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Record

2005

Volume 29 No. 35



Washington University in St. Louis

DR. PAUL G. ANDERSON
BOX NO. 8132

Named Initiatives Assistant

BY ANDY CLENDENNEN

In an effort to strengthen diversity among the University's students, faculty and staff, Chancellor Mark S. Wrighton has appointed Leah Merrifield as special assistant to the chancellor for diversity initiatives.

Merrifield, director of community relations in the Office of Governmental and Community Relations, will assume her new position July 1. She will report to Wrighton.

"I think we need to apply new energy and creativity to our work on the campus to build a stronger faculty and staff by strengthening diversity and improving gender balance where that is an issue," Wrighton said. "Leah Merrifield has done a wonderful job in her present position as director of community relations, and I have no doubt that she will bring much enthusiasm and wisdom to our new efforts."

While steady progress in strengthening diversity has been made over the past few years, the recent accreditation review by the North Central Association's Higher Learning Commission concluded that the University had not done as much in this area as it had done in other important areas that have contributed to the University's success.



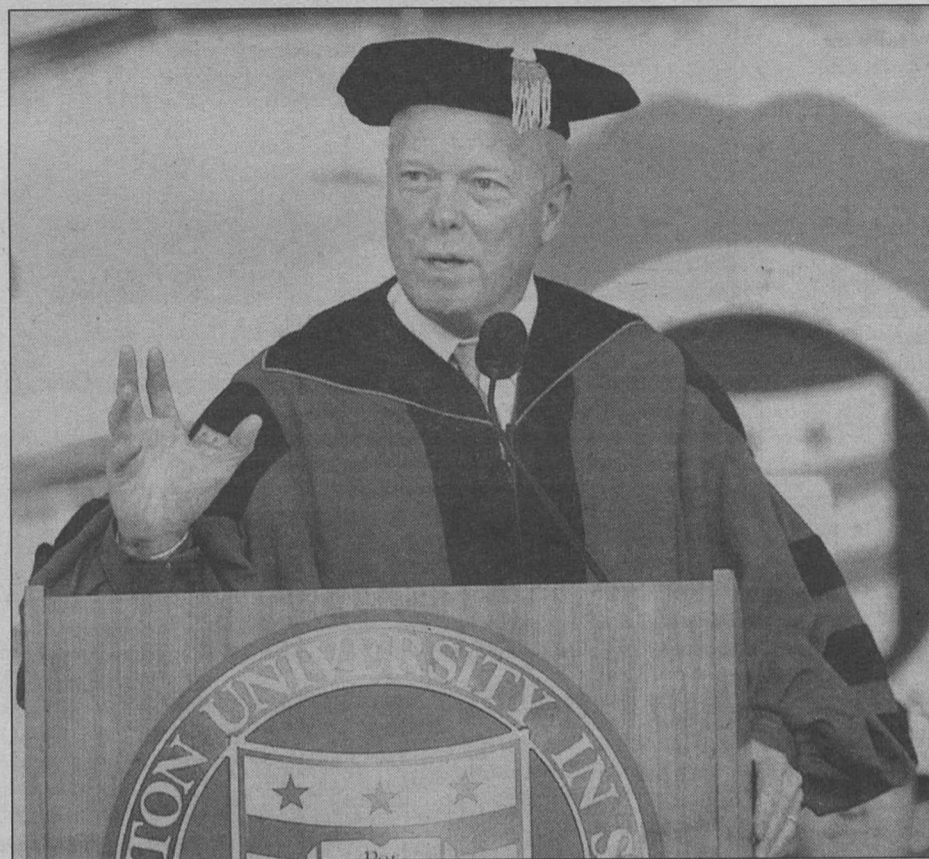
Merrifield

Wrighton said that the initiatives will be "University-wide and will include efforts to strengthen both faculty and staff."

Wrighton is asking that each school and major administrative area designate a person who will serve as a point person in connection with the renewed effort to strengthen diversity. Merrifield will be the coordinator of this new University-wide group.

"I am honored to have been asked by Chancellor Wrighton to lead this challenging and important effort to strengthen the University's diversity and gender balance,"

See Merrifield, Page 6



Richard A. Gephardt addresses the 12,000 people — including some 2,500 new graduates — gathered in Brookings Quadrangle May 20 for Commencement.

Gephardt reminds graduates of the Golden Rule's value

BY ANDY CLENDENNEN

Much has changed in the world since Richard A. Gephardt attended his own college graduation more than 40 years ago, the former U.S. House minority leader said in his address at the University's 144th Commencement May 20 in Brookings Quadrangle.

But what hasn't changed is the uncertainty that faces recent college graduates.

"We had no idea what we were heading into as we left on our graduation day," Gephardt said. "Neither, I suspect, do you. And it would be a reckless commencement speaker who ventured too many predictions about a world that in his own lifetime has confounded so many expectations."

"But what is clear, I believe, is how different and uncertain your time is — and how much it demands from your generation. Many of the differences are happy ones."

"The long twilight struggle" has yielded to a new dawn of freedom across Eastern Europe, the old Soviet empire, and all across the globe," Gephardt continued. "The long nighttime of communism and

totalitarianism is not over, but we are entering a new era where ordinary citizens everywhere are speaking out freely and are no longer afraid of murderous dictators.

"We have written sanctions for racial discrimination out of our laws, though it clearly remains seared in our national life."

Gephardt and four others — William H. Gass, Emily R. Pulitzer, Robert G. Roeder and James E. Stowers Jr. — received honorary doctoral degrees at the ceremony, attended by more than 12,000 people, including some 2,500 new graduates and more than 100 members of the Class of 1955 celebrating their 50th reunion.

Gephardt praised the advances in technology that have given the world compact computers, cell phones, PDAs and, "as I know from my own son's experiences here at the Washington University medical school, (technology) has also brought breakthrough medical advances, so that in many cases today, as in my son's, cancer is a survivable disease."

But he stopped short of urging the graduates to change the world.

See Gephardt, Page 6

Genes affect sensitivity to alcohol

BY GWEN ERICSON

Can you blame your genes if you can't handle your liquor? A new study conducted at the School of Medicine may pave the way to finding out.

Researchers found that the brain's response to alcohol is partially under the influence of two genes. The genes, studied in both adult and newborn mice, were found to affect sensitivity to alcohol intoxication, interest in alcohol consumption and risk of developmental brain damage from alcohol.

"Now that we understand these genes are involved in neural processes affected by alcohol, we think they will be good candidates to look at in the human population," said Louis Muglia, M.D., Ph.D., associate professor of pediatrics, of molecular biology and pharmacology and of obstetrics and gynecology. "It will be interesting to see if there are human variants of the genes associated with either fetal alcohol syndrome or addictive behaviors in adults."

To uncover the genes' effect, the research team, led by Muglia, inactivated the two genes in mice.

In newborn mice with the genetic inactivation, ethanol (the alcohol used in beer, wine and spirits) caused significantly more neurodegeneration than it did in normal newborn mice. In adult mice with the genetic inactivation, the sedative effect of ethanol lasted up to twice as long.

Furthermore, when ethanol was freely available, adult mice with the inactivation drank much less ethanol than normal animals.

The researchers reported their findings in two recent articles in the *Journal of Neuroscience*. James W. Maas, predoctoral trainee, is first author of both studies.

The genes studied make enzymes called adenylyl cyclases (AC), which support neural function and contribute to learning and memory. These enzymes are so essential that they exist in 10 similar forms, and some type of AC is found in every cell of the body.

Two forms, AC1 and AC8, are found mainly in neurons. The researchers eliminated AC1 and AC8 from the brains of the mice by inactivating the genes that code for the enzymes.

"We wanted to test how the lack of AC1 and AC8 would influence ethanol-induced neurodegeneration in the brains of newborn mice — as a model for what happens in fetal alcohol syndrome in humans — and also how it would affect adult mice that consumed ethanol," Muglia said.



Muglia

See Alcohol, Page 6

Pakrasi to head Energy Department 'grand challenge'

BY TONY FITZPATRICK

WUSTL researchers will partner with the W.R. Wiley Environmental Molecular Science Laboratory (EMSL) at the Department of Energy's Pacific Northwest National Laboratory (PNNL) to embark on a "grand challenge" — an innovative, multidisciplinary project — to explore scientific enigmas in microbiology.

One project, led by WUSTL's Himadri B. Pakrasi, Ph.D., professor of biology in Arts & Sciences, and PNNL laboratory fellow David Koppenaal, Ph.D., will investigate the biology of membrane proteins in cyanobacteria, important microorganisms involving photosynthesis in the world's oceans.

Choosing Pakrasi as the leader of the Grand Challenge Project marks the first time that the Energy Department has chosen a university scientist to lead such an endeavor in a National Laboratory.

"This is a one-of-a-kind opportunity," Pakrasi said. "If successful, it could open the doors for similar other projects."

Another project, not involving Washington University, is led by PNNL laboratory fellows and chief scientists John Zachara and Jim Fredrickson, is probing the fundamental question of how subsurface metal-reducing bacteria interact with and transfer electrons to the mineral surfaces on which they live.

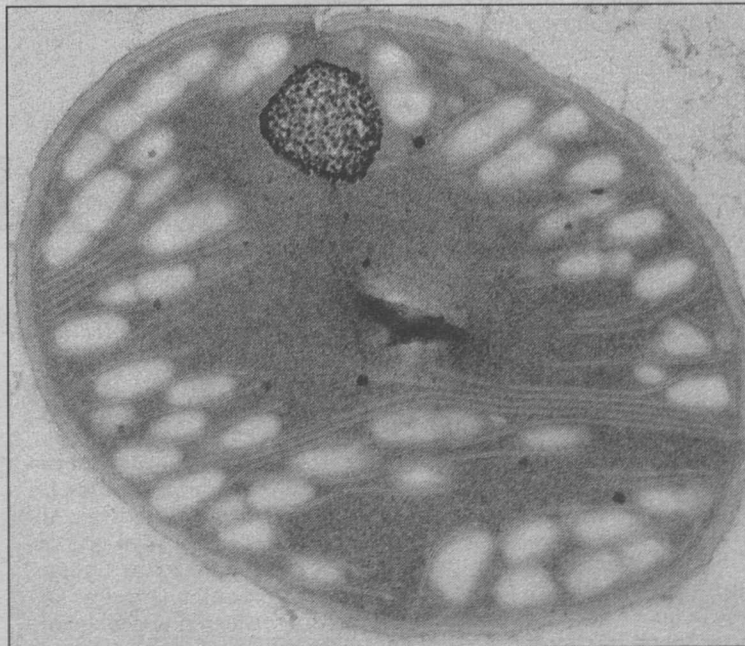
More than two dozen re-

searchers from 16 institutions will participate in the three-to-five-year studies, with a PNNL investment of \$2 million a year for each grand challenge, or around \$10 million for the life of the projects.

Investigators anticipate that the grand challenges will yield new information on issues ranging from how energy and nutrient transport occurs between microbes and their environment, to how microorganisms influence Earth's soil and water chemistry,

See Pakrasi, Page 6

Himadri B. Pakrasi's Grand Challenge Project will focus on the amazing cyanobacterium *Cyanobacteria* (right), the only bacteria with a circadian rhythm, or biological clock.



Frahm Family Professorship established in Olin School

By BARBARA REA

Alumnus Donald R. Frahm has established a professorship in the Olin School of Business.

The gift of \$1.2 million, which has been augmented with \$300,000 from the University's Sesquicentennial Endowed Professorship Challenge, was announced by Chancellor Mark S. Wrighton. It will create the Frahm Family Professorship, which will soon be awarded to an Olin School faculty member.

"This generous gift from Donald Frahm is a wonderful tribute to his family," Wrighton said. "We are deeply appreciative that he has chosen to support Washington University in this way."

"Faculty support is an important priority for the University. With this gift, we will be able to attract and recognize outstanding faculty for generations to come. We are honored to have the Frahm name associated with Washington University in perpetuity."

Concurring with Wrighton, Stuart I. Greenbaum, Ph.D., dean of the Olin School and the Bank of America Professor of Managerial Leadership, said: "We are extremely grateful for Don's support of the Olin School, for this gift and for all he has done for the school over the years."

"A loyal and dedicated alumnus, he is genuinely interested in the vitality of the school and in helping our students realize their dreams."

The 1953 graduate of WUSTL's business school was very active during his undergraduate days, joining Sigma Chi fraternity, playing varsity baseball and participating in Thurtene Honorary events.

After graduation, his interest in and support of the University and the Olin School did not wane. Over the years, he has helped raise funds for two capital campaigns, has been a member of the William Greenleaf Eliot Society and has established the Jean and Donald Frahm Scholarship through the Scholars in Business program.

Following in his footsteps, Frahm's son, Mark, graduated from WUSTL with a master's degree in business administration

in 2000.

Frahm is a member of the Olin School's national council. In recognition of his efforts on behalf of the University, which include membership in the Boston Regional Cabinet and its Regional Campaign Committee, he received the school's Distinguished Alumni Award in 1989 and the University's Distinguished Alumni Award in 1996.

In 1997, he retired as chairman, president and chief executive officer of The Hartford Financial Services Group Inc., a company he joined 23 years earlier as vice president for commercial liability underwriting. At that time it was known as ITT Hartford Insurance Group.

Quickly rising through the ranks, he became president and chief operating officer of the company in 1983. Five years later, he was named chairman and chief executive officer of ITT Hartford and its principal company, Hartford Fire Insurance Co.

Under his leadership, the company's revenues grew to exceed \$12.2 billion.

During that time, Frahm was recognized by *BusinessWeek* as one of the country's best managers. The Hartford Co. became independent in 1995, returning its headquarters to Hartford, Conn., and boosting economic conditions in the region.

In 1996, *The Hartford Courant* named him "Business Leader of the Year."

Community involvement for Frahm and his wife, Jean, is an important component in their lives and includes supporting Hartford Hospital and the Connecticut Children's Medical Center. He also serves on the Greater Hartford Chamber of Commerce.

As an industry leader, Frahm was a member of the American Insurance Association, where he chaired a special committee on the "Superfund." He also was a chairman of the Insurance Information Institute and a leader in the Advocates for Highway and Auto Safety program.



Wallace distinguished professor Martin Cripps, Ph.D., professor of managerial economics and chair of the M.B.A. alumni committee at the Olin School of Business, gives a presentation of his work at his installation as the John K. Wallace Jr. and Ellen A. Wallace Distinguished Professor of Managerial Economics on May 11 in the Charles F. Knight Executive Education Center. "Martin Cripps is a world-class economist," says Stuart I. Greenbaum, Ph.D., dean of the Olin School and the Bank of America Professor of Managerial Leadership.

Shuttle system to offer new Blue Line in fall semester

By ANDY CLENDENNEN

The University shuttle system keeps getting more colorful. Shuttle riders are familiar with the Gold, Red and Green lines — and now comes the Blue Line.

Starting in the fall, the Blue Line will take some of the stops currently served by the Green Line, dramatically decreasing travel time. The Blue Line will connect the Hilltop, West and North campuses.

"The Green Line has been a route that was intended to serve a number of groups and it's targeted at students that live in University City, Greenway Apartments and art students who need to get up to the Lewis Center and Art Studio

on Vernon," said Lisa Underwood, manager of parking and transportation services.

"Most recently, the University moved offices into North Campus, so what happened was that more things were added to that area so that old Green Line just grew and got a little bit too long to give quick service."

The Green Line will continue to serve the western part of its route; the Blue Line will primarily run the eastern portion.

Also, shuttle service hours could be extended until 2 a.m.

Additional stops have been added to the Red Line. Starting in the fall, the Red Line will stop at Wal-Mart, Sam's Club and ArtMart.

Sports

Women's 4x400 relay takes second at NCAAs

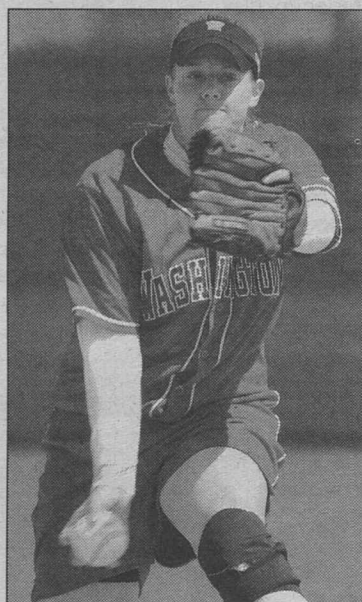
The women's 4x400 meter relay team notched a second-place finish for the second straight NCAA meet to conclude the final day of the 2005 Division III Outdoor Track and Field Championships May 28.

Fresh off a ninth-place finish in the NCAA Indoor Championships, the women's track and field team rallied in the final day for 18 points to finish in a tie for 13th place with 22 points. The 13th-place finish is the second-highest finish in school history at the outdoor meet. WUSTL recorded a ninth place finish in 1998.

The Bears relay 4x400 relay team ran a school record 3:46.13, shattering the old record of 3:50.03. All four athletes ran a personal best, and the time was the second fastest in Division III in 2005. The relay All-America citation is the first in outdoor school history, and second overall.

Freshman Danielle Wadlington, sophomore Natalie Badowski, junior Laura Ehret and junior Michelle McCully comprised the team.

Senior Hallie Hutchens earned All-America honors for the third time in her career placing sixth in the women's 100 hurdles.



Laurel Sagartz finished the season with a 24-3 record and a 0.81 ERA. For good measure, she batted .346 with 38 RBIs.

Badowski is 1st-team academic all-district

Sophomore Natalie Badowski garnered *ESPN The Magazine* track and field first-team Academic All-District VII College Division honors, as announced by the College Sports Information Directors of America. Badowski is eligible for selection to the Academic All-

America Team, which will be announced June 23.

Baseball wins one, loses two in regionals

The baseball team went 1-2 at the NCAA regional May 19-21 in Bloomington, Ill.

The Bears dropped a 4-2 decision in the opening game of the regional to Wartburg College, the eventual regional champion. In the second game, junior Bryan Brown went 5 for 5 with five singles in leading WUSTL to a 12-9 win against top-seeded Aurora University. Junior Kent Wallace picked up the win in relief for the Red and Green; classmate Jim Haley went 4 for 6 with three RBIs.

The Bears' year ended against Edgewood College, losing 4-0.

Corning is third-team academic All-American

Junior Ryan Corning has been named an *ESPN The Magazine* College Division third-team Academic All-America, as selected by the College Sports Information Directors of America.

Corning is the fifth WUSTL player in program history to earn the accolade.

Corning, a 2004 and 2005 Academic All-District honoree, start-

ed all 42 games this season at shortstop. He batted .346 with a team-high 47 runs, 53 hits, 13 doubles, four home runs and 24 RBIs.

A team captain, Corning also broke the single-season school record with 137 assists. His .386 career batting average ranks second, and he is tied for ninth all-time with 13 home runs.

Swary named Academic All-America of the Year

Senior Liz Swary has been named the 2005 *ESPN The Magazine* College Division Softball Academic All-America of the Year, as selected by the College Sports Information Directors of America.

Swary, a three-time first-team Academic All-District VII and Academic All-America selection, became the fourth WUSTL student-athlete to earn the award.

A first-team All-America selection in 2005, Swary batted .415 with seven home runs and a school-record 57 RBIs. She also led the team in runs scored (44), doubles (20) and slugging percentage (.726).

Swary ended her career ranked 14th in Division III history in doubles (55) and RBIs (174) and 25th in home runs (26).

Skinker set to be closed temporarily at Parkway

By ANDY CLENDENNEN

Skinker Boulevard will be closed to all traffic at Forest Park Parkway from 6 p.m. today through 5 a.m. June 23.

The closure is necessary to remove the temporary bridge at that intersection and to complete reconstruction of permanent roads there. These dates and times could change in the case of bad weather or unforeseen conditions.

Only local traffic will be permitted on Skinker between Clayton Road and Lindell Boulevard, and between Delmar Boulevard and Pershing Avenue, during this closure.

Traffic congestion is likely throughout the area. Motorists are encouraged to use one of the following routes.

Motorists traveling south on Skinker will detour east on Delmar, south on Kingshighway Boulevard, west on Interstate 64 (Highway 40) and south on Skinker.

Northbound motorists will detour east on I-64, north on Kingshighway, west on Delmar and north on Skinker.

No pedestrians will be permitted through the intersection of Skinker and the Parkway during this closure.

Northbound pedestrian traffic will travel east on Lindell, north on Des Peres Avenue, west on Pershing and north on Skinker.

Southbound pedestrian traffic will travel east on Pershing, south on Des Peres, west on Lindell and south on Skinker.

Local traffic will be able to use Skinker to access side streets between Clayton and Lindell or between Pershing and Delmar.

Record

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Washington University in St. Louis

School of Medicine Update

Post-op treatment for heart irregularity shows promise

By GWEN ERICSON

Atrial fibrillation — one of the most common and least manageable postoperative complications of heart surgery — may soon have an effective treatment.

In laboratory tests in dogs, cardiac researchers at the School of Medicine have found that treatment with anti-inflammatory drugs after heart surgery may lessen or prevent atrial fibrillation.

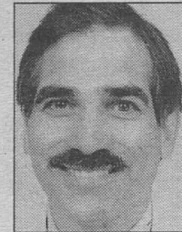
The findings were reported in the June 7 issue of *Circulation*.

Atrial fibrillation, a rapid, irregular twitching of the upper chambers of the heart, occurs in a quarter to half of patients who undergo heart surgeries such as coronary bypass or valve replacement. The condition can lead to serious postoperative complications, including congestive heart failure or stroke.

"Patients have suffered postoperative atrial fibrillation

since the early days of cardiac surgery, and while beta-blockers — drugs used to prevent abnormal heart rhythms — seem to reduce the incidence, there has been no cure,"

said senior author Ralph J. Damiano Jr., M.D., the John Schoenberg Professor of Surgery. "Our research suggests inflammation is the cause of postoperative atrial fibrillation, and this gives us new options for preventative therapy."



Damiano

The researchers investigated the effects of heart surgery in dogs. They found that the severity of atrial fibrillation corresponded to the amount of inflammation in surgically treated heart tissue. Inflammation led to changes in the electrical properties of the atria.

The inflammatory response consists of alterations in blood flow, increased permeability of blood vessels and

escape of cells from the blood into the tissues. It is a normal response of tissue to injury that speeds the healing process in most instances.

"We found that inflammation led to nonuniform conduction of electrical impulses in the atria," Damiano said. "There were areas of very slow conduction and areas of normal conduction. The result was chaotic contractions of the atria."

Anti-inflammatory therapy increased the uniformity of the conduction of electrical impulses and decreased the incidence of atrial fibrillation.

The researchers will continue their studies in dogs and attempt to block inflammation of heart tissue while preserving normal inflammatory response in the rest of the body.

"Our hope is that we can soon bring this treatment to the operating room and eliminate one of the major complications of heart surgery," Damiano said.

Method helps immune system attack its invaders

By MICHAEL C. PURDY

School of Medicine scientists have uncovered a method the immune system uses to label foreign invaders as attack targets.

Researchers showed the immune system can brand foreign proteins by chemically modifying their structure, and that these modifications increased the chances cells known as lymphocytes would recognize the trespassers and attack them.

"Now that we know some T cells need to see these types of modifications to identify an invader, we can see if incorporating such changes into the proteins is helpful for vaccination," said senior author Emil R. Unanue, M.D., the Edward Mallinckrodt Professor and head of the Department of Pathology and Immunology.

The finding may also be relevant to autoimmune conditions, in which the immune system erroneously attacks healthy tissues. Such disorders include rheumatoid arthritis, multiple sclerosis and type 1 diabetes.

"This study shows that during some infections, these same types of modifications can be made to our own proteins, potentially leading to T cell attacks on the self," Unanue said.

Unanue and his colleagues, who recently published their results in the *Proceedings of the National Academy of Sciences*, conducted their studies in mice and in cultures of mouse cells.

Jeremy Herzog, a research associate in Unanue's lab, conducted many of the experiments and was the study's lead author.

T cells belong to a class of immune cells known as thymic lymphocytes, which in turn are a component of the branch of the immune system known as adaptive immunity. This branch responds to pathogens after they interact with the other major branch, the innate immune system. T cells kill pathogens or produce molecules like cytokines that stop their growth.

Scientists have known for some time that a second class of innate immune system cells known as antigen-presenting cells help T cells determine what to attack. They do this by displaying fragments of proteins they have picked up on their surfaces for inspection by T cells. Fragments of proteins are called peptides.

Researchers also knew that when antigen-presenting cells are activated by inflammatory factors or microbial products, they start putting out chemically unstable compounds such as nitric oxide and superoxide. Together, these compounds generate peroxynitrite, a highly potent chemical that modifies many proteins.

Unanue's group showed that this chemical modifies the peptides presented by antigen-presenting cells in several distinct ways. For example, they attach a nitrate group to the amino acid tyrosine in the peptides, changing it to nitrotyrosine.

Unanue's lab then showed that these changes increased the chances various types of T cells would react to the modified peptides shown to them by antigen-presenting cells.

Unanue's group is working to substantiate their findings and explore their potential relevance to different areas of biomedical research. He notes that insulin-producing beta cells, the pancreatic cells attacked by T cells in type 1 diabetes, also generate reactive compounds similar to those made by antigen-presenting cells.

"The beta cells could therefore be modifying their own proteins in the same way that antigen-presenting cells are modifying foreign proteins," he said. "We're now investigating whether such modifications can cause T cells to attack beta cells."

Damaging oxidative reactions are also believed to play a role in atherosclerosis. Scientists suspect oxidative damage in the blood vessel walls may lead to immune reactivity that contributes to narrowing and stiffening of blood vessels.



Highly appreciated Project ARK child life specialist Stacey Slovacek (left) and case manager Aimee Nolan enjoy ice cream at the School of Medicine's Employee Appreciation Day picnic at Hudlin Park. More than 8,000 medical school employees attended the June 10 picnic, which featured food, games, music and prizes, including American Airlines and Cardinals tickets. Slovacek and Nolan work with Project ARK (AIDS/HIV Resources and Knowledge), a University organization that enhances the lives of those infected, affected or at risk for HIV/AIDS through coordinated medical care, social support and prevention services.

Older overweight adults needed for study

By JIM DRYDEN

Older obese people can improve physical function and lessen frailty by losing weight and exercising, according to a School of Medicine pilot study.

"We have known for a long time that exercise and weight loss can lower the risk of obesity-related problems in younger people, but until now there were not studies to determine if it has the same protective effects in older obese people," said principal investigator Dennis Villareal, M.D., assistant professor of medicine.

"This preliminary study shows that exercise and weight loss seem to provide these benefits, but we need to replicate these findings in a larger study."

Villareal recently reported the results of the pilot study at the annual meeting of the American Geriatrics Society in Orlando, Fla.

Villareal's team followed 27 people whose average age was 70 and who were at least 40 pounds overweight.

Participants were randomly assigned to either continue their current lifestyle or were placed into a group in which they received six months of behavior therapy for weight loss, in conjunction with flexibility, aerobic and resistance-training exercises three times per week.

After six months, members of the diet-and-exercise group had less body fat and were stronger than the nonexercisers. They also fared better on endurance tests

and scored higher on quality-of-life and physical-capability studies.

Villareal hopes to replicate these findings over a longer time period in a larger group.

His team is recruiting people ages 65-80 who are at least 40 pounds overweight. Volunteers cannot have diabetes or heart disease.

Volunteers will receive physical exams, blood and urine tests, electrocardiograms and treadmill tests to see if they qualify. They will also fill out questionnaires about quality of life, physical capabilities and limitations as well as cognitive function.

Those who qualify will receive additional tests, including an X-ray screening that helps determine total body fat; magnetic resonance imaging to measure fat in the abdomen, thighs and liver; and tests to measure flexibility, strength, balance and exercise endurance.

Participants in the new study will be divided into four groups.

The groups will either continue their normal lifestyle, go on a weight-loss diet, start a supervised exercise program or begin a diet-and-exercise program.

Volunteers will receive medical screenings and assessments at the start of the study, after six months and at one year.

Medical tests are free for study volunteers. For more information, call study coordinator Nicole Wright at 362-2394.

Ludmerer receives American College of Physicians' highest honor

By KIM LEYDIG

Kenneth M. Ludmerer, M.D., professor of medicine in the School of Medicine and of history in Arts & Sciences, was recently inducted as a master of the American College of Physicians. Ludmerer was one of only 45 physicians nationwide elected to mastership in 2005 at the college's annual meeting in San Francisco.

Mastership is the highest level achievable in the organization, and only a small group of highly distinguished physicians receive

the honor. The distinction recognizes physicians who exhibit pre-eminence in practice or medical research, hold positions of high honor or make significant contributions to medical science or the art of medicine.

According to the American College of Physicians, mastership is bestowed "in recognition of exceedingly stellar career accomplishments and service to the college."

The American College of Physicians is the largest medical-specialty organization and the second-largest physician group in the

United States. Membership includes more than 116,000 physicians, medical students, residents and fellows. The college works to enhance the quality and effectiveness of health care by fostering excellence and professionalism in the practice of medicine.

In addition to practicing and teaching internal medicine, Ludmerer studies the history of medicine and medical education.

Ludmerer first gained national attention in 1985 with his second book, *Learning to Heal: The Development of American Medical*

Education.

His third book, *Time to Heal: American Medical Education From the Turn of the Century to the Era of Managed Care*, expands on the topic, further examining the history of American medical education. Both books were nominated for a Pulitzer Prize.

In 1997, the college also awarded Ludmerer the Nicholas E. Davies Memorial Scholar Award for his outstanding contributions to humanism in medicine and for his historical insight into today's medical education problems.

University Events

Healthy Living Series • Robotic Urologic Oncology

"University Events" lists a portion of the activities taking place June 17-July 21 at Washington University. Visit the Web for expanded calendars for the Hilltop Campus (calendar.wustl.edu) and the School of Medicine (medschool.wustl.edu/calendars.html).

Lectures

Friday, June 17

6:30 a.m.-5 p.m. Urology CME Course. "Hands-on Advanced Laparoscopic & Robotic Urologic Oncology." (Continues 6:30 a.m.-5 p.m. June 18.) Cost: \$995 for didactic session & live case surgeries, \$2,500 for didactic sessions, live case surgeries and hands-on labs. Eric P. Newman Education Center. To register: 362-6891.

8 a.m.-6 p.m. Mouse Models of Human Cancers Consortium. "Nervous System Tumor Symposium." (Continues 8 a.m.-noon June 18.) David H. Gutmann, Donald O. Schnuck Family Professor of Neurology, Eric P. Newman Education Center. 747-6338.

9:15 a.m. Pediatric Grand Rounds. "Dystonia in Childhood." Jonathan W. Mink, assoc. prof. of neurology, neurobiology and pediatrics, U. of Rochester. Clopton Aud., 4950 Children's Place. 454-6006.

Tuesday, June 21

8:30 a.m.-4:30 p.m. Center for the

Application of Information Technology Two-day Workshop. "Leading Change Across IT and the Enterprise." (Continues 8:30 a.m.-4:30 p.m. June 22.) Cost: \$1,195, reduced fees available for member organizations. CAIT, 5 N. Jackson Ave. 935-4444.

Cost: \$55. The Ritz-Carlton, 100 Carondelet Plaza. 362-6891.

Music

Sunday, July 10

7:30 p.m. Gateway Festival Orchestra Concert. Featuring music of Missouri composers. James Richards, conductor. Brookings Quadrangle. 935-4841.

Sunday, July 17

7:30 p.m. Gateway Festival Orchestra Concert. Featuring all French music. James Richards, conductor. Brookings Quadrangle. 935-4841.

And more...

Wednesday, June 22

Noon. Wellness Connection "Healthy Living Series" Walk. Hosted by WU Walks. Meet in front of Graham Chapel. 935-5990.

Wednesday, June 29

Noon. Wellness Connection "Healthy Living Series" Walk. Hosted by WU Walks. Meet in front of Graham Chapel. 935-5990.

Friday, June 24

9:15 a.m. Pediatric Grand Rounds. "Resident Awards Ceremony and Graduating PL-3 Case Presentations." Staci Young, Sarah Garwood and Josh Madden. Clopton Aud., 4950 Children's Place. 454-6006.

Saturday, June 25

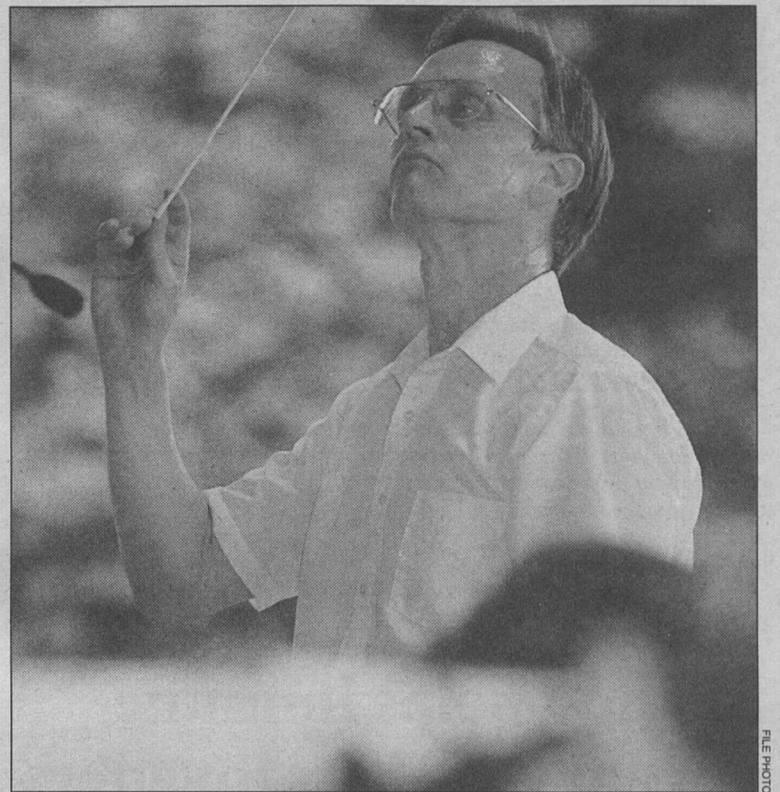
7:30 a.m.-noon. Urological Surgery CME Course. "8th Annual Highlights of the American Urological Association 2005 National Meeting." Cost: \$35. Eric P. Newman Education Center. To register: 362-6891.

Wednesday, June 29

7:30-11:30 a.m. Center for the Application of Information Technology Course. "Secure Applications: Introducing Security From the Beginning." One of eight half-day sessions. Cost: \$2,280, reduced fees available for member organizations. Whitaker Hall. 935-4444.

Saturday, July 9

7:45 a.m.-4 p.m. Oncology CME Course. "ASCO 2005 Presentations Review."



The Gateway Festival Orchestra is conducted by James Richards, professor of orchestral studies at the University of Missouri-St. Louis. The orchestra will launch its 42nd season of free summer concerts with "Midwest Musical Masters" at 7:30 p.m. July 10 in Brookings Quadrangle. Subsequent concerts will be held July 17, 24 and 31.

Gateway Festival Orchestra begins summer series July 10

BY LIAM OTTEN

The Gateway Festival Orchestra will launch its 42nd season of free summer concerts with "Midwest Musical Masters," highlighting composers and young artists from Missouri and Illinois, at 7:30 p.m. July 10 in Brookings Quadrangle.

Subsequent concerts will take place at 7:30 p.m. July 17, 24 and 31. Attendees are encouraged to bring lawn seating.

The orchestra is conducted by James Richards, professor of orchestral studies at the University of Missouri-St. Louis.

"Washington University is pleased to provide a relaxing, pleasant atmosphere for families to picnic and listen to classical music," said Sue Taylor, Ph.D., concert coordinator for the Department of Music in Arts & Sciences, which co-sponsors the series.

"Whereas the concert hall is generally not a suitable environment for young children, the Gateway Orchestra encourages parents to take advantage of this opportunity for their little ones to hear live music in comfortable surroundings."

"Midwest Musical Masters" will open with *Three Bentons*, by John Cheatham, professor of music theory and composition at the University of Missouri. Commissioned by the Jefferson City High School Orchestra, the piece debuted in 2004 and is inspired by the work of Missouri painter Thomas Hart Benton.

The program will continue with *Molto Klezmoto* by Ted Juch, a student at Marquette High School. *Molto Klezmoto* was recently named runner-up in the Merle J. Isaac Composition Contest, an international competition sponsored by the American String Teachers Association and the National School Orchestra Association.

In addition, violinist Clayton Penrose-Whitmore, a student at Franklin Middle School in Springfield, Ill., will be soloist for Charles-Auguste de Bériot's *Scene de Ballet*.

Keith Miller, a graduate of Hazelwood East High School now attending the University of Missouri-St. Louis, will appear as soloist in Giovanni Bottesini's *Concerto No. 2 for Bass*.

Hornist Emily Wozniak, a recent graduate of Webster Groves High School who will enter the University of Rochester's Eastman School of Music this fall, will be soloist for Richard Strauss' *Concerto for Horn, No. 1*.

The concert series will continue July 17 with "The French Connection," an all-French program that will include César Franck's *Symphony in D Minor* as well as a set of popular songs featuring local singer Elsie Parker.

On July 24, the orchestra will present "Russian Enchantment," featuring music by Mikhail Glinka, Alexander Borodin, Anatol Liadov and Alexander Glazunov, as well as Peter Tchaikovsky's *Romeo and Juliet Fantasy Overture*.

The series will conclude July 31 with "Classic to Romantic," featuring works by Viennese composers. Highlights include Ludwig van Beethoven's *Overture to Egmont*; Wolfgang Amadeus Mozart's overture to *The Impresario* and *Flute Concerto No. 1*, featuring Jan Scott, the orchestra's principal flutist; and Franz Schubert's *Symphony No. 4 in C Minor* ("Tragic").

Gateway Festival Orchestra

The Gateway Festival Orchestra was established in 1964 by conductor William Schatzkammer, professor emeritus in piano in the Department of Music, and other local musicians, in part to provide summer employment to members of the Saint Louis Symphony Orchestra.

Gateway was the first integrated professional orchestra in the St. Louis area and its formation ultimately led to the merger of the Black Musicians' Association with the Musicians' Association of St. Louis (now Local 2-197 of the American Federation of Musicians).

The group originally performed on the downtown riverfront but relocated to Washington University in 1970.

The summer concert series is sponsored by the Arts & Education Council, the Missouri Arts Council and The Regional Arts Commission of Saint Louis.

For more information, call 935-4841.

Florence art-history semester abroad program set to be launched this fall

BY LIAM OTTEN

The College of Arts & Sciences and the School of Art will launch an art-history semester abroad program to Florence, Italy, this fall.

Students will take six credits of art history, six credits of Italian language and three credits of art restoration.

The program builds upon two existing School of Art studios in Florence: a summer program and a sophomore spring studio. As with those programs, classes are taught largely by WUSTL faculty and are held in the School of Art's Florence facility, with frequent trips to local museums and churches.

William Wallace, Ph.D., the Barbara Murphy Bryant Distinguished Professor of Art History and chair of the Department of Art History and Archaeology in Arts & Sciences, will teach both

art history courses: an introduction to the Italian Renaissance and a seminar on Michelangelo.

"This is an incredible opportunity for students to study in the heart of the city that gave birth to the Italian Renaissance," said Wallace, an internationally recognized expert on Michelangelo and his contemporaries.

"I can't imagine anything more exciting."

The restoration course will be taught by Bettina Schindler, a Florence-based art restorer who works with several local museums. Italian classes are coordinated through the Centro Fiorenza, a local language school.

Katerina Papageorgio, assistant dean and director of overseas programs in School of Art, noted that enrollment, though limited to 20 students, is open to all junior and senior students in Arts & Sciences who have completed at least one semester of "Introduc-

tion to Western Art" or equivalent, and to sophomore School of Art students.

Applicants must have a grade-point average of 3.0 or better and at least one semester of introductory Italian. Applicants are also required to take a one-credit seminar covering such topics as passports, visas, Italian culture and customs, money issues, health care and local travel.

Costs — tuition, housing, food and supplies — are about the same as study in St. Louis, plus travel expenses. Students who are receiving financial aid will be eligible for aid based on the projected costs of this program.

Applicants should contact the office of Overseas Programs at 935-5958 or overseas@wustl.edu. School of Art and non-University applicants should contact Papageorgio at 935-4643 or cpapageo@art.wustl.edu.

Employment

Go online to hr.wustl.edu (Hilltop Campus) or medicine.wustl.edu/wumshr (Medical Campus) to obtain complete job descriptions.

Hilltop Campus

For the most current listing of Hilltop Campus position openings and the Hilltop Campus application process, go online to hr.wustl.edu. For more information, call 935-5906 to reach the Human Resources Employment Office at West Campus.

Clinical Study Coord. 050048

Reference Librarian/Instruction & Outreach Coord. 050098

Asst. Dir. for Disability Resources 050099

Software Developer 050104

Coord. of Capital Projects 050186

Editorial Asst. 050218

Head Women's Tennis Coach 050219

Admissions Officer 050223

Curator 050226

Business Manager 050230

Field Research Coord. 050233

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Assoc. Director 050237

Administrative Asst. 050240

Student Billing Financial Coord. 050243

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Director of Capital Projects 050246

Exec. Dir. Regional Development Progs 050248

Department Secretary 050249

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Deputized Police Officer 050251

Financial Reporting Accountant/Analyst 050252

Security Officer 050255

Asst. Registrar 050256

Event Coord. 050257

Coord. of the Writing Program 050258

System Programmer I/System Administrator 050259

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Circulation Desk/Weekend Manager 050262

Reference Asst. (Evening) 050263

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Lab Technician III 050265

Health Services Physician 050266

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Medical Campus

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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.

Research Technician II 051320

Executive Secretary 051329

Clerk I 051338

Clinical Nurse Coord. 051353

Payroll Associate 051356

Research Technician II 051357

Database Analyst 051358

Research Patient Asst. 051359

Patient Billing Services Rep. II 051361

Cast Technician 051362

Human Resource Specialist 051363

Manager, Administrative Services 051365

Secretary I 051367

Secretary I 051368

Receiving Clerk 051370

Research Technician II 051374

Sr. Research Technician 051379

Health Services Physician 059999

Staff Day features sports, friendship and fun

Staff Day is a time for University staff members to let their hair down, recognize their peers — and perhaps win a few prizes along the way.

Staff Day May 23 featured a variety of events, including a drawing for various goodies.

The winners of the drawings were Suzette Williams, financial planning (airline tickets); Ralph Thaman, facilities (Dell Pocket DJ); Dan Szatkowski, environmental health & safety (Kodak digital camera);

Pat Hallquist, accounting services (brunch for two at The Ritz Carlton); Gina Breckner, accounting services (two tickets to an OVATIONS! event at Edison Theatre); Scott Weiskopf, admissions (lunch for eight at the Charles F. Knight Executive Education Center);

Ginger Willenborg, University billing (lunch for eight at the Knight Center); Tracie Burns, treasury services (briefcase and portfolio); Lisa Lawrence, social work (Cardinals tickets); Sandra Compton, office of General Counsel (Cardinals tickets);

Carol Antoniewicz, Olin Library (Cardinals tickets); Ray Barber, facilities (Cardinals tickets); Barb Niebruegge, general counsel's office (a night at Chase Park Plaza); Margo Mueller, earth & planetary sciences in Arts &

Sciences (dinner for two at Whittemore House);

Chris Doherty, accounts payable (\$45 gift certificate for Bass Pro Shop); Kathy Daniel, international & area studies in Arts & Sciences (\$50 gift certificate for Bass Pro Shop); Chris Bayless, telephone services (\$30 gift certificate for Knight Center take-home menu); Ron Bippen, information & communication (\$30 gift certificate for Knight Center take-home menu);

Eileen Hagan, public affairs (one-year membership to McWilliams Fitness Center); Chuck Wuensch, accounting services (one-year membership to McWilliams Fitness Center); and James Conder, earth & planetary sciences (gym bag with \$20 coupon for South 40 Fitness Center, T-shirts, towels and water bottle).

Tourney winners

Winning sports trophies were the Spin Docs of public affairs (softball); Dannette Hutton and Sarah Nelson (golf, women's team); Terri Nappier and Joe Angeles (golf, co-ed team); Paul Landgraf and Neil Schaeffer (golf, men's team); student financial services (volleyball) and Rachel Stulce and Bill Reitz (washers).

The food drive collected 265 pounds of food, which provides 177 meals to needy families.



The washers tournament, a new event for Staff Day, proved to be a popular activity, with dozens of teams participating. The duo of Rachel Stulce and Bill Reitz took the first-place trophy.

Employees recognized for service

On Staff Day, several University employees were recognized for various years of service.

The following people were recognized for 10 years of service:

Midge Bailey, Elaine Beffa, Janet Bolin, Bob Boston, Martha Bradley, Thomas Brounck, Alison Carrick, Cameron Carter, Bruce Carvell, Linda Cohn, Sandy Cooper, Karen Corley, Warren Davis, Pam Dempsey, Gene Fantasia, Suzanne Fragale, Gina Frey, Daryl Giblin, Lexie Goldsand, Sally Haywood, David Heyse,

Theresa Howard, Justin Hoyt, Rachael Jones, Rick Jouett, Barbara Klein-Dressler, Peter Kline, Marsha Koch, Connie Kraus, Jennifer Kunza, Tom Lauman, Maria Littrell, Angie Mahon, Kenneth Marks, Glenn Meyer, Tesha Myers, Dorothy Negri, Claire Patterson, Carl Pierce, Ann Prenatt, Don Rempel, Gloria Richman,

Phyllis Rogier, Jim Roth, Ray Russell, Mary Settlemyer, Brad Short, Joanne Spitz, Cindy Swyers, Jill Totten, Carl Vandelloo, Virginia Vendt, Ilan Vidavsky, Tommy Watkins Jr., Mary Whiteley, Steven Wiese, Barbara Winston, Virginia Withers.

The following people were recognized for 15 years of service:

Shirley Baker, Richard Bartholome Jr., Dorie Bertram, Dana Braun, Gene Bulfin Jr., Tony Chang, Mary Corcoran, Peter Dore, Valerie Gaston, Larry Guerdan, Paul Hahn, Charles Harris Jr., Theresa Kenyon, Hatsephi Kushma, Larry Kuykendall, Kathi Law, Judy Leicht, Lynn McCloskey, William McIntosh,

Christine Merritt, Margo Mueller, Louise Neeley, Judy O'Leary, Jean Ouellette, Gail Peters, Nancy Pliske, Mindy Price, Tina Raynes, Linda Rothe, Jacqueline Slack, Anthony Spragins, Angie Stevens, Dan Szatkowski, Pat Thomann, Melinda Turner, Steve Valli, Laurie Wilson, Christee Zimmermann.

The following people were recognized for 20 years of

White award goes to Clay

Also on Staff Day, Rudolph Clay of Olin Library was presented the Gloria W. White Distinguished Service Award in a ceremony in Edison Theatre. An article about Clay will be featured in the next issue of the Record.

service:

James Ames, Peggy Bischof, Catherine Cummings, Sandra Devereaux, Dianne Duncan, Karen Edwards, Tim Flynn, Jerry Harmon, Sue Horstman, Delores Kennedy, Bettie King, Mark Lavi, Sharon Matlock,

Patricia McCosky, Frances Niemeyer-Murphy, Dave Nolan, Sheryl Peltz, John Perkins, Steven Picker, John Pingree Jr., Jim Severine, Chas Shelton, Elizabeth Skaggs, Doris Wellman, Stuart Yoak.

The following people were recognized for 26 years of service:

Tony Abaffe, Tom Biehl, Joan Greenberg, Henry Hofmann, Barbara Luszczynska, Mike Powell, Allen Rueter, David Schilling, Beth Schnettler, Reginald Whitaker, Bobbe Winters.

The following people were recognized for 30 years of service:

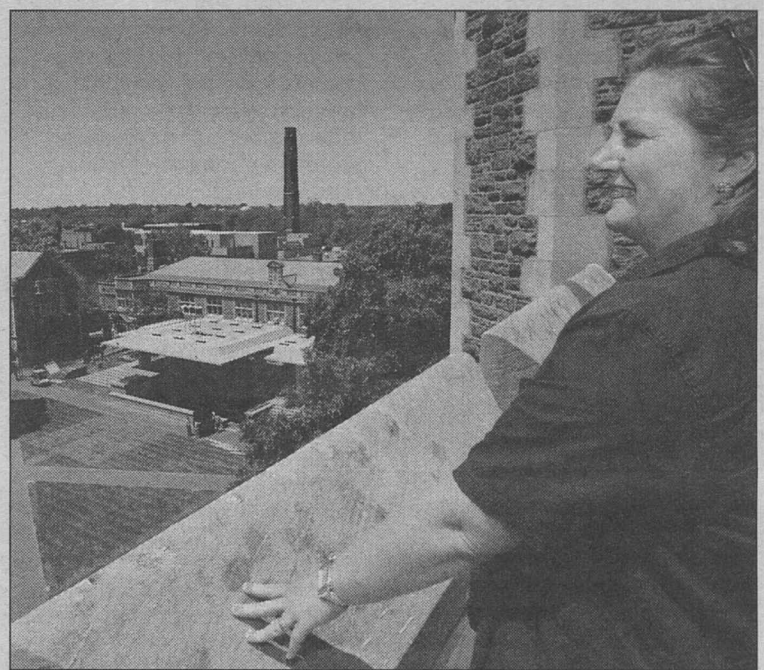
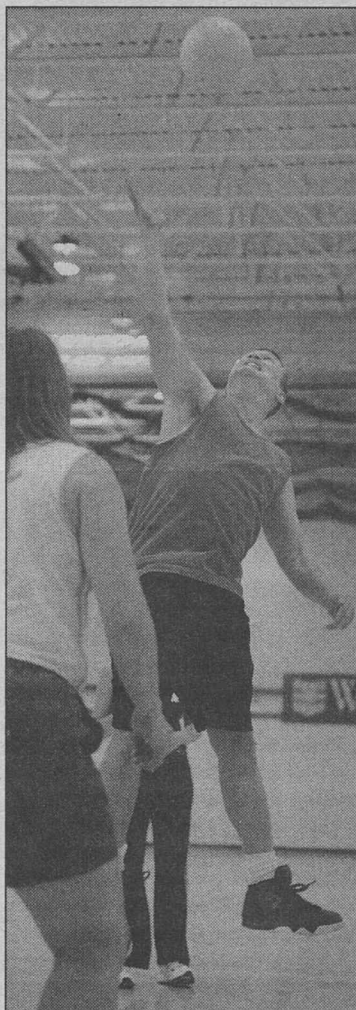
Bea Adams, Theron Baird, Paula Canoy, Mickey Clarke, Mark Conway, Carolyn Craig, Erle Craig, Charlotte Ellis, Jonathan Elson, Cynthia Haynes-Brown, Gloria Lucy, Jim McLeod, Linda Sanford, Mary Vander Pluym, Shar Weber.

The following people were recognized for 35 years of service:

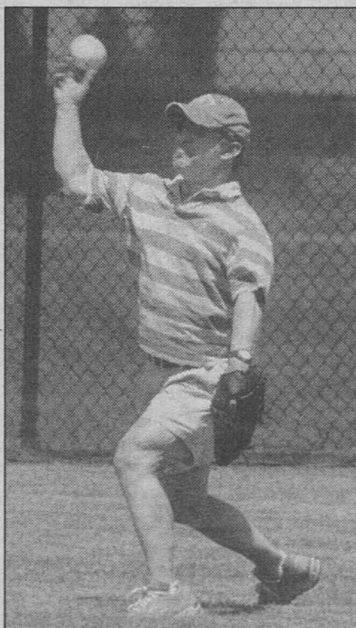
Zelina Anderson, Judith Gerber, Rosemary Hahn, Julia Hamilton, Jacqueline Henderson, Barbara Hofmann, Carole Wallace.

The following people were recognized for 40 years of service:

Barbara Johnson, Bill Orrick.



Among the myriad Staff Day events (clockwise, from above): a volleyball tournament in the Athletic Complex; Jim Burmeister's campus tour, which includes a visit to the roof of Brookings Hall; and drawings for prizes in Bowles Plaza. At the softball tourney, Chancellor Mark S. Wrighton hams it up as he playfully "argues" a call, and George Warren Brown School of Social Work Dean Eddie Lawlor guns the ball in from the outfield.



Photos by Mary Butkus and Kevin Lowder

Pakrasi

Group will investigate mysteries in biology

— from Page 1

with potential applications that include groundwater remediation, carbon sequestration and energy generation.

Pakrasi is leading a Grand Challenge Project in membrane biology that will use a systems approach to understand the network of genes and proteins that govern the structure and function of membranes and their components responsible for photosynthesis and nitrogen fixation in cyanobacteria (blue-green algae).

His co-principal investigator is Bijoy K. Ghosh, Ph.D., professor of electrical and systems engineering. This project will also involve the Donald Danforth Plant Science Center, Purdue University, Saint Louis University and the Institute of Plant Physiology and Ecology in Shanghai, China.

"This is a fabulous opportunity for the Department of Biology, Arts & Sciences and for the visibility of Washington University to be the center for such a project," said Ralph S. Quatrano, Ph.D., the Spencer T. Olin Professor and biology department chair.

"Dr. Pakrasi has assembled a great team with broad expertise focused on a specific problem that will have far-reaching effects and applications in the future. Our department is very proud of his leadership and scientific capabilities."

A systems approach integrates all temporal information into a predictive, dynamic model to understand the function of a cell and the cellular membranes. Cyanobacteria make significant contributions to harvesting solar energy, planetary carbon sequestration, metal acquisition and hydrogen production in marine and freshwater ecosystems.

Specifically, Pakrasi's project will focus on the amazing cyanobacterium *Cyanothece*, a one-celled marine organism, the only bacteria with a circadian rhythm, or biological clock. In particular, *Cyanothece* has the uncanny ability to fix oxygen through photosynthesis during the day while fixing nitrogen through the night.

Incredibly, even though the organism has a circadian rhythm, its cells grow and divide in 10-14 hours.

"This is a mystery in biology," Pakrasi said. "Why does an organism do this and yet have a circadian rhythm? It must be that it gains something. We intend to find out."

To unravel the mystery, Pakrasi and his collaborators will



Pakrasi

be growing *Cyanothece* cells in photobioreactors, testing cells every hour to try to understand its light cycle at different times of the day. With the combined diverse expertise of 14 different laboratories, the scientists and engineers will examine numerous biological aspects of the organism.

The results of this project will provide the first comprehensive systems-level understanding of how environmental conditions influence key carbon fixation processes at the gene-protein-organism level.

This topic of study was selected because it addresses critical Energy Department science needs, provides model microorganisms to apply high throughput biology and computational modeling, and because it takes advantage of EMSL's experimental and computational capabilities.

EMSL's unique and broad-ranging experimental and computational facilities are central to

the approach for the projects.

"EMSL is already one of Department of Energy's most successful national user facilities," said Raymond L. Orbach, director of the Energy Department's Office of Science, "so it is a fitting place to attempt such ambitious grand challenges, where we can pair large groups of our most talented scientists with our most sophisticated analytical tools to look at very specific and vexing scientific problems."

"We are hopeful that this approach will become a model for collaborative research at EMSL and other DOE facilities."

EMSL Director Allison Campbell said, "We are bringing together international expertise to advance an area of science in ways that haven't been possible before. A combination of world-class minds, methods and capabilities uniquely positions PNNL and EMSL to deliver answers to the grand challenge questions these teams are addressing."

The William R. Wiley Environmental Molecular Sciences Laboratory is located on the PNNL campus. Since its inception in 1997, the 200,000-square-foot facility has played host to more than 5,500 visiting scientists, professors and other individuals who requested use of the facility's resources through a peer-review proposal process.

These individuals — commonly referred to as "users" — come to EMSL from academia, other research and development laboratories and industry.

PNNL is an Energy Department Office of Science facility in Richland, Wash., that solves complex problems in energy, national security, the environment and life sciences by advancing the understanding of physics, chemistry, biology and computation.

PNNL employs more than 4,000 people, has a \$650 million annual budget and has been managed by Ohio-based Battelle since the lab's inception in 1965.

Gephardt

Chancellor Wrighton also addressed new grads

— from Page 1

"In fact, I can't improve upon John Kennedy's straightforward call to my generation to accept the responsibilities of citizenship, along with its advantages," Gephardt said, before turning his attention to the Richard A. Gephardt Institute for Public Service created in his honor at WUSTL in February.

"This institute will attempt to make JFK's challenge real for students here at Washington University," he said. "In addition, I hope this institute will offer baby-boomer retirees the opportunity to help spread freedom, democracy and capitalism across the globe so we can better prevent the creation of terrorists."

"Kennedy's challenge was historic, but I want us to make history here at Washington University by getting hundreds of Americans to really accept that challenge."

While politics, the economy and technology have made dramatic changes since the 1960s, Gephardt went on to say that some things have remained constant, such as simple rules to live your life by.

"First, treat other people the way you would like to be treated," he said. "It's no accident that every religion in our world revolves, at least in part, around some vision of the Golden Rule. My mother taught it to me every day. It's been the most important rule in my life."

"Every ultimately successful person — every person who makes something of their life, every ultimately successful leader — I have ever met in business, politics or elsewhere practices, or tries to practice, the Golden Rule every day in his or her life."

"Second, value human relationships, above all else. No one is poorer or more lonely than the people who lack them. Our lives are short, sometimes shorter than we want, and the most rewarding, enriching aspects of our lives are the human relationships we have to enjoy."

"So love your families, hold them close, for they are the greatest source of security and strength you will ever know."

"Third, live your life with enthusiasm and curiosity, all born of the great incomparable joy of being alive," he said, eliciting a shout of approval from a graduate, to which Gephardt responded: "I'm glad somebody already gets it!"

He continued his speech by telling the graduates, "Find something you really enjoy doing. If you hate your job, go find a new one. Believe me, 40 years go by in a flash. And you must not settle for a life that will only produce regrets and recriminations."

Gephardt then recounted a story from the movie *Awakenings*, which is about a man who awakes from a 40-year coma. A few weeks after awakening, he calls his doctor at 3 a.m. and asks to meet him at his office. The doctor rushes to his office expecting to find that his patient had fallen ill, only to find the man beaming with "the love of life again after reading a newspaper."

"He says: 'Look at all of these stories of people in trouble — don't they understand? They're alive — don't they understand how lucky they are?'"

"None of us do," Gephardt continued. "Not until our lives, or the lives of our loved ones, are threatened do we begin to see what an opportunity life is. ..."

"It is a paradox: To enjoy life to its fullest, to live without regrets, requires a discipline, a continuing reminder to ourselves of how good life really is."

"So work hard and play hard. Open your eyes to the beauty around you. Take time to reflect and think, go to concerts, prepare

good foods, read books, look at art, notice nature around you.

"Finally, try to have courage and be willing to take risks. All through your life challenges will pop up. New jobs, new opportunities to serve others, new ventures to get into. Often these decisions will involve risks, often you will be afraid to take the risk. Sometimes your caution will be right. No one should take risks foolishly."

"But I think our fears too often overwhelm our courage to step out and try to change what is wrong and should be changed. You have to keep your minds open, you have to welcome change, embrace new things, and you must never accept what is — you must work for what can be."

In closing, Gephardt said, "There truly is an excitement and an art to living, and most of you — I hope all of you — will appreciate the power and dignity that come from being on your own and making a life for yourselves."

Chancellor Mark S. Wrighton also addressed the newly minted graduates upon conferral of their degrees.

"The future will hold many challenges, some of which we already know," Wrighton said. "New challenges will emerge as the future unfolds."

"Who in the Class of 1955 would have realized that within two years after graduation the Soviet Union would be first to place a satellite in Earth orbit? The Sputnik surprise unleashed a huge national investment in science and engineering education and research, and marked the beginning of the 'space race' culminating in a successful U.S. manned mission to the moon."

"For those graduating today, many of whom started in late August of 2001, who could have envisioned the terrorist attacks of September 11, 2001, resulting in a 'war on terror' and the enormous investment of human and financial resources to win it?"

Wrighton also alluded to the impact that one person can play in changing the world.

"On April 18, 1955, Albert Einstein died — 50 years from the time he published a series of transforming papers in 1905. ... In 50 years of adult life, from 1905 until 1955, Einstein's work became widely appreciated as a monumental contribution to knowledge."

"Every scientist has the aspiration to make Einstein-like contributions, every writer the hope to be a Shakespeare, every artist the hope to be a Van Gogh, every composer a Mozart, or every architect a Frank Lloyd Wright."

"We may yet have another Einstein in the Class of 1955; hopefully we have many in the Class of 2005! At graduation, we never really know what the future holds."

"We have an exciting and bright future as a consequence of having great students, faculty, alumni and staff. Our faculty and deans have contributed to creating an environment that encourages creative achievement and collaboration."

"As new graduates, your individual contributions may have Einstein-like enduring impact through your creative work in art, music, writing, science or some other area."

"Each of you will positively affect others as partners, parents, friends, teachers, physicians, lawyers, social workers, architects, business leaders or community members. All of you have earned the opportunity to be great contributors — individually, collectively, and in coordinated teams."

"Whether you help a child or mobilize a nation, you are all destined to be leaders."

"On behalf of the entire Washington University faculty and staff, I wish you continued success as our newest alumni. Congratulations and thank you for your important contributions to Washington University and in your life to come."

Alcohol

Responses to ethanol are very different

— from Page 1

Fetal alcohol exposure is regarded as the leading cause of mental and physical birth defects and is the most common preventable cause of birth defects in the United States. During the first week after birth, the brains of mice are in a stage of development similar to that of human fetuses during the last trimester of pregnancy.

The research team found that in the newborn mice, the lack of AC1 and AC8 increased neuronal sensitivity to ethanol's destructive effects. Newborn mice missing either of the AC enzymes and that were given ethanol had much

greater neuronal damage, even at low ethanol doses, than normal mice.

"If you look at children who were exposed to alcohol during gestation, you'll see that not all develop fetal alcohol syndrome," Maas said. "We think the levels of AC1 and AC8 enzymes may predispose a fetus to being more or less sensitive to alcohol consumption by the mother."

Theorizing that the enzymes modulating ethanol's effect during brain development might be the same ones involved in ethanol actions later in life, the researchers looked at the effects of the same genetic inactivations in adult mice.

In adult mice, ethanol does not damage neurons in the brain, but it does have a marked sedative effect. The studies showed that adult mice lacking AC1 slept 1.5-2 times longer for a given ethanol dose than normal mice.

The researchers did not see that effect in mice lacking AC8.

Previous studies have shown that the more sensitive an animal is to sedation by ethanol, the less ethanol it seeks to drink. Mice lacking AC8, but not those lacking AC1, displayed significantly lower preference for ethanol and cut their voluntary ethanol consumption compared to normal mice.

In contrast, mice lacking the enzymes suffered the same amount of ataxia, or loss of muscle coordination, after ethanol consumption as normal mice.

"Our results confirm that ethanol affects various parts of the adult brain via different mechanisms," Muglia said.

"Ataxia deficits are thought to be mediated primarily by the cerebellum. Because ataxia after ethanol consumption was the same in both altered and normal mice, AC1 and AC8 probably are not critical to ethanol's effects in the cerebellum."

"But the effects on sedation and ethanol preference suggest that each AC gene has a role in influencing ethanol's effects in the cerebral cortex."

The studies demonstrated the response to ethanol is very different in newborn compared to adult mice.

"During development, the brain makes more neurons than it needs and weeds out unnecessary neurons by killing the inactive ones," Muglia said. "In adults, however, the brain wants to protect all its neurons."

"By blocking neuronal receptors, ethanol exaggerates the normal destruction of neurons in the developing brain, but it only temporarily turns off neurons in the adult brain. AC1 and AC8 help mediate these processes."

local civic associations and neighborhood organizations, be a resource for the University's neighbors and coordinate the activities of the Washington University Neighbors' Council.

Previously, Merrifield served as the director of M.B.A. student services in the Olin School of Business.

Before her work at the Olin School, Merrifield held various positions in community relations and program administration at a number of universities.

Merrifield earned a bachelor's degree from Illinois Wesleyan University and a master's in higher education administration from the University of Texas.

Merrifield

Served as director of M.B.A. student services

— from Page 1

Merrifield said.

"Like many other top-tier institutions, Washington University has made some steady progress over the years in this area. With additional attention and effort, we should be able to do even more to attract and retain great individuals from diverse backgrounds to our community."

In 2000, Merrifield was named director of community relations, serving as the University's primary liaison to

Notables

Byrnes wins prestigious Reid Prize

By TONY FITZPATRICK

Christopher I. Byrnes, Ph.D., the Edward H. and Florence G. Skinner Professor in Systems Science and Mathematics and dean of the School of Engineering & Applied Science, has been selected to receive the 2005 W.T. and Idalia Reid Prize.

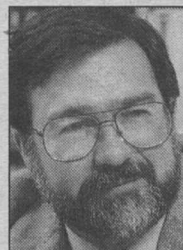
The award, one of the most prestigious in the field of differential equations and control theory, will be presented to Byrnes at the 2005 Society for Industrial and Applied Mathematics Annual Meeting July 11-15 in New Orleans.

The Reid Prize was established in 1993 to recognize outstanding research in, or other contributions to, the broadly defined areas of differential equations and control theory. The annual prize is awarded either for a single notable achievement or for a collection of such achievements.

Byrnes is receiving the Reid Prize for his fundamental contributions in the areas of pole-placement by output feedback, output regulation for nonlinear systems, and spectral estimation and robust control. He will receive the award and will give the Reid Prize Lecture July 13.

Byrnes has an international reputation in his field — systems science and control. Among his research interests are feedback design in automatic control, nonlinear dynamics and control, and estimation and filtering.

He has applied his research over two decades in aerospace,



Byrnes

Byrnes is receiving the Reid Prize for his fundamental contributions in the areas of pole-placement by output feedback, output regulation for nonlinear systems, and spectral estimation and robust control.

electrical power systems, signal processing and speech synthesis, among other areas.

Byrnes has served as the engineering school dean since 1991 and oversees approximately 1,100 undergraduate students, 750 graduate students and 85 faculty members. He joined the University faculty as professor of systems and control and chair of the Department of Systems Science and Mathematics in 1989.

In 2001, Byrnes was installed as a Foreign Member of the Royal Swedish Academy of Engineering Sciences.

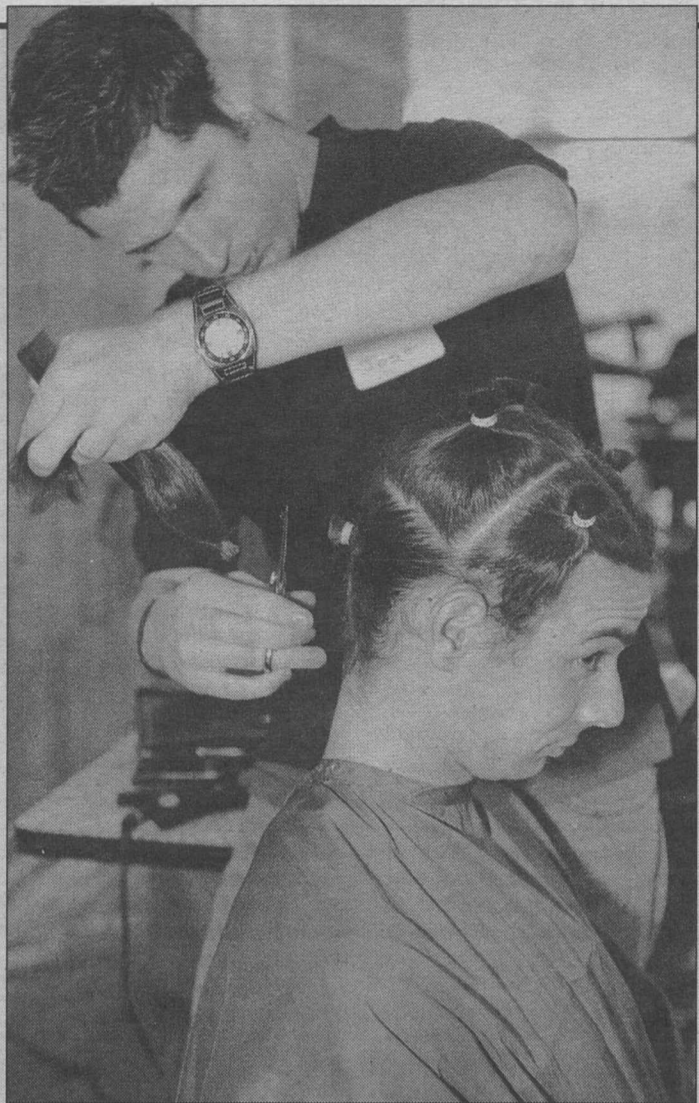
Byrnes has held numerous visiting appointments at worldwide institutions. In 1998, he was honored with an honorary doctor of technology degree from the Swedish Royal Institute of Technology, one of the highest engineering

honors. He is a fellow of the Institute of Electrical and Electronics Engineers (IEEE) and has won three best-paper awards, the most recent from the IEEE in December 2003.

From 1986-1990, he was adjunct professor at the Royal Institute, and in 1985 and 1991 he was visiting professor at the Kungliga Tekniska Hogskolan in Stockholm, Sweden.

Notables policy

To submit Notables for publication in the *Record*, e-mail items to Andy Clendennen at andyc@wustl.edu or fax to 935-4259.



Hair today, gone tomorrow Junior Dan Kaplan gets nearly a foot of his hair cut off by Josh Nidrols of the American Image Salon during the recent Locks of Love event in Mallinckrodt Student Center. Kaplan had let his hair grow for almost a year. Locks of Love is a national nonprofit organization that provides quality real-hair wigs for children afflicted with medical hair loss. The event was sponsored by the St. Louis Hillel at Washington University.

Hoffner, Underwood are 'administrators of the year'

By ANDY CLENDENNEN

The competition was tight — so tight, in fact, that Student Union (SU) voted to award two Administrator of the Year awards instead of its traditional one.

Steve Hoffner, former assistant vice chancellor for students and director of operations, and now executive vice president of Quadrangle Housing Co., and Lisa Underwood, manager of parking and transportation services, were selected.

"(Student Union's) Executive Council felt so strongly about both of these administrators that we decided to give them both an award," said SU Vice President Pam Bookbinder.

Hoffner and Underwood were recognized for going above and beyond the call of their normal administrative duties, especially when the students are involved.

"We chose to give the award to Steve Hoffner because of his dedication to changing things on cam-

pus for the better, and for his consistent hard work and dedication with Student Union," Bookbinder said. "Whenever a Student Union representative needs help with something, we always seem to point them to Steve because he is so helpful.

"(Steve) was truly concerned about what students thought about the food service on campus and always was looking for new ideas. Now that he is working on Quadrangle Properties, the members of Student Union will sorely miss him. He is a true example what an administrator should be, and we were honored and pleased to give him this award."

Said Hoffner, "I was very surprised and honored that the Student Union leaders recognized my efforts to improve the quality of our services for all students, and I appreciate their efforts in working with us to bring student needs and interests to the table for discussion."

Underwood has been involved

with students in a variety of ways, including parking and the shuttle service.

"We chose to give an award to Lisa because of her dedication to improve things on campus, her open mind and willingness to listen to the students," Bookbinder said. "An example we gave when we presented her with the award was when we told her about complaints we had heard from students about the shuttle routes — she came to an 8 a.m. Executive Council meeting on a Monday with maps showing potential changes.

"She then came to that Wednesday's (SU) Senate meeting at 9 p.m. and spoke to the senators about the new plans.

"The amazing part was that she had lost her voice, but she was still willing to come to the meeting to share her new plans. She has consistently worked with and been a friend of Student Union, and we were proud to give her this award."

Said Underwood, "I was surprised to have received this award, and it is a great honor, specifically because there are times when we have had to make decisions that we thought would not be that popular with the students. We feel very fortunate that the students are interested and willing to work with us to improve the services available to them, we all benefit from that partnership!"

Bookbinder agreed. "Both Lisa and Steve shine in the positions on campus because they are so willing to treat students as partners and colleagues," she said. "They respond to phone calls and e-mails in a fast manner and are willing to come in at all hours to help a student."

Each year, Student Union gives out an administrator/staff person of the year award at its annual inauguration ceremony. Students and faculty members can submit award nominations.

Campus Authors

Rebecca Messbarger, Ph.D., associate professor of Italian in Arts & Sciences; and Paula Findlen, professor of Italian history at Stanford University

The Contest for Knowledge: Debates Over Women's Learning in Eighteenth-Century Italy (The Other Voice in Early Modern Europe)

(University of Chicago Press, May 2005)

At a time when women were generally excluded from scholarly discourse in the intellectual centers of Europe, four extraordinary women proved their parity as they lectured in prominent scientific and literary academies and published in respected journals.

During the Italian Enlightenment, Maria Gaetana Agnesi, Giuseppa Eleonora Barbapiccola, Diamante Medaglia Faini and Aretafila Savini de' Rossi were afforded unprecedented deference in academic debates and epitomized the increasing ability of women to influence public discourse.

— From the book jacket



The Contest for Knowledge reveals how these women used the methods and themes of their male counterparts to add their voices to the vigorous and prolific debate over the education of women during the 18th century.

In the texts gathered in the book, the women discuss the issues they thought most urgent for the equality of women in Italian society specifically, and in European culture more broadly. Their thoughts on this important subject reveal how crucial the 18th century was in the long history of debates about women in the academy.

"Paula and I decided to write the book in order to make available to scholars in and outside of 18th-century studies highly influential works by and about women from the

Italian Enlightenment that have remained in manuscript form," Messbarger said.

"In my long introduction, I aim to provide a cultural and historical context for the unprecedented institutional authority achieved by these women, unique in Europe at the time, and through our translations of these women's defenses of the education of their sex, Paula and I sought to give vent to these crucial 'other voices' of the Italian Settecento.

"We hope that our volume might benefit scholars in the field and teachers of the history of women and 18th-century studies. None of the texts included in this volume have been published since the 18th century, so this is a wholly new contribution to the field."

— Neil Schoenherr

Campus Watch

The following incidents were reported to University Police **May 17-June 15**. 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.

May 23

8:33 a.m. — A construction worker reported that between 3:30 p.m. May 20 and 7 a.m. May 23, two pieces of PVC pipe were stolen from the construction site on the South 40. Total loss is estimated at \$300.

June 1

9:44 a.m. — A mini digital video camcorder was taken from a Bixby Hall office sometime between 9 p.m. May 31 and 9:30 a.m. June 1. The office was secured on May 31 and

found standing open June 1. No forced entry was observed. Total loss is estimated at \$340.

June 11

11:02 a.m. — A video camera was reported stolen from Lopata Hall sometime between 9-10 a.m. Total loss is estimated at \$400.

Additionally, University Police responded to eight larcenies, six auto accidents, three parking violations and one report each of lost article, recovered property, property damage and suspicious person.

Washington People

Richard D. Wetzel, Ph.D., first came to St. Louis to attend Concordia Seminary. But when he arrived at the seminary, he wasn't dreaming of a small country church. He wanted to become a college professor.

He comes from an extended family that includes nine college professors, and almost all of them taught at Lutheran colleges. His relatives advised him that if he was going to be a college professor at a Lutheran college, he should become a minister. So, that's what he did, completing a master's degree in divinity in 1963.

But while he studied theology, he also took counseling courses. That started back in 1957 when he was at Concordia College in Fort Wayne, Ind. Now he's a professor of psychiatry and of neurology and neurological surgery, but during his college days, Wetzel also tutored students in Greek. He was the swimming coach, too. With interests in physical education, counseling and the classics, he did a lot of thinking about how he could contribute most.

"There had been too many bright people in the classics for me to make much of a contribution there, and I didn't think I would



Richard D. Wetzel, Ph.D. (left), professor of psychiatry and of neurology and neurological surgery, consults with psychiatry resident Jeff Vander Kooi, M.D., about a forensic case. Wetzel spends a lot of time evaluating people involved in civil and criminal litigation, including death penalty cases. As an expert for both the prosecution and defense, Wetzel explains that he doesn't support the death penalty because "the process is flawed by politics and financial matters."

By JIM DRYDEN

A lifesaving leader

From suicide prevention to divinity studies, neuropsychologist Richard D. Wetzel puts others first

add much to the world teaching P.E., so I decided psychology was the way to go," he says.

The road to his psychology degree was not a straight one. Not only did he attend the seminary first, but after graduation he also took a job teaching at Concordia Teachers College in River Forest, Ill. It turned out to be a brief detour on the way from the seminary to his doctorate, but it had a major impact on the rest of his life.

"I met my wife, Mickey, there," he says. "She was an assistant professor, and I was an instructor. So she outranked me then, and she still does."

Later, when Mickey was offered a position as dean of women at a college in New York, he decided it was time to make things more official, and the couple got married.

"I wouldn't say I proposed because there's a running joke in our family that the women ask the men," Wetzel chuckles. "If you write that I proposed because she was going to leave and go to New York, it would make her so happy she wouldn't be able to stand it, but I'll deny it."

Testing teamwork

The couple married in 1966 while he was working and studying in the Community Mental Health Research Training Program at Washington University. That pro-

gram later lost its funding, and when one of the professors moved across town to Saint Louis University, Wetzel followed him and finished his doctorate. He later returned to do postdoctoral work at Washington University, and he's never left.

For a time, he was the only psychologist in the Department of Psychiatry.

"For years I did all of the psychological testing and assessments because I was the only one who could do it," he says.

Beginning in 1992, with his wife working as his technician, Wetzel conducted all of the Wada assessments on epilepsy patients.

That test, named for the scientist who invented it, involves injecting a drug to cause one side of the brain to go to sleep, helping neuropsychologists like Wetzel determine where language and memory centers reside in the brain.

If those centers are not on the side involved with epileptic seizures, it's often possible to eliminate the seizures with surgery.

"The Wada tests take forever," Wetzel says. "They are very important but also very involved, and they normally would take three or four hours. When something didn't go right, we would have to fix it and add another hour."

Saving the suicidal

From his earliest days studying psychology, Wetzel also was interested in learning about and preventing suicide. His first peer-reviewed publication appeared in the *American Journal of Psychiatry* and involved a study of 55 people who called a suicide prevention hotline. The first author on that paper was George E. Murphy, M.D., professor emeritus of psychiatry and one of the pioneers in the study of suicide.

"It was clear from the start that Dick had an exceptional intellect," Murphy recalls. "He also has a marvelous sense of humor that he often turns upon himself. He's provided me with many ideas over the years, and he's been a delightful collaborator in following up those ideas."

Wetzel was the first person to manage the hotline at Suicide Prevention Inc. of St. Louis, assuming the position in 1967. He also helped launch "Call for Help"

across the river in Illinois. He interviewed callers to learn about who took advantage of hotline services — work that sometimes exacts an emotional toll.

"If you want to help people, sometimes you have to pay a price," Wetzel says, referring to some of the sleepless nights and the anxiety he's endured as a result of working with people at high risk for suicide.

"To save people from suicide, you sometimes have to experience somebody's suicide," he says. "I certainly don't like it when people kill themselves, but when you work to save people who are high risk, you have to understand some are going to die. The good news is you can help others live."

In almost 40 years of working with and studying people at risk for suicide, Wetzel has learned many things. For instance, some depressed people don't take their lives because they're worried about what would happen to their children. Others who are at risk may be saved by the holidays.

Wetzel says the facts involving suicide during the holidays contradict conventional wisdom.

"A lot of people think suicides go up at Christmastime when, in fact, they go down," he says. "The lowest day of the year for suicides is Dec. 23, and in both December and January there tend to be about 10 percent fewer suicides than in other months."

These days, a large chunk of Wetzel's time involves evaluating people involved in civil and criminal litigation, including accused criminals in death penalty cases. He has conducted evaluations and been an expert witness both for the prosecution and the defense, but he doesn't support the death penalty.

"I think the process is flawed by politics and financial matters," he says. "But whatever one thinks of the death penalty, the people forced to make the choice between life and death, the jurors or judge, deserve the benefit of the best possible, most thorough and objective clinical evaluation and explanation of that examination."

"Their responsibility is awesome, and they need all the help they can get. Then they can make their decision as well as it can be made."

Because different parts of the country have different standards for when to seek the death penalty, Wetzel says it often metes out unevenly. Of the 18,000-20,000 people arrested for murder each

year, only 60-80 are executed. He believes the advantage of the death penalty is that it occasionally helps prosecutors get guilty pleas from some defendants, but the disadvantage is that some people may be innocent.

Family focus

You might think a seminary graduate with a psychology degree, an interest in the death penalty and an expertise in neuropsychology and suicide risk is one of a kind.

But that wouldn't exactly be true. Wetzel has an identical twin brother.

He and his brother, Bob, were adopted when they were 2 weeks old. Richard and Robert Wetzel's real parents — as opposed to their biological parents — also have two daughters.

The family lived in Chicago. Not long ago, the boys met their biological mother in Iowa on her 86th birthday.

Wetzel and his wife have two sons. Jim is a lawyer in Florida who earned a law degree at the Washington University School of Law. He's married to Laura Reiser-Wetzel, who holds a doctorate in earth and planetary sciences in Arts & Sciences from the University.

But according to Wetzel, the couple's greatest accomplishment so far is their 3-year-old granddaughter, Anna Ruth.

"She's the first grandbaby," he says. "Like most grandparents, we think she's particularly bright and particularly cute compared to other children."

His son Rob's wife, Carrie Gilgun-Wetzel, has a master's degree from WUSTL's George Warren Brown School of Social Work.

He jokes that with all of the former University students and employees in his family, it might be appropriate to call the whole family "Washington People."



Wetzel (bottom right) jokes that with all the former University students and employees in his family, it might be appropriate to call the whole family "Washington People." Counterclockwise from top are Rob and his wife, Carrie; Jim's wife, Laura, Jim and their daughter Anna Ruth; and Wetzel's wife, Mickey.

Richard D. Wetzel

Hometown: Oak Park, Ill.

Education: B.A., Concordia Senior College, 1959; M.Div., Concordia Seminary, 1963; Ph.D., Saint Louis University, 1974

University position: Professor of psychiatry of neurology and neurological surgery

Family: Wife, Mickey; children, Jim and Rob; granddaughter, Anna Ruth; twin brother, Robert; sisters, Ann and Pat; and dog, Moxie