Governor's Visit: Missouri Gov. John D. Ashcroft (center) inspects tissue culture of the cassava plant with Roger N. Beachy, Ph.D. (right), professor of biology, and Proctor Edward S. Macias, Ph.D. (left), during a recent tour of the Washington University Center for Plant Science and Biotechnology. Beachy, the center's director, was awarded a $500,000 grant from the state last fall to establish the center, one of three Centers for Advanced Technology (CAT) in Missouri. Ashcroft recognized the accomplishments of Beachy and Washington University scientists who are seeking to develop new plants and plant traits through the latest biotechnological techniques. Research at the center, which was funded through the Missouri Department of Economic Development, is expected to boost the state economy; agriculture, agribusiness and industry are the future benefactors.

Jack R. Hessler, D.V.M., has been named assistant vice chancellor for veterinary affairs and director of the Division of Comparative Medicine at Washington University.

"We are delighted to receive Anheuser-Busch's support for the school," said Chancellor William H. Danforth. "Anheuser-Busch has been a long-term supporter of the school, and the company's continued assistance is greatly appreciated by Washington University.

Robert L. Virgil, D.B.A., dean of the business school, added: "We recognize that marketing is a central discipline in modern business, and we must have strength in marketing to be a premier business school. With the help of Anheuser-Busch — one of America's most effective marketing companies — we will vastly improve our marketing expertise."
Despite the declining population of high school graduates, Washington University continues to attract a large number of applicants, according to Charles S. Nolan, Ph.D., the new assistant provost and dean of admissions at Washington.

"In a year when highly selective universities throughout the country saw their applications decrease from 5 to 20 percent, Washington University experienced a modest 4 percent decline," notes Nolan. "This is particularly noteworthy, acknowledging that the overall strength of our applicant pool has improved significantly in recent years."

According to statistics compiled through Aug. 24, by the admissions office, 8,666 students sought admission to Washington this fall, compared to a record 8,920 a year ago.

"The large number of freshman applications enabled the undergraduate pool to admit on a highly selective basis, which resulted in this year's exceptionally talented class," says Nolan. "The strength of these new students gives convincing testimony to the growing national appeal of Washington University."

The class of 1993 comprises 1,216 freshmen, of which 602, or 49.5 percent are males, and 614, or 50.5 percent are females. The number of freshmen attending Washington last year was also 1,216.

As for the academic standing of the 1989 freshman class, 49 percent were ranked in the top 5 percent of their high school class, compared to 46 percent a year ago; 70 percent were ranked in the top 10 percent vs. 69 percent last year; and 52 percent were ranked in the top 20 percent, a slight increase over 91 percent in fall 1988.

The mean Scholastic Aptitude Test (SAT) score for the 1993 class is 572 verbal and 651 math, compared to 569 verbal and 645 math last year. The incoming freshman class includes 69 National Merit Scholars.

The class of 1993 includes 192 minority students, which is 16 percent of the total class, compared to 201 minority freshmen, or 16.5 percent of the total class last year. Of the minorities, defined as black, Asian Americans, Hispanics and American Indian students, 61 are black, 107 are Asian Americans and 24 are Hispanics. There are no American Indians.

Last fall, the freshman class included 72 black freshmen, or approximately 6 percent of the class. Of this year's 61 black freshmen, 38 are females and 23 are males, compared to 50 females and 22 males last year.

"The stability in minority student enrollment in our entering freshman class reflects a desire on the part of all serious students to attend quality institutions such as Washington," Nolan says. "Unfortunately, a nationwide trend of fewer black students attending four-year colleges and universities in recent years has had its effect this year.

"Attesting historically black colleges and universities has become even more attractive as well. In addition, the competition for black students, especially among the most selective institutions, has escalated significantly during the last five years. While there is a real need for the University to continue to focus energy and resources on attracting more minority students to Washington, our new freshman class is well represented by national standards of private universities."

The most popular majors among freshmen enrolled in the College of Arts and Sciences are biology, premed studies, English, political science, psychology, history and mathematics. Approximately 55 percent of the freshman class will receive some form of financial aid based on merit or need.

"I am most impressed by the quality of our new freshman class," comments Nolan. "By all measures, this class excels academically and has been involved in a broad range of co-curricular and extracurricular activities."

Among the students' varied activities are membership in the National Honor Society. A total of 408 incoming freshmen were members of their high school chapters and 19 served as presidents, 20 as vice presidents and 40 as secretaries or treasurers.

The freshmen also were involved in politics, journalism, music, dance, sports and several specialty clubs at their high schools. The class includes 20 women class presidents, 27 student council presidents, 72 yearbook editors, 51 newspaper editors, 18 literary magazine editors, 117 band/orchestra members, 6 student band directors, 67 chorus members, 5 chorus presidents, 110 piano players, 41 dancers and 4 cheerleaders.

Among the sport enthusiasts are 29 soccer captains and 4 soccer managers, 28 basketball captains and 7 basketball managers, 19 tennis captains, 17 volleyball captains and 5 volleyball managers, 13 track captains, 13 swim team captains, 10 cheerleading captains, 10 football captains and 2 ice hockey captains.

The students' club affiliations range from Students Against Drunk Driving (20 members) to Amnesty International (10). There also were 3 presidents of the American Field Service, 6 Brain Bowl presidents, 11 French club presidents, 7 math/computer club presidents, 8 drama club presidents, 9 forensics club presidents, 10 Model United Nations members, 1 NAACP vice president and 20 Spanish Honor Society members.

Other highlights about the class of 1993:

• Of the 1,216 freshmen, 723 are enrolled in arts and sciences; 238 in engineering; 159 in business; 69 in fine arts; and 59 in architecture.

• 42 percent are from the Midwest; 22 percent are from the Middle Atlantic States; 11 percent are from the South; 8 percent are from the West; 8 percent are from New England; and 3 percent are from foreign countries.
Meet the artists

Expanded Edison series offers "eclectic mix" of theatre, dance, music

The 16th season of Washington University's Edison Theatre features a full range of performances in theatre, dance and music.

The new season will bring an increased number of guest performers of world renown, as well as the best in avant-garde theatre, to Edison. "Our expanded program reflects the great success "OVATIONS" has had this past season," says Charles E. Robin, operations manager of Edison Theatre. "We have strived to broaden the series to include performances of international prominence, while continuing Edison's tradition of exciting new and different theatre. Subscriptions have tripled and attendance has quadrupled. It is dear to us that people really enjoy our new "OVATIONS" programming."

The 1989-90 season also will include more "Meet the Artists" sessions, which provide an unusual opportunity for people to meet with and learn from the performers. The number of events, "invaluable for young people," a highly successful choreographer, has been increased to four performances.

"OVATIONS! 89/90" is going to be a very exciting season," says Henry L. Shevy, Ph.D., chair of the Performing Arts Department. "I like to think that our eclectic mix of the highest quality theatre, dance and music brings something unique to the St. Louis cultural scene. I think we are not just the series, but our popular "Meet the Artists" and young people's programs are very models to be treated to a feast for the eye, the mind and the spirit.

The Edison season opens Sept. 22 and 23 with the return of the internationally heralded Market Theatre of South Africa. The Market Theatre, which performed their acclaimed "BOPHAL" to a sold-out crowd at Edison last year, will perform "You Strike the Woman, You Strike the Rock," created by the Vuyasa Players. The Vuyasa Players, South African women in their struggle against apartheid and the color barrier, are recognized as the world's best in modern dance. The presentation of "BOPHAL," which performed their acclaimed "BOPHAL" to a sold-out crowd at Edison last year, will perform "You Strike the Woman, You Strike the Rock," created by the Vuyasa Players. The Vuyasa Players, South African women in their struggle against apartheid and the color barrier, are recognized as the world's best in modern dance. The presentation of "BOPHAL," which performed their acclaimed "BOPHAL" to a sold-out crowd at Edison last year, will perform "You Strike the Woman, You Strike the Rock," created by the Vuyasa Players. The Vuyasa Players, South African women in their struggle against apartheid and the color barrier, are recognized as the world's best in modern dance. The presentation of "BOPHAL," which performed their acclaimed "BOPHAL" to a sold-out crowd at Edison last year, will perform "You Strike the Woman, You Strike the Rock," created by the Vuyasa Players. The Vuyasa Players, South African women in their struggle against apartheid and the color barrier, are recognized as the world's best in modern dance. The presentation of "BOPHAL," which performed their acclaimed "BOPHAL" to a sold-out crowd at Edison last year, will perform "You Strike the Woman, You Strike the Rock," created by the Vuyasa Players. The Vuyasa Players, South African women in their struggle against apartheid and the color barrier, are recognized as the world's best in modern dance. The presentation of "BOPHAL," which performed their acclaimed "BOPHAL" to a sold-out crowd at Edison last year, will perform "You Strike the Woman, You Strike the Rock," created by the Vuyasa Players. The Vuyasa Players, South African women in their struggle against apartheid and the color barrier, are recognized as the world's best in modern dance. The presentation of "BOPHAL," which performed their acclaimed "BOPHAL" to a sold-out crowd at Edison last year, will perform "You Strike the Woman, You Strike the Rock," created by the Vuyasa Players. The Vuyasa Players, South African women in their struggle against apartheid and the color barrier, are recognized as the world's best in modern dance. The presentation of "BOPHAL," which performed their acclaimed "BOPHAL" to a sold-out crowd at Edison last year, will perform "You Strike the Woman, You Strike the Rock," created by the Vuyasa Players. The Vuyasa Players, South African women in their struggle against apartheid and the color barrier, are recognized as the world's best in modern dance.

The Tony Award-winning National Theatre of the Deaf returns to Edison on Oct. 6 and 7 to perform "a dark, wild and mythic" adaptation of "The Terrors of Pleasure," a wide range of strange stories and reflections, will appear at Edison Theatre Sept. 22; the National Theatre of the Deaf on Oct. 6 and 7; and the "Meet the Artists" series to include performers of international prominence, while continuing Edison's tradition of exciting new and different theatre. Subscriptions have tripled and attendance has quadrupled. It is dear to us that people really enjoy our new "OVATIONS" programming."

Because she rarely performs solo and is making an exclusive two-week tour to selected Midwest cities, Anderson's performance is offered as Edison's special event, with ticket preference for subscribers. Her performance at Edison will include video, electronic music, and spoken material described by The New York Times as "poetically rich and musically compelling."

The Susan Marshall Company will give the final performance of the "OVATIONS!" season on April 27, 28 and 29. Choreographer Marshall focuses on the complexity of human relationships, family and friendships in her dances, which have been called "sly, humorous and giddy."

Recognized as one of the leading new choreographers on today's New York scene, Marshall appeared in the fall 1988 Next Wave Festival, an internationally renowned showcase for new performers at the Brooklyn Academy of Music. In an expanded selection of "Meet the Artists" discussions, seven performers will discuss their work. The artists are: Dave Parsons at 4:30 p.m. Oct. 27; the Kronos Quartet and composer John Zorn at 6:30 p.m. Jan. 27; the Waverly Consort at 6:30 p.m. Feb. 10, and Spalding Gray at a time and date to be announced. These events are free and open to the public. They will be held in the Mallinckrodt Center Drama Studio. The three of the ensembles will discuss their work in Edison Theatre immediately following their performances. They are: The Market Theatre on Sept. 22; the National Theatre of the Deaf on Oct. 6 and 7; and the "Meet the Artists" series to include performers of international prominence, while continuing Edison's tradition of exciting new and different theatre. Subscriptions have tripled and attendance has quadrupled. It is dear to us that people really enjoy our new "OVATIONS" programming."

The American Indian Dance Theatre presents a 26-member troupe of professional dancers from 15 different U.S. and Canadian tribes on a nation-touring schedule. Choreographed by Johnnie August and colorful costumes and live music, performed on authentic instruments transport the audience to the ancient cultures of North America.

Spalding Gray, best known for his movie monologue "Swimming to Cambodia," in which his participation in the filming of "The Killing Fields" serves as a jumping-off point for a wide range of strange stories and reflections, will appear at Edison Theatre March 2 and 3. Gray will perform "The Terms of Pleasure," a monologue on his attempts to renegotiate a dilapidated New England countryside as a place to build his first St. Louis appearance. Gray also will meet with students and participate in a "Meet the Artists" session. The performance artist is on a subbatical and is not touring the show. The St. Louis appearance is an exclusive booking 26. "OVATIONS!" events are $16 for the general public; $12 for Washington University faculty and staff and senior citizens; and $8 for students. Subscription rates for between four and seven shows are $14 per ticket for the general public; $10 for Washington University faculty and staff and senior citizens; and $7 per ticket for students. Subscriptions for between eight and 12 performances are $12 for the general public; $8 per ticket for Washington University faculty and staff and senior citizens; and $6 per ticket for students. Laurie Anderson is a special subscriber event. Subscribers will have first choice of seats. Single tickets will not go on sale until March 15, 1990. "OVATIONS!" events are Saturday matinees beginning at 2:30 p.m. Tickets for single events are $7.50 per ticket for any three or four performances.

For more information or to reserve tickets, call 889-6543.
A Growing Problem

Two 80-year-old women trip and fall, these are areas that are potentially trick. The American Geriatric Society. "It gives us a strategy to combat this devastating health problem." The amount and type of exercise required to achieve this prevention are not yet clear, say the researchers, whose work is part of a major, four-phase study on falls and hip fracture funded by the National Institute on Aging. But simply doing something is better than nothing performed at home, may well do the trick.

A Global Approach

"I think there will be a major shift in hip fracture research over the next few years, as we look into prevention of falls and deterioration of central processing speeds," says Birge. "I feel very optimistic because these areas are that potentially amenable to intervention."

Some 300,000 hip fractures occur annually in the United States, mostly among older white women, at a cost of more than $8 billion in 1987 alone. About two-thirds of the patients are hospitalized, nearly half of all hip fracture patients are discharged to a nursing home, where two-thirds of them will remain one year later. More than a third of patients who return home will live independently.

This problem is likely to increase dramatically in the next 10 years, Birge says, since the over-80 population is the most rapidly growing segment of the population. Some estimates predict a startling 800,000 hip fractures a year by 1995.

In the past, many scientists believed that hip fracture was linked solely to osteoporosis, itself a major health problem that afflicts more than 15 million Americans and leads to diminished bone mass — and bone strength — among the elderly. Study after study have shown that bones weakened by osteoporosis are more likely to break than normal bones. A recent study says that the 80-year-old hip fracture victims are 55 percent more likely to have lost bone mineral content in older women. Thus exercise would be one factor to investigate in this new study.

But they decided not to limit their focus to exercise, and instead to take a global approach. They initiated a research project, still on-going, in which they survey patients about their backgrounds, diet, medical histories, exercise patterns and recent falls. So far, they have interviewed some 60 elderly hip fracture patients and 55 control subjects admitted to the hospital for non-elective surgery.

They also assessed the speed at which the central nervous system processes information by asking each subject to complete a simple paper and pencil test. The participant is required to appropriately connect circled numbers and letters. The subject begins with the circled number 1, connecting it to the letter A, then A to 2, 2 to B and so on, in a continuous sequence. Subjects with dementia, visual or upper-motor impairment and depression were excluded.

"We found to our surprise that impaired central processing of information was a very important risk factor for hip fracture in this population," says Birge. "We found that 83 percent of people with a central processing impairment at age 70 also had hip fractures."

They also found that people who participated in some form of regular exercise performed better on the test than those who did not. People who walked for exercise reduced their risk of performing poorly by 46 percent, those who played tennis reduced their risk by 75 percent.

These findings tied in with results from phase one of their four-part study, in which they examined the epidemiology of falls. In this work, Washington University Medical Center investigators had looked at 1,350 people randomly selected from the community. A significant association was observed between a poor performance on the central processing test with persons reporting either multiple falls or hip fracture. A poor performance was associated with a two-fold increased risk of a fall in one year and a 5.7-fold increased risk of having experienced a hip fracture.

"Again we found that central processing appears to be a very important, if not the most important determinant of people who fall," Birge says.

Implications

That could mean, he says, that there is a physiological basis for the ad saying that when people retire, they often "go to pot." A study published last year in Science by Eugene Johnson, professor of pharmacology at Washington University School of Medicine, showed that when neurons in the brain are not nurtured, they simply self-destruct. Perhaps adequate exercise, along with intellectual stimulation and other factors, is part of that nurturing process, Birge speculates.

"The brain may be somewhat like a muscle," he says. "If you don't use it, you lose it."

With that loss, an inactive 80-year-old who suddenly tripped and fell might not realize it quickly enough to react. "There is enough delay in processing the information, then in signaling it to the appropriate muscles, that by the time the information is generated, the person has hit the ground," says Birge.

That loss of central processing speed also affects "fluid intelligence," those intellectual functions that require a rapid grasp of new information, such as learning a name or phone number. Studies by other researchers have shown that exercise may also improve some cognitive functions, such as short-term memory. But it does not affect "crystallized intelligence," or long-term acquired knowledge.

"This is a total re-orientation of our approach," Birge says. "But it does not affect "crystallized intelligence," or long-term acquired knowledge."

What happens when people try to regain some of that lost central processing speed by beginning to exercise at age 80? They can probably recapture a good deal, Birge says, though they will never have what they did at age 30. Nor can they equal the person who has continued to exercise since age 80.

"Once lost," he says, "it's probably lost forever."

Future Plans

Statistics show that at around age 70, the incidence of wrist fractures levels off, but the number of falls and hip fractures increases dramatically. Clearly, hip fracture victims are not using their hands to break falls; instead, full force is being directed to the hip.

Birge's group is now comparing the central processing speed of wrist fracture patients with that of hip fracture patients. So far the study is showing, as expected, that people with wrist fracture have better central processing speed.

By adding that data to results of earlier research on the epidemiology and physiological mechanics of falls, they will create a complete profile for the causes and results of falls. The final phase of the study will examine psychological components of falls and hip fracture.

In the future, Birge's team will expand the studies of central processing speed, obtaining even more accurate measures using sophisticated, computer-assisted techniques. They may also have begun studying central processing time before, during and just after exercise.

Their goal is to understand better the causes for hip fracture. "Only by knowing the cause can we develop rational strategies to prevent them," Birge says.

And by devising ways to improve central processing speed, they may also help the elderly to sustain more fully their cognitive function. "If we can maintain that intellectual function, we're going to do a great deal toward maintaining the quality of life in the older population," he adds.

Candace O'Connor

MEDICAL RECORD

Exercise each day may keep hip fractures away

Two 80-year-old women trip and fall, with very different results. The first lands hard on her hip, fractures it and is suddenly bed-ridden, having lost her mobility and independence. But the second swiftly puts a hand out to catch herself — and ends up with only a cast on her wrist.

What causes the second woman's quick reaction? It may come from a consistent pattern of exercise, says a team of researchers from Jewish Hospital at Washington University Medical Center. Their work suggests that this may be a viable way to reduce the central processing time and speeds up reflexive action that can help prevent hip fractures.

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Candace O'Connor

Older adults can work out at the OASIS exercise classes held regularly at several Famous-Barr stores. OASIS (Older Adult Service and Information System) is a non-profit national organization offering cultural, educational and wellness programs for anyone 60 years of age or older. The St. Louis OASIS program is affiliated with the School of Medicine, Jewish Hospital and The May Department Stores Co. Membership is free. For more information about OASIS, call 862-2933.
Cancer institute awards Purdy $1.4 million

James A. Purdy, Ph.D., professor and chief of radiation oncology physics at the School of Medicine's Mallinckrodt Institute of Radiology, has received a $1.4 million contract from the National Cancer Institute.

The contract calls for Purdy's research group to further define and refine computer-based, three-dimensional treatment planning tools for radiation treatment planning for cancer.

The research will utilize anatomical detail and tissue density information provided by computed tomography and make use of high-speed numerical processing and real-time display systems to calculate and evaluate radiation delivery.

Purdy will lead an interdisciplinary research team made up of medical physicists, computer scientists and physicists from the School of Medicine. The team will work with researchers from the University of Washington in Seattle and the University of North Carolina to develop a user computer interface for 3-D treatment planning tools.

Such systems will enable cancer specialists to individualize plans for treating patients by aiming the maximum dose of radiation directly to the tumor without damaging healthy tissue nearby.

**Cholesterol study needs volunteers**

The Lipid Research Center at the School of Medicine is seeking individuals who have suffered a heart attack to participate in a study to test a cholesterol-lowering medication.

Participants will receive physical examinations, electrocardiograms, laboratory tests and eye exams. Most visits will involve having blood drawn and seeing a registered dietician. Participants will be followed for approximately five years.

Principal investigator for the study is James Goldberg, Mallinckrodt professor of medicine. The project is funded by Squibb Corp., manufacturers of the primary medication used in the study.

The study requires that participants must be 21-75 years old with moderately elevated cholesterol levels, and must have suffered a heart attack within the last 14 months. Women may not be of child-bearing potential.

For more information, call the Lipid Research Center between 1 and 4 p.m. Monday through Friday at 361-8841.

**Grant elected to executive faculty**

Neville Grant, M.D., has been elected as a representative of part-time faculty members to the Executive Faculty of the School of Medicine.

He was chosen by the school's part-time faculty to serve on the council, which is the school's governing body.

Grant's internal medicine practice is with the Grant Medical Clinic, 114 N. Taylor. He also is professor of clinical medicine at the School of Medicine and is on staff at Barnes, St. Luke's and Missouri Baptist Hospitals.

Grant is a member of numerous societies including the American Society of Internal Medicine, American Diabetes Association, Endocrine Society and the American Medical Association.


damien adamik, his mother, halina, and aunt lida filipowicz spend a pleasant moment in front of st. louis children's hospital. while here, damien became a bit of a hero to doctors who had worked on his case. upon release from children's hospital four days after surgery, he blew kisses to reporters who had gathered to see him off.

physicians here open arms to polish family

Thanks to doctors at Washington University Medical Center, 19-month-old Damien Adamik, from Poland, is feeling better and has been discharged from the hospital. The family is happy to return home to Poland with rosier cheeks — and rosier fingers, arms, legs and toes — than he had when he left a few weeks ago.

Damien was born a blue baby. He had a defective heart that was unable to pump enough oxygen into his blood and provided poor circulation, both life-threatening situations. Doctors in Poland, working with outdated imaging equipment, could not properly diagnose his heart defects and therefore did not know what to do to save the little boy's life.

His aunt, Lida Filipowicz, of Geneva, Switzerland, contacted pediatric cardiologist Charles E. Canter, M.D., at St. Louis Children's Hospital after reading an article in which Canter discussed a new noninvasive technique that produces precise three-dimensional images of the heart for assessment before surgery. The technique was developed recently by Canter's colleagues, Michael W. Vannier, M.D., professor of radiology at the School of Medicine's Mallinckrodt Institute of Radiology, and John C. Lashinger, M.D., assistant professor of surgery.

The completely safe process uses a computer to align and stack two-dimensional magnetic resonance imaging scans into a three-dimensional picture, requiring no catheterization or injection of dyes. The heart that appears on the computer screen looks just like the heart inside the patient, complete with flaws.

Doctors here hoped this, in conjunction with other diagnostic procedures, would help determine the cause of Damien's problems so they could recommend surgery or other appropriate treatment to his doctors in Europe.

Arrangements were made for Damien and his mother, Halina Adamik, and aunt — the only member of the family who speaks English — to fly to St. Louis for the testing. Results indicated that Damien has a very unusual and lethal condition: His heart has only two chambers, rather than the standard four.

Doctors agreed that sending Damien home without surgery would be risky, and that to save his life, they needed to insert a tube in the heart to improve blood flow to his lungs. The two-hour operation, led by Thomas Spray, M.D., director of pediatric cardiovascular surgery, was a success. Damien's coloring immediately improved. "Look how pink he is!" his aunt exclaimed when she saw him after surgery.

Because of the family's limited budget and lack of health insurance, all of the physicians involved have donated their time to keep fees at a minimum. Housing was provided at the Ronald McDonald House, and the airlines waived the flight fare.

Damien will need to have more surgery in the future. His doctors say that when the time comes, the 3-D images he is taking home will greatly assist his surgeons in pre-operative planning.

**Majerus awarded MERIT status for blood clotting research**

Philip W. Majerus, M.D., professor of medicine and biological chemistry at the School of Medicine, has been honored for his scientific contributions by receiving MERIT status for his latest grant.

The five-year grant, totalling $2.3 million, is from the National Heart, Lung, and Blood Institute, part of the National Institutes of Health. MERIT (Method to Extend Research in Time) status provides long-term, uninterrupted financial support to investigators who have demonstrated superior achievement during previous research projects.

Philip Majerus is a frontunner in the field of hematology/oncology, said William H. Danforth, chancellor of Washington University. "He has played a key role in our understanding of how blood cells respond to environmental signals, specifically in the area of blood clotting. In the 1970s his lab discovered how aspirin prevents heart disease, leading to its widespread use as a preventive medicine. His efforts to understand thrombosis better are most deserving of MERIT status."

Researchers cannot apply for MERIT status, but are chosen in recognition of their consistent commitment to excellence. Those who receive MERIT status are freed from time-consuming paperwork and other delays associated with grant renewal applications, and may also obtain a three- to five-year extension of their grant, based on an expedited review of work accomplished during the initial period.

Majerus is known for his research on the role of platelets in forming blood clots and for the discovery of mechanisms by which cells respond to hormones and other external agents. These responses follow the formation of several different messenger molecules that carry signals from the cell's surface to its interior and to other cells. Interference with the formation of one such messenger provides the basis for the use of aspirin to prevent blood clots.

Majerus was the first to conduct clinical research indicating that daily low doses of aspirin can help prevent possibly fatal thrombosis (blood clotting) in kidney dialysis patients, without harmful side effects. His study suggested that aspirin might prevent clotting among patients who had already suffered one such occurrence, and indicated that healthy persons might take aspirin on a regular basis to reduce the possibility of a heart attack. A follow-up study conducted at Harvard University and published last year in the New England Journal of Medicine confirmed Majerus' preliminary work.

Current work involves studying an endothelial cell protein called thrombomodulin, a natural anticoagulant molecule, and several new enzymes and metabolites he and his colleagues recently discovered, which are involved in generating cell messengers.

Majerus is co-director of the Division of Hematology-Oncology, principal investigator and director of the Specialized Center for Research in Thrombosis, and a physician at Barnes-Jewish Hospital at the Washington University Medical Center.
Alumni association has new president

Roger L. Moll, M.D., has been named president of the School of Medicine Alumni Association. Moll, an orthopedic surgeon at St. Luke's Hospital, is president of the Southern Medical Association as well as the St. Louis Orthopedic Society. He graduated from the School of Medicine in 1965.

Before joining the staff at St. Luke's Hospital in 1971, Moll was chief resident in orthopedic surgery at Barnes Hospital. He completed a surgical internship and assistant residency in orthopedic surgery there. Moll's training also includes assistant residencies in general surgery at St. Luke's Hospital and in orthopedic surgery at the Shriners Hospital for Crippled Children in St. Louis. In addition, he served as chief resident in orthopedic surgery at John Hopkins Hospital.

At St. Luke's, Moll is president of the Hospital Staff Association. He also serves on the board of trustees of the Southern Orthopedic Association.

TLC room is open to medical employees' kids

The Washington University/St. Louis Children's Hospital Child Development Center will re-open its TLC room for children recuperating from minor illnesses. The service is open to young children of medical school employees.

The Washington University/St. Louis Children's Hospital Child Development Center will re-open its TLC room for children recuperating from an illness on Sept. 5.

The TLC room, which is not offered during the summer, is open to children whose parents are employed by the School of Medicine, St. Louis Children's and Jewish hospitals. Children do not need to be enrolled in the center's regular program, but parents must either pre-register for the service or call before bringing the child and register upon arrival.

For more information or to volunteer, call the Memory and Aging Project at 362-0625 between 8:30 a.m. and 4:30 p.m., Monday through Friday.

TLC room for children recovering from minor illnesses

The University of Alabama at Birmingham will re-open its Children's Hospital Child Development Center's TLC room for children recuperating from minor illnesses. The service is open to young children of medical school employees.

The TLC room is open from 8 a.m. to 5 p.m. at a charge of $3.50 an hour. The Children's Development Center, a not-for-profit service, is located at 4561 Highland Park Drive. Parents can enroll children aged 6 weeks through 2 years in the infant/toddler program, and those aged 3 through 6 years in the preschool/ kindergarten program. Rates vary, depending on age and whether children are enrolled on a full- or part-time basis, but compare favorably to most area centers with similar features.

The center is open from 6 a.m. to 8 p.m. Monday through Friday. For more information, call 533-6757.

Veterinary medicine — continued from p. 1

Hessler has received the American College of Healthcare Executives' Silver Medal Award for outstanding contributions to the health care field and the Outstanding Health Care Leadership Award from the Hospital Association of Metropolitan St. Louis. He has written five books, contributed chapters for other books and has published numerous articles in professional journals.

Hepner to chair society for health care executives

James O. Hepner, Ph.D., professor of health administration and director of the graduate health administration program at the School of Medicine, has assumed the office of chairman-elect of the American College of Healthcare Executives.

Hepner will serve a consecutive three-year term as chairman-elect, chairman and immediate past-chairman with the College, a Chicago-based international professional society of more than 22,000 health care executives. The college works to enhance health care management through comprehensive programs in credentialing, professional assessment, education, career counseling, publications, research and public policy.

Prior to taking the chairman-elect position, Hepner served as a member of the college's Board of Governors, and has served as a member of its Council of Regents. He was the first full-time university faculty member in the college's 50-year history to become a college regent and governor, and is the first to become a chairman officer as well. He also holds fellowship status in the college, the highest level of professional recognition.

Hepner joined the staff at Washington University School of Medicine in 1967 as the first full-time director of the Health Administration Program.

For the last seven years Hessler has served on the accreditation council of the American Association for the Accreditation of Laboratory Animal Care, and since 1972 has been an ad-hoc consultant on animal resources to the National Institutes of Health Division of Research Resources. He is a diplomate of the American College of Laboratory Animal Medicine, and a member of the American Association for Laboratory Animal Science, and active in several other national and state professional societies. He has written numerous journal articles and frequently has presented papers on his research at professional meetings.

Hessler's staff at Washington University includes two other former University of Tennessee staff members, Gerald A. Olson, D.V.M., a new staff veterinarian, and Nancy Lou Kaiser Miller is coordinator of animal care.
The annual open enrollment for health insurance will be held in October. During the open enrollment period the University of Missouri will conduct a number of programs to assist in the annual open enrollment of health insurance for employees. Washington University health insurance plans without an interruption of coverage. If you are not participating under one of the University's health insurance plans, you may enroll during the open enrollment period.

The following rules apply if enrollment changes are being made for the first time. You may enroll in one of our Health Maintenance Organizations, Partners or Group Health Plan; or TIAA Major Medical for coverage on Dec. 1, 1989. To enroll in Blue Cross-Blue Shield or Blue Shield and Blue Cross Blue Shield's network of alliance physicians, hospitals and surgical centers in the local service area. When a member uses an alliance provider, the services are provided at a reduced fee and the member realizes the full benefit of the BC-BS plan. If the member uses a non-alliance physician, hospital or surgical center within the area, benefits will be reduced.

The Blue Cross plan provides 100 percent coverage for a semi-private room for up to 70 days in the hospital. For employees not previously covered by another plan who are newly enrolled can enroll in the Blue Cross-Blue Shield plan provided you are actively at work and your dependents are not confined to a hospital. Coverage will be effective on the date you return to work or when your dependents are released from the hospital. For employees not previously covered by another plan who are newly enrolled the Blue Cross-Blue Shield coverage will be effective on the first month after approval by Blue Cross-Blue Shield.

Blue Cross-Blue Shield is not insurance participation is not available during the open enrollment. Enrollments into Partners, Group Health Plan, TIAA Medical, or transfers from one of these plans into Blue Cross-Blue Shield must be approved by University officials provided you are actively at work and your dependents are not confined to a hospital. Coverage will be effective on the date you return to work or when your dependents are released from the hospital. For employees not previously covered by another plan who are newly enrolled can enroll in the Blue Cross-Blue Shield plan provided you are actively at work and your dependents are not confined to a hospital. Coverage will be effective on the date you return to work or when your dependents are released from the hospital. For employees not previously covered by another plan who are newly enrolled the Blue Cross-Blue Shield coverage will be effective on the first month after approval by Blue Cross-Blue Shield.

All dental insurance for employees newly enrolled can enroll in the dental insurance plan any time during the year subject to a three-month wait for coverage. There is an annual and two-year waiting period for orthodontic benefits. The waiting period also applies for dependents if it is a late enrollment.

Health insurance allowance

The increase in the University’s health insurance allowance was effective in July. The allowance increased from $124 to $120 for full-time non-union employees and from $55 to $62 for part-time non-union employees to $150 per year or 150 percent of full-time service.

Blue Cross-Blue Shield

The Blue Cross-Blue Shield Alliance Program is a Preferred Provider Organization intended to encourage physicians to use Blue Cross and Blue Shield’s network of alliance physicians, hospitals and surgical centers in the local service area. When a member uses an alliance provider, the services are provided at a reduced fee and the member realizes the full benefit of the BC-BS plan. If the member uses a non-alliance physician, hospital or surgical center within the area, benefits will be reduced.

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FHA/VA mortgage loans are offered through St. Louis Teachers Credit Union

When St. Louis Teachers Credit Union opened the Mortgage Loan Department in February 1988, its ultimate goal was to become a meaningful "second mortgage" lender.

A complete line of conventional loans offering fixed and adjustable rates were first introduced in February in June 1988, the department developed an in-house mortgage loan program offering 15-year fixed rate mortgages with reduced rates, low points and prepayment penalty. Through the thorough investigation of these programs, SLTCU monitored the mortgage lending wants and needs of SLTCU members. During the mortgage loan counseling process SLTCU found members to have government insured loans, SLTCU offered the addition of FHA and VA Mortgage Loans.

With the addition of the FHA/VA Mortgage Programs, I believe the credit union can help even more members obtain their dream home. This program gives the member more avenues to pursue when inquiring about a mortgage loan," says Karen Koch, mortgage loan supervisor. The FHA/VA Mortgage Program is designed to help members purchase a home with a lower down payment than what is usually required on a conventional loan. If a person is a veteran and entitled to VA benefits, there is a 20 percent financing amount the physician charges in excess of the alliance fee. Currently, there are about 2,000 alliance physicians in St. Louis medical hospitals and two alliance surgical centers in the St. Louis area from which members can choose. The program does not apply to Medicare participants who are enrolled in the Senior Complementary Program.

Baby coverage reminder

The first baby in any of the University’s health plans must notify the Personnel Office of the birth of a baby and complete the appropriate forms to add the newborn baby to their health plan coverage. The completed forms must be submitted to the Personnel Office within 30 days after the birth of the baby.

Partners HMO

Partners HMO is marketed to the University community and is generally marketed through National Supermarkets as a new HMO pharmacy provider, effective Aug. 1, 1989.

Systems librarian search continues on clerical/secretarial and research positions open

Washington University is conducting a national professional search for the position of systems librarian at Olin Library. Qualifications for the position are: MLS from an ALA-accredited library school or graduate degree in a discipline related to information science; Work experience in a library processing environment, preferably one using the Nitos system; Programming experience and/or coursework in assembler language and/or a block-structured higher level language, preferably on a main-frame machine; Knowledge of interactive transaction processing and batch text processing applications desirable; Main duties: Participates in the ongoing development of an automated library information system and helps to maintain the efficient operation of existing automated processing systems; Send letter of application, resume and three letters of reference to: Virginia E. Tolin, Library Director of Library Personnel and Administrative Services, Olin Library, Washington University, Campus Box 1061, One Brookings Drive, St. Louis, Mo. 63130-4899. Applications will be accepted until Oct. 31, 1989, or until the position is filled.

In addition to the professional search, there are numerous openings in the clerical/secretarial and research fields. Current staff openings on the Hilltop Campus follow: Accounting, Bookkeeping - 2 positions; Clerical - 8 positions; Drafting - 1 position; Lab Technician - 2 positions; Librarian - 4 positions; Library Assistant - 5 positions; Maintenance - 1 position; Programming - 2 positions; Secretarial - 9 positions; Word Processing - 1 position; Parttime - 9 positions.

Information about these and other positions is available through the Hilltop Campus Personnel Office, Business Office, Personnel News, or Personnel Office, 2 Business Hall, 889-5990, and the Medical Campus Personnel Office, 4550 McKendree Ave., 362-7179.

Personnel News

Personnel News appears monthly in the Record and is compiled by the Personnel Office as a channel for personal and affirmative action, and other personnel matters. Personnel News is designed to keep Washington University employees and their families informed of the benefits and opportunities provided by the University.
Kathleen E. Brickley, J.D., George Alexander, J.D., and others have published an article on "The Foreign Corrupt Practices Act Amendments of 1988." Brickley, who is the Wynkoop Group's Director of Research and Business Liaibility Reporter. She has been chosen as president of the American Civil RICO Applications in the Highway Construction Industry for the Transportation Research Board. Her project is sponsored by the National Academy of Sciences. The Midwest Section of the American Bar Association is hosting an event on "Tainted Assets and the Right to Counsel" — The Money Laundering Defense. The event is scheduled for the summer issue of the Criminal Practice Law Review. Her commentary article titled "This Rights-to-Counsel Claim in Illusory" was published in the April 19th edition of The Legal Times.

Sharon D. Clark, director of administration for the School of Technology and Information Management, received the 1989 Excellence in Service Award presented by St. Louis Chapter 17 of the Society for Mining Engineers (SME), a professional society that offers seminars and training in engineering. SME is an international organization with chapters throughout the United States. It was at Clark's invitation that Chapter 17 established a student chapter at Washington University (Univ. of Wash.) in 1987.

Susan Crawford, Ph.D., director of the medical school library and professor of biomedical communication, recently received the University of Missouri-Columbia Graduate Award from her alma mater, the University of Toronto. The award, presented on the 600th anniversary of the Faculty of Library and Information Science, cited Crawford's contributions to the field of library and information science. Crawford also was elected recently to the board of overseers of the University Libraries of Tufts University, Boston. The board is responsible for policy governing the university's entire library system.

Gray L. Dorsey, J.S.D., Charles Nagel Professor of Law and International Law Emeritus, has been elected president of the American Section of the International Association for Philosophy of Law and Social Philosophy. He is the first American president of this group, formed in the mid-60s, he was one of the founders of the section. Dorsey was president of the international association from 1975-79.

Frances Foster-Simons, J.S.D., appointed professor of law, has written an article, titled "Restructuring of Soviet Legislation," to be published in the Stanford Journal of International Law. She addressed the Washington University alumni chapters in San Antonio and Dallas, Texas, on recent Soviet legal reforms and the future of Mikhail Gorbachev and his programs. She also spoke by the Bayan, Cave, McFerrin & McDivitt law firm once a month. Her speech was titled "The Mathias Rule Case: The Washington Legal System on Trial." 

Jack Haretein, M.D., associate professor of ophthalmology, was an invited guest speaker at the seventh annual Neurosurgery, Contact Lens and Anterior Segment Conference, held recently at the University of Toronto, Canada. He also spoke on "The Disposible Contact Lens, Concept and Reality, The Investigation and Extracition in Cataract Surgery."

Mark A. Hassen, a third-year medical student, recently published an article titled "The Effect of Polysulfide Sedimentation Suspension" in the Journal of Fluid Mechanics. A second article, based on work Hassen completed for his master's degree in chemical engineering at the University of Michigan, was published during the past two years, will appear in a future issue of the journal.

Derek M. Hirst, Ph.D., professor of history, prepared a paper on seminars in Cambridge, England. The paper was presented at the University of Wisconsin-Madison. He also presented a paper titled "The Politics of the House of Commons" at the Chicago Regional Renaissance Association at Northwestern University.

Rabbi Devorah Jacobson, associate executive director of the Hillel Foundation at Washington University, was awarded a one-year sabbatical leave to study religion and psychology at the Harvard Divinity School. Jacobson, who has her bachelor's in June, also recently received senior director status in the Hillel movement.

William C. Jones, J.S.D., professor of law, delivered a lecture on civil law at the New York University School of Law.

Roland Jordan, Ph.D., associate professor of philosophy, chaired the concluding plenary session of the Central Midwest Theology Society, held in Kansas City, Mo. He lectured on the nature of moral relativism. He also presented a paper jointly with Emma Kafalenos, Ph.D., lecturer in communications at the Xavier University College of Journalism, at the National Literature Conference, held at the University of Wisconsin-Madison, Madison, Wis. The paper, titled "Polite Trajectory: Ambiguity in Brahms and Henry James," was presented in a section on narrative and music.

Charles L. Leven, Ph.D., professor of economics, was invited by the Polish Academy of Science and the University of Lodz to spend a week in Poland during May as part of a seven-member American delegation. The delegation visited with local officials, toured several communities and was engaged in extended discussions with Polish scholars in order to formulate plans for a proposed Polish-American cooperative study of economic development, environmental control and public-private partnership processes in the context of Poland's commitment to centralized economic structure.


F. William Orrick, director of University Communication Services, and Gloria W. White, vice chancellor for personnel, attended the Midwest Regional Gardening Conference, held recently at the University of Wisconsin at Madison. Orrick was a presenter for the panel discussion on "Using Technology in Historic Resource Administration," which involved discussion of current and future applications of electronic telecommunications technology. White presented a session titled "Moving On Up," which focused on techniques for moving up the corporate ladder.

Robert H. Salisbury, Ph.D., chair of the political science department and professor of political science at the University of Maryland, attended the 47th Annual Meeting of the Midwest Political Science Association, held in Chicago. Other members of the political science department who participated in the meetings were Barry Ames, Ph.D., professor; Charles Franklin, Ph.D., associate professor; Victor T. Le Vine, Ph.D., professor; Julie Withers, visiting instructor in political science; and Kosaki, visiting assistant professor. Salisbury presented a paper for a panel on interest groups. Ames and Franklin chaired panels as well as served as panel discussors. Salisbury chair- ed a panel for which Withers was discussant. Kosaki and graduate students Christopher Gilbert and Douglas Warfelt presented papers.

Shawn Bowler, who earned his doctoral degree from the political science department in 1988, received the Brock's-Cole Award for the best paper presented by a graduate student at last year's annual meeting.

Karen L. Tokarz, J.L.M., professor of law and director of legal research, presented a paper to the College of Law, spoke to the St. Louis Women's Information Network on "Applying the Legal Rights of Women in Mis- sing." 

Have you done something noteworthy?

Two Washington University engineering faculty are among the 197 academic scientists and engineers to receive Presidential Young Investigator awards from the National Science Foundation.

Ronald S. Indeck, Ph.D., assistant professor of electrical engineering, and Richard D. Rabbit, Ph.D., assistant professor of mechanical engineering, are eligible for up to $100,000 per year in a combination of federal and matching funds.

"Rabbit researches the bio- mechanical vibrations of acoustics, especially as they relate to the study of the ear. He has studied ways to increase the energy input into the ear with hopes of medical applications in the future. Rabbit has pro- duced films and other graphics depicting images such as acoustic modes in the ear canal and vibrational shapes of the eardrum. "Rabbit came to Washington University in 1987. He was awarded the Engineering Professor of the Year Award for excellence in teaching during his first year. He received his bachelor's and master's degrees from Michigan State University, East Lansing, in 1980 and 1982, respectively, and a doctorate from Rensei- ler Polytechnic Institute in 1986.

April Hamel is named assistant dean of arts and sciences' graduate school

April L. Hamel, Ph.D., director of career services, has been appointed assistant dean of the Graduate School of Arts and Sciences, effective Aug. 1. Hamel succeeds Edward N. Wilson, Ph.D., who retired on June 30. "We are delighted to welcome to the graduate school someone with Dr. Hamel's proven capacity to provide quality career guidance and support," Wilson said.

Hamel's duties in his new assistant dean position will include alerting graduate students to financial aid opportunities, assisting in maintaining and making graduate school and working with graduate school staff in providing services to graduate students and departments.

Hamel has been affiliated with Washington University since 1987, when she was named director of the Graduate Associate Program. She subsequently was appointed director of graduate career services. Hamel was served as an assistant profes- sor at the University of Wisconsin and as an assistant grant director at Saint Louis University.

Hamel has a bachelor's degree in physics from Michigan State University (1975) and a master's degree (1977) and doctorate (1983) in atmospheric sciences from Saint Louis University.

NOTABLES

Nevada Investigator says go to engineers Indeck, Rabbit

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Hamel has a bachelor's degree in physics from Michigan State University (1975) and a master's degree (1977) and doctorate (1983) in atmospheric sciences from Saint Louis University.
Richard Walter receives second Fulbright grant to Argentina

Richard J. Walter, Ph.D., professor of history and director of the Inter- national Affairs Program, has been awarded a Fulbright grant to Argen- tina under the auspices of the Research Program. Walter, who began his 15-month leave of absence in July, spent seven months in Argentina conducting scholarly research for a future book on U.S.-Argentine relations.

"The book will be a scholarly work, but I hope, of broad interest," Walter said. "The purpose is not to introduce people everywhere to one of the world's most fascinating cities, and to tell them a little bit more about how it developed and how it was governed." The American Republics Research Program, of which Walter is a member, is a group which is designed to encourage understanding between Americans and people of other countries. The program was estab- lished in 1961, and Walter has held the material legislation introduced by former Secretary General of Missouri, Ruger has served as the National Affairs Program's chairman since 1964.

Ruger, a University alumna, has served on NACUA's board of directors and as a member of the University's Alumni Association. She has held the office of first vice president, second vice president, and most recently, president-elect. NACUA is a non-profit educational organization whose membership includes nearly 2,500 attorneys representing 630 institutions (and some 1,200 campuses). Its primary mission is to improve the quality of legal assistance to higher education by advising attorneys and administrators on campus legal issues.

Walter has been a member of the Washington University faculty for 16 years. He holds a bachelor's degree in history from Denison University (1963), and both a master's degree in history (1966) and a law degree (1969) from Washington University.

Ruger is named association's president

Peter H. Ruger, J.D., Washington University's general counsel, has been elected as the 1988-89 president of the National Association of College and University Attorneys (NACUA).

Ruger, a University alumna, has served on NACUA's board of directors and as a member of the University's Alumni Association. She has held the office of first vice president, second vice president, and most recently, president-elect. NACUA is a non-profit educational organization whose membership includes nearly 2,500 attorneys representing 630 institutions (and some 1,200 campuses). Its primary mission is to improve the quality of legal assistance to higher education by advising attorneys and administrators on campus legal issues.

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A serial of multiple full-page features about an upcoming edition by Dallas Morning News science editor Tom Siegfried appeared in this paper last week. The four Washington University experts who were quoted are: Theodore Reich, M.D., professor of psychiatry, genetic aspects of alcoholism and the "just- theories"; Lee Roberts, Ph.D., professor of sociology in psychiatry, heroin addiction; and Edwin B. Fisher, Ph.D., associate pro- fessor of psychology, cigarette smoke- ing. NACUA doubles its membership last year. Walter used the features were the May 22 American Bar Association Journal, May 24, 1989 (Penn.), Daily Record and the June 5 Wilkes-Barre (Penn.) Times-Leader.

Richard J. Walter, Ph.D., professor of history and director of the International Affairs Program, has been awarded a Fulbright grant to Argentina under the auspices of the Research Program. Walter, who began his 15-month leave of absence in July, spent seven months in Argentina conducting scholarly research for a future book on U.S.-Argentine relations.

"The book will be a scholarly work, but I hope, of broad interest," Walter said. "The purpose is not to introduce people everywhere to one of the world's most fascinating cities, and to tell them a little bit more about how it developed and how it was governed." The American Republics Research Program, of which Walter is a member, is a group which is designed to encourage understanding between Americans and people of other countries. The program was established in 1961, and Walter has held the office of first vice president, second vice president, and most recently, president-elect. NACUA is a non-profit educational organization whose membership includes nearly 2,500 attorneys representing 630 institutions (and some 1,200 campuses). Its primary mission is to improve the quality of legal assistance to higher education by advising attorneys and administrators on campus legal issues.

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June 7 in Brookings Quadrangle for the attack on the students by Chinese. Their most herculean efforts could service, participants lit red candles governmental leaders and Chancellor announcement that the Faculty of Arts was made in light of the April 11 teaching and research. His statement ended June 30, 1989, coinciding with the announcement that the gallery added "substantially to the richness of the American Association of Arts and Sciences, one of the nation's oldest societies devoted to science, the arts, and public affairs. The new fellows, William H. Danforth, M.D., lecturer in medicine, Irene and Michael Karl Professor of Americana and Social Sciences. Cited as "a university art museum at its best," the Gallery of Art received accreditation from the American Association of Museums." In its report, the AAM noted that the gallery added "substantially to the richness of the American Association of Arts and Sciences, one of the nation's oldest societies devoted to science, the arts, and public affairs. The new fellows, William H. Danforth, M.D., lecturer in medicine, Irene and Michael Karl Professor of Americana and Social Sciences. Cited as "a university art museum at its best," the Gallery of Art received accreditation from the American Association of Museums."

...more formidable than even the education programs throughout the nation are more formidable than even the most herculean efforts could overcome."...
SPORTS

Consistency is key to soccer team’s strategy

According to men’s soccer coach Ty Keough, consistency is the key to the Bears’ success. Why?

“First of all, if we are consistent, we can come away with an extremely great against the more difficult teams,” says Keough. “We should have that type of feel all the pressure to carry the attack where one or two guys don’t have all their eggs in one basket, and I think that will be the difference. Nearly half of the 1988 starters were first-year players at the varsity level.

“The Bears have set a challenging schedule for themselves. We will play numerous teams, all levels, but also some lesser opponents from the NCAA Division I and II levels, but also some lesser opponents from the NCAA Division III ranks. Says third-year coach Keough, the Bears must play as hard and efficiently against the lesser teams as they do against the more difficult opposition.

“A team that is successful usually doesn’t have all their eggs in one basket, and I think that will be the case for us this season,” says Keough. “Ideally, you want to have a balanced attack where one or two guys don’t feel all the pressure to carry the offensive. We should have that type of situation this year.

“There is a high level of competence in our league, or usually the top two or three teams, are generally NCAA tournament-caliber squads. There is a high level of competence in terms of coaching, facilities and play. It’s a prestigious goal for anyone to achieve.”

Also on the mind of the Bears will be a return trip to the NCAA tournament. Over the last four years the Bears have found themselves caught in a mysterious cycle. In 1985 and ‘87, Washington University placed second in the NCAA national tournament. In 1986 and ‘88, the Bears missed the tournament, and both times, finished the season two games over .500.

If a second-place finish in 1989 “I’d rather finish number one in the nation,” says Keough, “but if you ask me today, I would be satisfied to finish second, I’d say yes.” But ask me the same question prior to the season and the answer would be no.

If the Bears do become consistent and create a cohesive unit, then a UAA title and a return trip to the NCAA tournament is possible.

Volleyball Bears ready to serve up championship play

Great expectations.

Make no mistake about it, anticipation for the volleyball Bears. A quick check through the history book offers an easy explanation:

“Not only do we have depth,” says Clemens, “but we have variety and flexibility within that depth. The players on the court may not necessarily be chosen according to rank, but by the style of play needed. We can run a small, quick team out there or we can put a big, powerful group on the floor when we need to apply the hammer.”

The 1989 schedule will provide numerous opportunities to test our depth. Ever since the Red and Green were eliminated in the NCAA tournament three years ago because of a perceived weak schedule, we’ve been looking to add some of the heavy weight contenders. This fall is no exception.

The Bears open the season with matches against Division I foes St. Louis University and University of Missouri-Columbia and Division II Missouri-St. Louis and Quincy. Also on the slate are Division III powers Wisconsin-Whitewater, Illinois Benedictine, Elmhurst, Mendocino, Colorado College, Jumapa, Wisconsin-Eau Claire, and Rochester.

“Team craves competition,” says Clemens. “We’ve intentionally opened our schedule with some of the best in Missouri and then move straight to Elmhurst to hopefully defend our title. If we’re not ready when the curtain is drawn, so to speak, we’re not going to see some. W & R right away. But we’ll take what we get and play at least a couple of our games."

The Bears prepared for this fall by playing a spring slate composed primarily of exhibition matches. Clemens said, "I feel this spring helped us like no other season in my career. We played a level up and took our share of beatings. But by the time the spring was over the team had coalesced and we were ready to play each other.

"Our efforts this spring have enabled us to come a long way since last season. We improved our tactical analysis and discovered some new weapons."

“We’re ready.”
CALENDAR

LECTURES

Thursday, Aug. 31
10 a.m. Department of Microbiology Seminar, "Growing and Characterization of Game Fish Bearing Arsenic in Their Tissues in Synthesis," J. W. L. B. Seeley, Department of Biology, University of Edinburgh, 775 McDonnell Medical Sciences Bldg.

Noon. Department of Microbiology Seminar, "Translational Regulation of the Differentiation Protein Cysteine Protease Opener of E. coli." M. K. Whitaker, Department of Biology, University of Washington, 775 McDonnell Medical Sciences Bldg.

Wednesday, Sept. 6
10 a.m. Theobald Lecture, "Transcriptional Regulation of Bovine Sarcoma Virus and Related Animal Sarcoma Viruses," D. B. H. Lamb, Theobald Laboratory, 775 McDonnell Medical Sciences Bldg.

4 p.m. Biology and Biomedical Sciences Plant Biology Seminar, "Synthetic Pathways and Tissue Specific Biological Function of Peroxides From Alkenes," W. Bunnelle, Professor, Department of Chemistry, University of Wisconsin-Madison, 775 McDonnell Medical Sciences Bldg.

Thursday, Sept. 7
4 p.m. Department of Chemistry Seminar, "Structurally Interest-Producing Fats From Allolobathrys," D. V. B. Dubovy, Professor, Department of Chemistry, University of Missouri-Columbia, 75 McBain.

4 p.m. Department of Biological and Biomedical Sciences Plant Biology Seminar, "Targeting of Pre-Colombian Musical Instruments," A. K. Trudy, Professor, Department of Biological and Biomedical Sciences, University of Washington, 775 McDonnell Medical Sciences Bldg.

Friday, Sept. 8

3 p.m. Dept. of Chemistry Seminar, "Structural Biology of Membrane Protein," D. V. B. Dubovy, Professor, Department of Chemistry, University of Missouri-Columbia, 75 McBain. For more info., call 889-5581.

8 p.m. Hillel Lecture, "Just War," Secretary General, World Jewish Congress, Department of Religion, University of Washington, 775 McDonnell Medical Sciences Bldg.

9 a.m. Saturday Morning Jewish Sciences Seminar in the Jewish Studies Program, "Jewish Humor," J. S. Wolf, Professor, Department of Computer Science, Hebrew University, Jerusalem, 7000 Yoshio Bldg. For more info., call 720-6477.

Saturday, Sept. 9
8 a.m. WU School of Medicine General Surgery Grand Rounds, "General Surgery," P. G. Arnold, WU School of Medicine, 775 McDonnell Medical Sciences Bldg.

Saturday, Sept. 9
10 a.m. Department of Chemistry Seminar, "Neurons," E. W. McCuskey, WU Associate Professor, Department of Chemistry, University of Missouri-Columbia, 75 McBain. For more info., call 889-5581.

Tuesday, Sept. 5
7:30 p.m. Men's Soccer, WU vs. Webster University, Francis Field.

Sunday, Sept. 3
7:30 p.m. Men's Soccer, WU vs. Webster University, Francis Field.

Wednesday, Sept. 6
7:30 p.m. Men's Soccer, WU vs. St. Louis University, Francis Field.

MUSIC

Friday, Sept. 1
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Saturday, Sept. 5
1 p.m. Men's Soccer, WU vs. Alumni, Francis Field.

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7:30 p.m. Men's Soccer, WU vs. St. Louis University, Francis Field.

Eight-week smoking cessation program begins Sept. 5

The Washington University Smoking Clinic will begin its 12th year of helping smokers kick the habit with a new session scheduled to begin on Tuesday, Sept. 5. Orientation for the eight-week program will be held at 5:30 p.m. on campus.

The course, to be held on Tuesdays, costs $150. All but $15 of the fee is refundable at the end of the session, or may be moved location and to register, call 889-6527.

The clinic has seen hundreds of smokers during the past 11 years, says Edwin B. Fisher, Ph.D., associate professor of psychology and director of the University of the Center's Health Behavior Research. He is a nationally recognized expert on the psychology of smoking and serves as president of the American Lung Association of Eastern Missouri.

During this time, we have been doing smoking cessation research through the Department of Psychology," says Fisher. "We've found that we could — without shocks or noise or any other aversive procedures — achieve state-of-the-art success rates of about 30 percent. The average successful quitter falls two or three times before ultimately succeeding," Fisher adds, "so even people who relapse at the end of our clinic may use what we learned to quit later on.""We've found that we could — without shocks or noise or any other aversive procedures — achieve state-of-the-art success rates of about 30 percent. The average successful quitter falls two or three times before ultimately succeeding," Fisher adds, "so even people who relapse at the end of our clinic may use what we learned to quit later on."

 Nationwide, the success rate for people trying to quit smoking on their own is about 5 percent, Fisher says. He and his colleagues have found success more likely when quitters set their own quit date rather than gradually reducing the number of cigarettes they smoke. The clinic's program includes several sessions before the quit date to help people assess their motivations for smoking. Before their quit date, participants learn how to reduce the extent to which certain triggers make them want to smoke. Triggers can be a morning cup of coffee, a work break, a telephone call or other activity. "Smoking is associated with almost every social situation and feeling that we experience," says Fisher. "There is a profound sense of withdrawal."

When they quit, participants learn how to reduce the extent to which certain triggers make them want to smoke. Triggers can be a morning cup of coffee, a work break, a telephone call or other activity. "Smoking is associated with almost every social situation and feeling that we experience," says Fisher. "There is a profound sense of withdrawal."

The smoking clinic program is sponsored by the American Lung Association and the Missouri Department of Health. It is supported by a grant from the National Cancer Institute.

Calendrier
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