.wustl.edu/summer.

'Father Gary' to celebrate 25 years of priesthood

By NEIL SCHOENHERR

As director of the Catholic Student Center at the University, the Rev. Gary Braun works to meet the spiritual needs of the student community on their level and at their time, whether that takes him to the dining halls on the South 40 or to Olin Library at midnight.

"Father Gary is a wonderfully accepting and open-minded person who is willing to listen to anybody, whether or not he agrees with their views," senior Bryan Huot said. "This makes him very easy to talk to and tends to lead to wonderful conversations."

On April 21, Braun will celebrate the 25th anniversary of his ordination with an 11 a.m.

Mass in Graham Chapel followed by a barbecue at the Catholic Student Center, 6352 Forsyth Blvd.

Braun was ordained for service to the Church of St. Louis in 1977. After serving in four parishes throughout the St. Louis Archdiocese, Braun was invited by then Archbishop John L. May to be director of the Catholic Student Center — also known as the Newman Center — in May 1991.

In 1994, Archbishop Justin Rigali appointed Braun with the additional duties of director of Catholic campus ministries for the Archdiocese of St. Louis. Braun also has served as a spiritual director of the archdiocesan seminary for 19 years.

The Catholic Student Center offers retreats, leadership

training, social justice programs, international service trips and spiritual programs for the entire University community.

Braun was recognized by the Aquinas Institute in St. Louis as its 2000 Preacher of the Year. He has appeared frequently on St. Louis radio station KMOX and has received national exposure through interviews with NBC, MSNBC, *The Washington Post*, *The Wall Street Journal* and National Public Radio's *Morning Edition*.

Braun said he truly enjoys working with students.

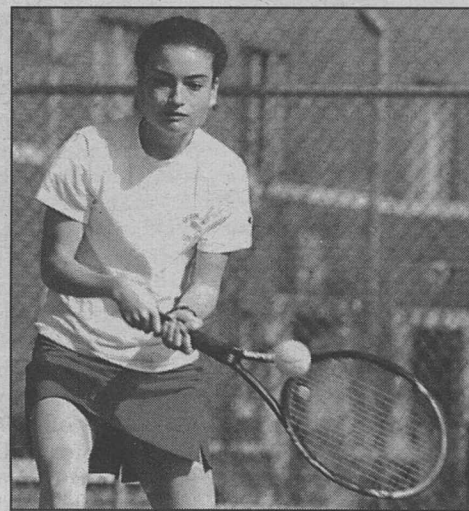
"For me, the most beautiful and the most difficult day of the year is Commencement," Braun said. "What does it mean to spend my life for these students only to say 'goodbye'? And yet it is for this day that the Catholic Student Center exists: to say 'goodbye' and send them all over the world after they have been trained and educated in faith and are ready to serve.

"That's our dream. It is for that reason alone that the Catholic Student Center exists."

Senior Kevin McCarthy said Braun is a true gift to the community.

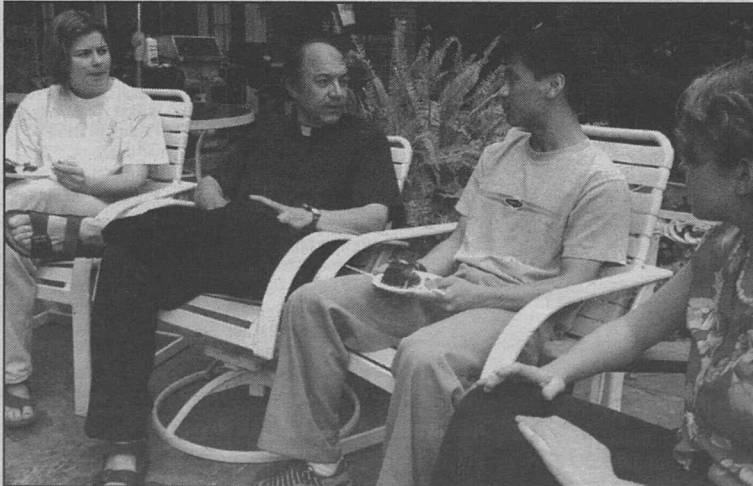
"For me, Father Gary offers an open ear and heart, personal and spiritual challenges and advice, and above all, unconditional love," McCarthy said. "He amazes me with how much he gives to this community: faith, leadership, laughter, honesty, humility, hugs, challenges, trust, genuineness and love."

For more information about the Mass or barbecue, call 935-9191, ex. 258.



MARY BURRIS

Sophomore Laura Greenberg is 24-1 in singles play and has teamed with junior Jenny Stein to go 18-3 in doubles action.



DANIEL HOUSE

The Rev. Gary Braun, director of the Catholic Student Center (CSC), enjoys a relaxing lunch April 12 with students (from left) Melissa Calcaterra, Stef Saño and Laurel Griggs. Braun will be celebrating the 25th anniversary of his ordination April 21 with a special Mass at Graham Chapel followed by a barbecue at the CSC.

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...

Friday, April 19

1 p.m. **American Chemical Society Award Symposium.** Honoring Scott Gilbertson, prof. of chemistry. Louderman Hall, Rm. 458 (Reception follows in Millstone Lounge). 935-6530.

Tuesday, April 23

4 p.m. **Modern Literature Reading Series.** "...Beckett." Readings from texts by Samuel Beckett. Special Collections, Olin Library, Lvl. 5. 935-5495.

Thursday, April 25

8 a.m. **Distance learning course.** STD Clinician Course. Presented by St. Louis STD/HIV Prevention Training Ctr. Cost: \$90. U. of Mo., St. Louis, Lucas Hall, Rm. 117. To register, call 747-0294.

Wednesday, April 24

10:30 a.m.-2:30 p.m. **Preferred Supplier/Supplier Diversity Fair.** "Solutions." Sponsored by Purchasing Services (Also April 25, 10:30 a.m.-2:30 p.m., Wohl Student Center). Eric P. Newman Education Center. 935-7689.



Tribal dance (From left) Kwaku Tawie, a Ghanaian dancer from the St. Louis community, joins master of social work students Rose Korang Okrah, from Ghana, and Njeri Kagotho, from Kenya, as they perform Adowa, one of many dances of Akan, the largest tribe in Ghana. Their performance was part of the George Warren Brown School of Social Work's International Festival April 12 in Brown Hall. This year's theme was "It's a Small World After All."

Murcutt

Wins 2002 Pritzker Architecture Prize

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on shelter and the environment, with skills drawn from nature and the most sophisticated design traditions of the modern movement."

Murcutt is the third architect associated with Washington University to win the Pritzker, which was inaugurated in 1979. Japanese architect Fumihiko Maki, who received the honor in 1993, taught at the School of Architecture from 1956-1963 and currently is designing the University's new Visual Arts and Design Center. Hans Hollein of Vienna, who won in 1985, taught at the University in 1963-64.

"Glenn is a person of great integrity, and we feel very fortunate and honored to have had him with us at the time he learned of his selection," said architecture Dean Cynthia Weese. "More importantly, the students were able to benefit from his intense and insightful critiquing — he pushed them just as, it's quite clear, he pushes himself."

Despite his international stature, Murcutt does not practice outside of Australia, citing what he calls a "loss of identity or place" in much contemporary architecture.

"For me to be building in my country, for the people I know best, in the land I know best, gives me the greatest chance of success," Murcutt said.

Nevertheless, Murcutt does engage the U.S. architectural community through his teaching and visiting appointments. On the Hilltop Campus this semester,

he and Pia Sarpaneva, visiting associate professor, led a graduate design studio based on a hypothetical interpretive center for Cahokia Mounds in Illinois.

The Cahokia studio seems particularly appropriate, given Murcutt's longtime study of Australian aboriginal forms. Located just across the Mississippi River from St. Louis, the mounds are believed to have been the center of the largest prehistoric community in North America, a city of 20,000 first established around A.D. 700 and reaching its peak from 1100-1200 before decline and eventual abandonment by 1400.

By way of preparation, students researched everything from the history of the Mississippian peoples to the surrounding river systems and floodplains to local climate, animals, insects and flora.

"It's very interesting — once you start looking at all these overlays, you start to understand why the mounds are placed where they are," Murcutt said, pointing out that the class had found a clear relationship between the mounds' orientation and the position of the sun at equinox and solstice. "A whole lot of things start to come to life that have not been articulated in their fullness before."

As students began working on design conceptions, the fundamental issue became one of "amplification," of finding ways to highlight subtle characteristics without crossing the line between "conservation" and "restoration."

For instance, Murcutt said that, while the mounds originally were covered in a layer of clay, to simply re-cover them in clay would only harm remaining archeological evidence.

"It's so easy to destroy what's there," Murcutt said. In his view, a

responsible design would "hold the deterioration" while being "distinctly different from what already exists" — mimicking the past would just be another form of desecration, a conflation of fact and fiction unworthy of the mounds' status as a United Nations World Heritage site.

The mixture of contemporary forms, concern for landscape and respect for earlier civilizations is typical of Murcutt, whose own work synthesizes the high modernism of Mies van der Rohe and Alvar Aalto with such functional precedents like the Australian wool shed in buildings that are remarkably sensitive to their environments.

"I've learned a lot from the aboriginal people of Australia," Murcutt said. "I've learned to be careful on the land, to respect the land, and to not allow the land, our mother, to be harmed. I've learned about movement at the edge, about prospect and refuge and multiple layers of things that can peel back, like dressing for the summer or dressing for the winter."

"The ability to look out but not be seen, which gives a sense of privacy; the ability to see weather patterns change, to see animals — these are all very significant things," Murcutt added.

Teams

Science program connects University, middle students

— from Page 1

needed at a school like Webster Middle.

Club sponsor and special education teacher Linda Read said, "We're trying to make these kids see the possibility of going to college. I'd say 80 percent of them don't think about it because their parents and families haven't gone."

University alum John Fee is in his first year of teaching science at Webster Middle. Fee said that with the resources available to him, the type of enrichment Teaching Teams brings wouldn't be possible.

"They are able to bring things and equipment that I don't have," Fee said. "I don't have enough microscopes to give everyone, and part of the fun of using a microscope is the individuality of it."

The club members prove his point by their careful drawings and frequent consultation with the Teaching Team students. The relatively small age difference helps the groups interact, said Elaine Alexander, assistant outreach coordinator in biology in Arts & Sciences.

"Young students get tired of hearing from us old folks all the time," joked Alexander, who coordinates Teaching Teams.

Sarah C.R. Elgin, Ph.D., professor of biology, supports the Teaching Teams program. She has found that the enthusiasm flows both ways in classroom interactions.

"Our students at Washington University benefit in several ways," Elgin said. "They must think more deeply about the science they already know while they work how to teach a new concept to a younger group. The enthusiasm of the K-8 students is contagious."

Each year, the Teaching Teams make more than 100 visits to as many as 25 schools in metropolitan St. Louis. The undergraduates, many of whom are headed to medical school, volunteer their time to the program.

Alexander, a veteran middle-school educator, guides them in effective classroom methods. The program is supported by an undergraduate biological sciences education grant from the Howard Hughes Medical Institute.

Alexander explains that while

the format of the Teaching Teams only allows for brief contacts, the undergraduates in her program have always strived to do more with the teachers and students they meet.

"We do extras like judge science fairs or be there when teachers ask for help with the science-fair projects," said Alexander, who connects interested undergraduate students with schools near the University campus that have underserved student populations. "We've also started doing some tutoring."

The Teaching Teams at Webster Middle came about through a chance meeting of two enthusiastic women. Encarnación met Webster Middle principal Terre Johnson at a department store jewelry counter where Encarnación had a summer job.

When Encarnación told her about similar experiences at another school, Johnson was hooked.

When Encarnación returned to the Hilltop Campus in the fall, she recruited her classmates Chris Ngo, Rupal Bhakta and Adam Schickedanz to mentor the Teaching Teams with her. Freshman Scott Crick then joined the group this spring. The group meets weekly to plan the activities and travel to Webster Middle.

Bhakta, a junior biology and anthropology major, both in Arts & Sciences, was looking for a tutoring position when Encarnación approached her about the science club.

"I feel my knowledge could be useful to children," Bhakta said. "I enjoy working with kids, and any opportunity to share with them what I've learned is great."

Bhakta says she was surprised at how inquisitive the middle-school students are.

"A lot of them are very quiet, but there's one boy who pulled us aside and asked us questions about photosynthesis we couldn't answer," she said. "There's another girl who wants to become a vet. She loves biology and wants to go to college."

The fall meetings included planting bulbs outside the school, an activity many students had never experienced; the microscopy lesson; and creating terrariums out of plastic bottles.

The spring agenda emphasized the scientific method as many Webster Middle students participated in the citywide science fair.

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 020183
Director of Corporate Relations 020190
Deputized 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
Medical Assistant 020232
Financial Aid Awards Associate 020238
Assoc. Dir. of Dev. And Director of Annual Fund 020245
Career Development Specialist 020170
Research Technician 020183
Director of Corporate Relations 020190
Deputized 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
Medical Assistant 020232
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
Asst. Dir. of MBA Admissions 020250
Secretary/Receptionist 020255
Registrar 020257
Apartment Referral Service Manager 020260
Data Entry Processor 020261
Director, Engineering Career Services 020262
Department Secretary 020264
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
Accounting Assistant 020272

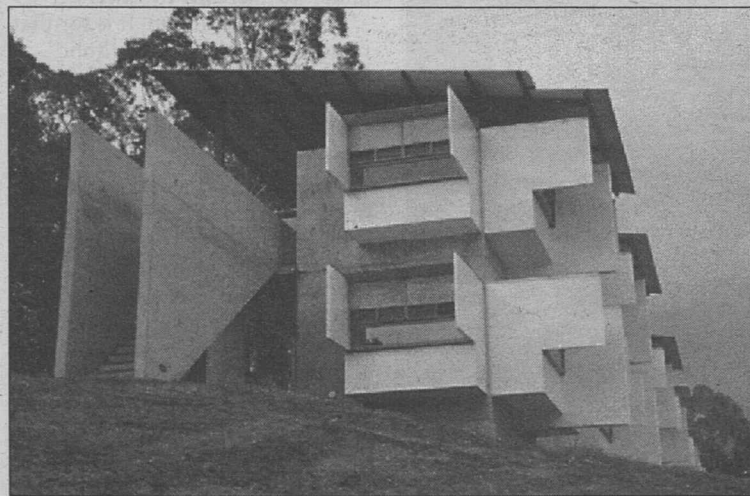
Graduate Tax & International Program Coord. 020276
Research Assistant 020278
Lab Technician III 020279
Research Technician 020281
Administrative Asst., School of Architecture 020282
Project Leader/IS 020283
System & Network Administrator 020284
Administrative Secretary 020285
Grants Coordinator 020286

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 résumés to the Office of Human Resources, 4480 Clayton Ave., Campus Box 8002,

St. Louis, MO 63110, or call 362-7196.
Insurance, Billing and Collections Asst. 021327
Nurse Practitioner 021338
Research Technician II 021339
Medical Assistant II 021345
Patient Service Representative II 021355
Patient Services Representative II 021357
Patient Services Representative 021358
Patient Billing/Services Rep. I 021371
Clinical Audiologist 021372
Insurance Billing & Collection Asst. 021373
Animal Care Technician I 021374
Research Technician II 021375
Administrative Coordinator 021376
Research Technician II 021377

Research Technician I 021378
Patient Billing Services Rep. I 021379
Administrative Coordinator 021380
Nursing Administrator 021384
Research Technician II 021385
Greeter 021386
Human Resources Specialist 021388
Shipping and Receiving Clerk 021389
Senior Research Technician 021392
Custodian 021395
Senior Budget Analyst 021396
RN-Research Patient Coordinator 021398
Glasswasher-Temporary 021405
Animal Care Technician II 021407
Animal Care Technician II 021408



Glenn Murcutt's Arthur & Yvonne Boyd Education Center, New South Wales, Australia; 1996-1999 (in collaboration with Wendy Lewin and Reg Lark).

Notables

Of note

Mark S. Sands, Ph.D., associate professor of medicine, has received a two-year, \$50,000 grant from the National MPS Society for research titled "Human Hematopoietic Stem Cell Directed Gene Therapy in a Murine Xenotransplantation Model of Mucopolysaccharidosis VIT." ...

Jane Wu, M.D., Ph.D., associate professor of pediatrics in the School of Medicine, has received a three-year, \$300,000 grant from the Muscular Dystrophy Association for research titled "Molecular Mechanisms Regulating Alternative Splicing of Survival Motor Neuron Gene." ...

Marc A. Fallah, M.D., instructor in medicine, has received a one-year, \$50,000 grant from the American Association for the Study of Liver Diseases for research titled "Clinical Investigation of Hepatic VLDL in Patients With Hepatic Steatosis." ...

Alec Cheng, Ph.D., assistant professor of medicine, has received a three-year, \$375,000 grant from the Sandler Program for Asthma Research for research titled "Regulation of Mast Cell Function by the Signaling Adaptor GADS." ...

Mark A. Watson, M.D., Ph.D., assistant professor of pathology and immunology in the School of Medicine, has received a one-year, \$350,000 grant from the Fannie E. Rippel Foundation for research titled "Developing a Genetic Approach to the Treatment of Cancer." ...

Jonathan I. Matsui, predoctoral trainee in biology and biomedical sciences in the School of Medicine, has received a two-year, \$42,160 grant from the National Institute on Deafness and Other Communication Disorders for research titled "Physiological Function of Rescued Hair Cells." ...

Gustav Akk, Ph.D., research instructor in anesthesiology in the School of Medicine, has received a three-year, \$314,296 grant from the National Science Foundation for research titled "Receptor-Ligand Interactions in the Muscle Type Nicotinic ACh Receptor." ...

Richard D. Todd, M.D., Ph.D., the Blanche F. Ittleson Professor of Child Psychiatry in the School of Medicine, has received a one-year, \$154,000 grant from the National Institute of Neurological Disorders and Stroke for research titled "Autism: Development, Genetic Epidemiology and Treatment." ...

Michael Brent, Ph.D., associate professor of computer science in the School of Engineering and Applied Science, recently received several grants: a three-year, \$900,000 grant from the National Human Genome Research Institute for a study titled "Technologies for Genomic Mapping Sequencing and Analysis" as well as a \$92,000 equipment supplement; a two-year, \$248,509 grant from the National Science Foundation for a study titled "Comparative Gene-Structure Prediction in Invertebrates;" and a one-year, \$52,469 grant from the Monsanto/Washington

University Plant Science Program for a study titled "Exploiting Genome Comparison for Gene-Structure Prediction."

Brian A. Wrenn, Ph.D., assistant professor of civil engineering, has received a one-year, \$63,000 grant from the National Science Foundation for research titled "REU Site: Environmental Engineering Science." ...

Kevin D. Moeller, Ph.D., professor of chemistry in Arts & Sciences, has received a one-year, \$120,000 grant from the National Science Foundation for research titled "Intramolecular Anodic Olefin Coupling Reactions." ...

Jonathan B. Losos, Ph.D., associate professor of biology in Arts & Sciences, has received a one-year, \$37,433 grant from the Missouri Board of Higher Education for research titled "Increasing Investigation-based Ecology in the K-12 Classroom." ...

Karen Wooley, Ph.D., professor of chemistry in Arts & Sciences, has received a 2.5-year,

\$359,133 grant from the Office of Naval Research for work titled "Advanced, Non-toxic, Anti-fouling Coatings Based Upon Nanoscopically-resolved Control Over Surface Topography, Morphology, and Composition." ...

Steven G. Krantz, Ph.D., professor and chair of mathematics in Arts & Sciences, has received a one-year, \$35,000 grant from the National Science Foundation for research titled "U.S.-Korea Conference: Satellite Conference to 2002 International Congress of Mathematicians" ...

Kristen K. Arntzen, graduate research assistant in anthropology in Arts & Sciences has received a one-year, \$5,100 grant from the Wenner-Gren Foundation for Anthropological Research for work titled "Complex Hunter-Gatherers and Subsistence Intensification: The Middle and Late Archaic of the American Midwest."

On screen

William E. Wallace, Ph.D., professor of art history and archaeology in Arts & Sciences, appeared in the BBC film *Michelangelo's David: The Private Life of a Masterpiece*. The educational film about the making and afterlife of Michelangelo's great statue has aired in England.

Speaking of

Elizabeth C. Childs, Ph.D., associate professor of art history and archaeology in Arts & Sciences, gave an invited lecture at the Art Institute of Chicago recently in conjunction with the exhibition "Van Gogh and Gauguin: The Studio of the South." She then gave a scholarly paper "Gauguin as Author: Writing the Studio of the Topics" at an international symposium at the Van Gogh Museum in Amsterdam, the Netherlands.



The ultimate challenge Stanton Willins, a member of the George Warren Brown School of Social Work's Ultimate Frisbee team, makes a pass during the 2002 Graduate-Professional Council Cup Ultimate Frisbee Tournament April 13 at Mudd Field. The GWB team was taking on a squad from the School of Medicine. The event was an interschool competition among teams from the University's eight graduate and professional schools. A barbeque was also held for all graduate and professional students at the event.

School of Engineering and Applied Science to present awards

By TONY FITZPATRICK

The School of Engineering and Applied Science will honor seven distinguished individuals April 24 at its 28th annual Alumni Achievement Awards Dinner at the Ritz-Carlton.

Alumni Achievement Award recipients are John M. Berra, Lois A. Hedg-peth, Donald R. Kozlowski, Glen E. Stuckel and Ramon A. Von Drehle.

Peter J. Hanratty will receive the Young Alumni Award, and John K. Russell, Ph.D., vice dean of academic affairs in the School of Engineering and Applied Science, will receive the 2002 Dean's Award.

The dinner will begin at 6:15 p.m. with cocktails, followed by dinner and the awards program at 8 p.m. Dean Christopher I. Byrnes, Ph.D., will present the awards.

A native St. Louisian, **John M. Berra** earned a bachelor of science degree in systems science and engineering in 1969. He worked for Monsanto Co., J.F. Pritchard & Co. in Kansas City, Mo., and Beckman Instruments in Houston before joining Rosemount Inc. in Minneapolis as an industry-marketing manager.

Emerson Electric acquired Rosemount that same year. Berra

rose steadily through the ranks at Rosemount, finally being promoted to executive vice president of Emerson and business leader for Emerson's Process Management Group in 1999.

Currently, Berra is responsible for \$3.5 billion in annual sales and 20,000 employees.

After a career spanning 23 years, **Lois Hedg-peth** retired from AT&T in November 2001. She earned a bachelor's in systems science and engineering in 1978.

Hedg-peth joined AT&T in 1978 as an operations supervisor in Phoenix. She spent the next 19 years working in various administrative capacities for AT&T in assignments that took her to both coasts.

In 1997, Hedg-peth was named AT&T president for Pacific and Western states. In April 2000, she joined the wireless group of AT&T as president of fixed wireless operations.

St. Louis native **Donald R. Kozlowski** earned a master of science degree in electrical engineering in 1968. Kozlowski started his career in communications and worked on the Mercury/Gemini spacecraft, advanced aircraft, and the introduction of the F-4 Phantom II into

the Navy fleet.

He spent nearly 10 years in reconnaissance and electronic warfare/electronic intelligence in a variety of assignments. In 1972, he transitioned from the world of avionics to aircraft design and eventually to the field of program management.

Kozlowski retired in September 1997 as senior vice president of Boeing military transport aircraft in Long Beach, Calif.

Glen E. Stuckel earned a bachelor's in industrial engineering in 1960. He then joined Laclede Steel Co. as a salesman in industrial and construction products, eventually moving to Kentucky to become sales manager of the Louisville office.

In 1977, he left Laclede Steel to start a construction business, Glen E. Stuckel Builder Inc., specializing in home building and remodeling construction. Stuckel also is managing broker of Glen E. Stuckel Real Estate in Louisville.

Since 1978, his company and related companies have built hundreds of homes and completed over a thousand remodeling projects.

Ramon A. Von Drehle graduated with a degree in industrial engineering in 1952. He obtained a law degree the University of Texas in 1957 and

later joined Ford Motor Co., where he served as senior attorney.

Von Drehle specialized in international and financial transactions. Living in the United Kingdom, he eventually worked in every European capital and became vice president and general counsel for Ford's activities in Europe, the Middle East and Africa.

In 1979, he became chief legal officer for Ford's global financial services activities. He is retired and now lives in the Washington, D.C., area.

Peter J. Hanratty earned a master of science degree in 1988 and a doctorate in 1991, both in chemical engineering.

Hanratty currently is a director in global solutions at Massachusetts-based Aspen Technology, a leading supplier of integrated software and solutions to the process industries. The focus is on advanced process control, optimization and integration in the chemical industry.

He has played an integral role in the development of real-time optimization (RTO) as a technically and commercially viable field. Hanratty has made significant contributions in the development of the earliest commercially available software

for RTO and expansion of RTO.

John K. Russell has been a familiar name and face in the School of Engineering and Applied Science. He started in 1969 as assistant dean and registrar, subsequently serving as associate dean, and, currently, vice dean of academic affairs, among other responsibilities.

In 1958, Russell started graduate studies at the University of Illinois as an electrical engineering teaching assistant. For most of his 10 years there, Russell worked as a resident assistant in a private dorm.

Once he earned a doctorate in electrical engineering, he found a perfect fit at Washington University, where he could network with engineering students and work with them on their problems.

For more information on the dinner, call Charla Bruce at 935-4894.

Bookstore sale today

The Campus Bookstore will be holding its Spring Sidewalk Sale from 10 a.m.-3 p.m. today in Bowles Plaza. The sale will feature 30 percent-75 percent off regularly priced books, clothing and gift items.

Washington People

People make changes in their lives. Some people opt for a nice car, maybe a trip to more sunny climes for a week, month or more.

But Linda J. Nicholson tried something else. She moved to St. Louis.

After living most of her life on the Eastern Seaboard, Nicholson, Ph.D., director of the Women's Studies program and the first Susan E. and William P. Stiritz Distinguished Professor in Women's Studies and History, both in Arts & Sciences, decided it was time for a major change.

So after 25 years at the State University of New York-Albany, she applied for the Stiritz distinguished professorship at the University.

"When one applies for a job, there's always a bit of a risk," Nicholson said. "Particularly when one already has a job. Then I came out here and saw it was a terrific job, a terrific university, and here I am."

Indeed. And those in the know — and who made the ultimate decision — say the University



Linda J. Nicholson, Ph.D., director of Women's Studies and the Susan E. and William P. Stiritz Distinguished Professor in Women's Studies and History, both in Arts & Sciences, makes a point during her Feminist Theory course as student Barrie Suskin takes notes.

Pioneer in an emerging discipline

Linda J. Nicholson strives to show that feminism is a political philosophy on par with the big ones

By Andy Clendennen

made the right choice.

"She has an outstanding record of scholarship," said Helen W. Power, Ph.D., former coordinator and now senior lecturer in Women's Studies and co-chair of the committee to fill the Stiritz distinguished professorship. "She has a name that is almost a household word among people in the feminist academic community. She is well-respected for her writing and her editing."

"I think that she has taken her job very seriously, and I think everyone has responded to the fact that she is serious about her work and her scholarship."

Nicholson first became interested in feminism in the late 1960s, but it wasn't until 1975 that she became fully immersed in feminism as an area of academic research. After earning a bachelor's degree in philosophy from the University of Pennsylvania, Nicholson headed to the University of Michigan to pursue a post-graduate degree in philosophy.

That lasted all of three weeks.

"They were really not strong in social and political philosophy, which is why after about three weeks I realized that I really didn't want to be there," Nicholson said.

So she enrolled at Brandeis University and earned a master's and a doctorate in the history of ideas program.

"My graduate work was really focused on social and political philosophy," Nicholson said, "and for a period of time, up until the early 1970s, while I had been becoming more interested in feminism, I didn't put together

my personal political interests in feminism with my academic interest in social and political philosophy."

"One looks back on it and thinks, 'How could I have not made that connection?' But one has to get into the mind-set of the period when nobody was thinking about these issues. Political philosophy was about Locke, or liberalism or conservatism, and that's how one defined political philosophy."

After Brandeis, Nicholson taught for

a year at the University of Lancaster in northern England. She then returned to the United States to teach at SUNY-Albany.

"At Albany in the mid-1970s, somebody came and asked me if I would teach a course called Feminist Social and Political Thought at SUNY-Albany, and I said 'yes,'" Nicholson recalled. "And in the course of preparing to teach that course, everything clicked. I realized that feminism itself was a political philosophy with complex relationships to other political philosophies."

"Actually, the working title of my first book was *Feminism as Political Philosophy*, because I

"Academic institutions have their own cultures," she said. "They are like cities or neighborhoods. Washington University has a culture, and it has a good culture."

"One of the good aspects of the culture here is the commitment of the administration to the quality of the undergraduate programs. There isn't a narrow focus on the bottom line. Colleges and universities that are strapped economically don't have much of that freedom. But they can be more idealistic here, and I think that generates faculty respect."

The respect is reciprocal.

"(Nicholson) has an outstanding record of scholarship. She has a name that is almost a household word among people in the feminist academic community. She is well-respected for her writing and her editing."

HELEN W. POWER

really wanted to show that actually feminism was a political philosophy. And in some ways, it was a superior political philosophy to the biggies, such as Marxism."

The title of the book eventually became *Gender and History: The Limits of Social Theory in the Age of the Family*. In it, Nicholson argued that in the history of Western political philosophy, there had been a significant problem: Some of the major contributors to that history had not recognized that the relationship between private and public life was a historically changing relationship.

They took the existing form of that relationship, the form found in their own societies, and assumed it was natural.

Also while at Albany, Nicholson developed and edited the 32-volume series *Thinking Gender*, which is often credited with shaping the emerging discipline feminism as a political philosophy. In her career, she has written two books and more than 70 articles and reviews.

But 25 years in upstate New York was enough, so she made the jump with both feet and landed just west of the Arch. Nearly two years later, she doesn't regret the move one bit.

"The University community has welcomed Linda," Power said. "She has been sensitive to the University culture and is already making great contributions to it. And she is not only well-accepted and well-liked by the community, but I also think the feeling is mutual."

Nicholson is in charge of a rapidly growing and ever-changing program. There is always a large demand for the 37 courses that are offered as part of Women's Studies.

Nicholson doesn't anticipate the enrollment rate decreasing in the near future.

"People have been saying for years that feminism is a fad and will last maybe another year and be gone, and people are still saying that today," she said. "And they've been saying the same thing about women's studies. They say it was important and interesting and did some useful things, but it wasn't a long-term program."

"But all academic disciplines are always changing and going in new directions. With women's studies, we are in a period where issues of social identity have become in some instances more, rather than less, important. Certainly we think about social identity

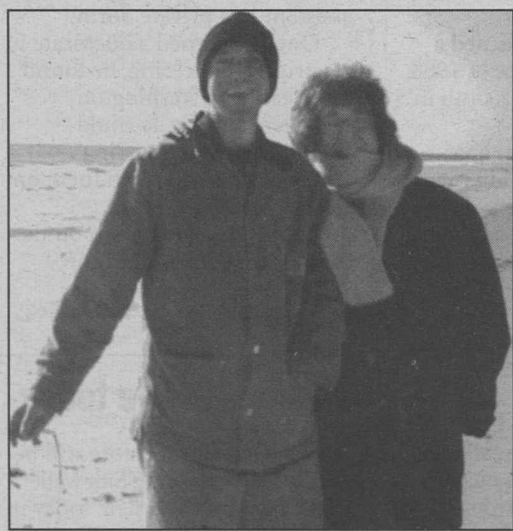
differently than we did 30 years ago. Now we've gone beyond simple understandings as we recognize how categories of social identity intersect with social class, age and culture."

She continued, "If anything, as a society, the gender gap hasn't become less important, it's become more important, and that's an interesting question — why has it become more important? How can the gender gap have gotten more important when people are claiming we are in the post-feminist era? Isn't there something a little contradictory about that? How post-feminist can we be if gender is not a central issue?"

Nicholson is working to correct some of society's misconceptions, or to at least educate more and more people about what feminism really means. And some are taking the lesson to heart.

"As I finished my dissertation last year, she read and reacted to parts of its argument," said Susan Stiritz, who earned a doctorate at the University. "She attended my defense of my dissertation and has continued to give me advice on research, writing and teaching. I am only one of many she helps in such ways. She has started a symposium on campus this year in which feminist scholars read their works in process. While she has a large and enthusiastic audience for her own work, she has not forgotten how new writers need others to listen and respond if they are to develop their ideas."

"I see Linda building on the planning, work and values of Helen Power in ways that are making the expansion of Women's Studies an exciting opportunity for the University."



Nicholson and her nephew, Peter Nicholson, enjoy a walk on the beach on Long Island, N.Y.

Linda J. Nicholson, Ph.D.

Born: Philadelphia

University titles: Director, Women's Studies program; the Susan E. and William P. Stiritz Distinguished Professor of Women's Studies and History, both in Arts & Sciences

Years at the University: 2

Education: B.A., philosophy, University of Pennsylvania, 1968; M.A., history of ideas, Brandeis University, 1970; Ph.D., history of ideas, Brandeis University, 1975

Books authored: *The Play of Reason: From the Modern to the Postmodern* (1999); *Gender and History: The Limits of Social Theory in the Age of the Family* (1986)