Jackson, Bradley among speakers in Assembly Series

Richard Wilbur, poet laureate of the United States from 1987-1991, will open the University's Assembly Series Aug. 26 with a memorial lecture honoring Howard Nemerov.

Nemerov was the Edward Mallinckrodt Professor of Arts and Sciences, Emeritus of English and Distinguished Poet in Residence at Washington University for four years. He died July 5, 1991, after a long battle with cancer. He was 71.

During the memorial lecture, Wilbur read selections of Nemerov's poetry, as well as some of his own. Wilbur, who won the 1980 Pulitzer Prize for his book, Nine and Gladly, Power, presented the lecture at 11 a.m. in Graham Chapel.

This year's lecture series also will include talks by Nigerian writer Wole Soyinka, winner of the 1986 Nobel Prize in literature; John Singleton, creator of the film "Boyz N the Hood"; Daniele Wilbur, who won the 1989 Pulitzer Prize for his book, Nine and Gladly, Power, presented the lecture at 11 a.m. in Graham Chapel.

Three people walked slowly down the stairs in Mallinckrodt Center. On the floor below, groups of students already were sitting in circles, laughing and sharing stories.

All three people glanced around cautiously. First down the stairs was a woman in her late teens. Her parents followed. The young woman's eyes scanned the room, looking for a familiar face. She appeared nervous.

But her feeling of apprehension was short-lived. Soon, she was welcomed into one of the small groups of students.

Her parents, who once looked concerned, relaxed a bit. As they watched the young woman become more animated, telling stories of her own, they began to smile. Their daughter, a college freshman at her new home away from home, was fitting in.

She was participating in a "getting-to-know-you" small group session with other freshmen on their first day at Washington University. The discussions were part of Freshman Camp, an orientation before the official Washington University orientation for the entire class. Freshman Camp, sponsored annually by the Campus V, was held Aug. 20-22. For the 149 freshmen who participated, it gave them three days to meet their classmates, learn their way around and move into the residence halls before the rush.

During Freshman Camp, wiser, more experienced sophomores, juniors and seniors serve as counselors. For three days, the freshmen embarked on all sorts of activities designed to bring them closer together.

During the small group sessions, the students answered questions like "What was your nickname in high school and why?" or "If you could be any animal, what would you be?" and "What's your favorite holiday and why?"

Within a few short minutes, freshmen who were standing rigid against the wall, hands in pockets, began talking about why they'd like to be an elephant: Their parents continued watching their daughter and the other campers.

"One of the things that kids fear most is, 'Will they like me? Will they manage me?' This is a great idea of being able to meet other kids their age and older kids, informally, where they can talk. Camp itself has that feeling of closing the gap. Climbing the mountains and crossing the river brings people together," he said.

The father, who at first gave his name for this article, later changed his mind and asked not to be identified. "No, I just want to let her go her way. This is her time. I'll just slip into the background here. I think it's best that way."

As their daughter and other freshmen started heading across campus for games, the parents stayed behind.

Later that evening, the freshmen met in several of the residence hall lounges for a slamberg party. In past years, the freshmen stayed overnight in their rooms, but counselors found that the original training by Martha Graham to tend to feel lonesome.

"When I was a camper, I remember I was the only one on my floor," said Michael Correll, a junior counselor. "We got done with everything around 10:30 p.m. and I had a lot of nervous energy. You don't want to be alone."

The next day, everyone boarded buses for Trout Lodge, the YMCA of the Ozarks 80 miles south of St. Louis. On the way, campers played a game in which they kept changing seats.

"Every five minutes, you meet a new person," Correll said. "We rotate and go all the way around the bus."

Correll noted that some of the activities might be difficult for introverts, but he added that dealing with shy people was included in counselor training. "We discuss what to do if a..." Continued on p. 2

New Edison season features entertainment for everyone

Edison Theatre's 1991-92 season promises something for everyone. Now in its 19th season, Edison offers a wide selection of outstanding music, dance and theatre in three different series — mainstage "OVATIONS!" "Stage Left" and "ovations!" for young people.

The mainstage series opens Sept. 20 with a one-night appearance by singer, actor, cabaret performer Mandy Patinkin. Patinkin, known for his sensitive musical style and versatile acting ability, will perform his solo show "Dress Casual." Newfoundland calls his performance "an absolutely terrific 90 non-stop minutes in the theater." Edison will celebrate The Year of Tibet on Oct. 25 and 26 with the Lhaso Folk Opera of Tibet. The group's poetically moving, often comic expression of Tibetan myths is lashed with shimmering instrumentals, striking masks and the resonance of drums and cymbals. This event is presented in association with the Department of Asian and Near Eastern Languages and Literatures, the Asian Art Society and Friends of Tibet.

Legendsay jazz percussionist and composer Max Roach and the Uptown String Quartet will perform Nov. 1 and 2. The shows will feature everything from jazz, blues and gospel to the latest sounds from contemporary black composers. Roach and the Uptown String Quartet are presented in association with the Department of African and Afro-American Studies and the Contemporary Jazz Society of St. Louis. Roach also will speak on "American Music Perspectives." Nov. 1 in Edison Theatre, as part of the University's Assembly Series.

On Nov. 8, 9 and 10 the Balseve Dance Company from Israel brings its passionate, risk-taking dance to St. Louis for the first time in 20 years. Originally trained by Martha Graham, the troupe combines the grace of ballet with the eloquent weight of... Continued on p. 3
A book that has never received a major award in its native language recently was voted the most profoundly influential book of the 1950s by the readers of the Taiwan-based newspaper China Times, the largest daily paper in that country. The 1958 book, which has never been translated, has sold almost 100,000 copies in more than 50 printings.

"I wrote the book for myself," says I.-u. Ch'iao, whose story about the friendship between two young people during the Second Sino-Japanese War was translated, has sold almost 100,000 copies. "I was not in a hurry to get my book published, but after I had finished it, I couldn't help feeling a little closer. The book was Wu's Writings: the Edward Mallinckrodt Distinguished University Professor Emeritus of the History of Art and Chinese Culture, also is a little surprised. "I wrote the book for myself," says I.-u. Ch'iao, whose story about the friendship between two young people during the Second Sino-Japanese War was translated, has sold almost 100,000 copies.

"I was not in a hurry to get my book published, but after I had finished it, I couldn't help feeling a little closer. The book was published a collection of stories titled "Song Never To End," an outstanding scholar of art history. "I wrote this book for myself," says I.-u. Ch'iao, whose story about the friendship between two young people during the Second Sino-Japanese War was translated, has sold almost 100,000 copies.

"I was not in a hurry to get my book published, but after I had finished it, I couldn't help feeling a little closer. The book was published a collection of stories titled "Song Never To End," an outstanding scholar of art history.
Edison

modern dance for one that Washington Post describes as "athleticism, energy, and hard-sell urgency that makes them extremely compelling to watch." Itzhak's appearance is co-sponsored by Dance St. Louis.

Aequalis, a chamber group that champions new American music, will perform for one night only on Nov. 24-26, has spent 20 years defying all conventional notions of movement by combining physical theatre, music, dance, and sculpture into striking choreography. The dance troupe's Edison appearance is co-sponsored by Dance St. Louis.

The Black light Theatre of Prague is featured as this season's special family performance. The troupe will give three performances of the Czech version of "Alice in Wonderland" Feb. 7 and 8, including a special full-length performance for the whole family at 2 p.m. Feb. 8.

The inimitable Spalding Gray is back by popular demand. Feb. 21 and 22 for two nights of outrageous story-telling, stand-up comedy and verbal virtuosity that has him listed on any trade-mark. The Riverfront Times says "an evening with Spalding Gray is as funny, moving and powerful as any you can experience in the theatre." Gray's performance ties together association with the Contemporary Arts Society of the St. Louis Art Museum.

On March 6 and 7 "My Children! My African Children!"
is a play that takes the audience on a new play from South Africa, confronts a central issue for the continent — is violence necessary to attain freedom? Fugard, author of "Blood Knot" and "Master Harold... and the Boys," has won international recognition as a central figure in the New Wave of South African. Both performances of "My Children!" are dedicated to the Friends of the Edison.

"New Wave" juggler Michael Moschen will animate the inaugural April 24 and 25. Moschen magically wraps the audience in a world of acrobatics Jan. 25. The troupe's antics will delight audience members as Pilobolus members twist and intertwine their bodies into life-size balloon sculptures. The magical Grinnis fairy tales will come to life Oct. 4 when the illustrated Theatre Touring Company performs Feb. 23. The ensemble uses mime, clowns and other unconventional methods to bring these classic children's tales to life.

On April 26 wild and wacky juggler Michael Moschen will perform a special one-hour show. All "Ovation's for young people" performances are approximately one hour and begin at 2 p.m., unless otherwise noted. "Tickets for 'ovation!' for young people" are $7. Subscription rates for all three series also are available.

Edison Theatre performances are wheelchair accessible, and the Sennheiser Infrared Listening System is a special one-hour show. Tickets to "Stage Left" are $10 for the general public; $8 for senior citizens Edison blockbusters "The Velveteen Rabbit" by Margery Williams, "Who Wanted to Talk to Whales" by Xiaoqing Yang, who is pursuing a master of science in marine biology. Yang will give them a taste of American life and culture.

Cabinet member Niyati Pathikin will open the mainstage "OAVATION's" series with her solo show "This was the last show I saw in Chicago. His research interests are in the economic analysis of marketing problems, with special emphasis on advertising, coupon and price promotion, in particular competitive models, product introduction and competitive marketing strategies. He has a doctorate in marketing and a master's in operations research from the University of California at Berkeley. He also holds degrees in physics, electronics and computer science from the Indian Institute of Technology in Delhi.

Narasimhan's research is widely recognized and cited by the very scholars in marketing. Virgil said: "He has been instrumental in the building of a strong marketing program at Olin."

The Siteman professorship is made possible by an endowment fund established by Alvin J. and Ruth Steaman of St. Louis. The chair is named in honor of Alvin's late father, Philip L. Siteman, founder of the Siteman School of Engineering.

Alvin J. Siteman has been a Western Illinois University trustee since 1985. He is president of the Siteman Organization, a real estate management and development company, and of Site Oil Co. and Flash Oil Corp., a chain of gas station and convenience stores in the Midwest and South. He also is chairman of the board of Mark Twain Bancshares Inc.

Al and Ruth Siteman have given much of their time to the University of St. Louis and Washington University both of which attended by Al Siteman, late father, Phil. Chan- cellow William H. Danforth said. "The Siteman's support for a professorship in marketing reflects their conviction that having a distinguished business school for the University is an impor- tant asset to St. Louis."

Senior citizens needed for highway sign experiments The Aging and Development Program needs people over age 65 to participate in a study on how elderly drivers perceive highway signs. Only individuals who have a valid driver's license are eligible to participate.

Volunteers will be paid $10 for an hour of their time, which will be conducted in the psychology laboratory at the University.

The study hopes to determine what aspects of highway signs are perceived as clear or difficult to read by older drivers. The study's chair and post-doctoral fellow D.J. who believe that the goal is to reduce the risks faced by older drivers.

Also, too old for adults often complain that they do not see high- way signs as clearly as other people are appropri- ately," Bell says. "It has been esti- mated that 60 percent of automobile accidents involving the elderly are attributable, in part, to the failure to obtain necessary information. For information, call 935-6546.

International Office seeks host families The International Office is seeking 75 families to participate in the Host Family Program for the 1991-92 academic year. The Host Family Program is designed to promote cultural exchange between the University's international students and American families. Host families do not provide living accommodations but do give them a taste of American life through monthly gatherings such as family dinners, picnics and trips to the theatre and sporting events. The families also help students become oriented to the local community.

Sharing experiences enriches the lives of both the students and the host families. Several host families, for example, assisted with the wedding of Xiaoyan Yang, who is pursuing a doctorate in chemistry at Washington University, and her husband, Yun- Feng Xie, who received a doctorate in chemistry from the University on Aug. 20. The couple were married this past May and held a reception at Stix International House.

In past years, the hosts have ranged from single parents to three- generation families. Students and families participate in the program for a minimum of one academic year and are paired according to common interests.

During the 1990-1991 academic year, more than 800 foreign students from 72 countries attended Washington University. The University's largest number of international students were from China and the U.S.

For more information, call 935-5010.

Narasimhan named Siteman Professor in Marketing Chakravarthi Narasimhan, Ph.D., has been appointed as the first Philip L. Siteman Professor in Marketing at the John M. Olin School of Business, Dean Robert L. Virgil, D.B.A., has announced. Narasimhan joined the School in 1988 after seven years as a faculty member at the University of Chicago.

His research interests are in the economic analysis of marketing problems, with special emphasis on advertising, coupon and price promotion, in particular competitive models, product introduction and competitive marketing strategies.

He has a doctorate in marketing and a master's in operations research from the University of California at Berkeley. He also holds degrees in physics, electronics and computer science from the Indian Institute of Technology in Delhi.

Narasimhan's research is widely recognized and cited by the very scholars in marketing. Virgil said: "He has been instrumental in the building of a strong marketing program at Olin."
Social work faculty ranked #1 in scholarly productivity

Washington University's School of Social Work faculty was the most published social work school faculty in the country during the 1987-1991 period, according to a recently published study. The faculty of the Graduate School of Work (GWB) at Brown University was ranked number one among the nation's 125 social work schools in terms of scholarly productivity during the years 1977-1987, according to the study. In addition, when adjusted for faculty size, GWB consistently came in second over three five-year time periods — 1972-76, 1977-1981 and 1982-87. No school consistently came in first over these three time periods.

Kevin J. Corcoran, associate professor at the University of Houston, and Stuart A. Kirk, professor at Columbia University, conducted the study, which looked at different types of journals and examined how a school's productivity rank varied by type of journal, faculty size and over time. According to their findings, 24 GWB faculty were published in academic journals between 1977-1987. The University of California-Berkeley came in second in faculty productivity with 21 faculty members publishing 79 articles during that same time period. The University of Wisconsin-Madison, with 26 faculty members publishing 78 articles, was third in the rankings.


"Social work faculty is one of the most socially productive in the nation," said Corcoran. "The GWB faculty is one of the most consistently so." The GWB faculty members' contributions to the advancement of knowledge have been significant and consistent. Now, they are also recognized by their peers throughout the country.

"The quality of the faculty is one of the key reasons why the school is in the top three," said Corcoran. "It is simply a matter of excellence in any program. We are very fortunate to have a faculty that is equally committed to excellence in teaching."
Frost, King receive research fellowships

The KPMG Peat Marwick Foundation has awarded $25,000 fellowships to Carol Frost, Ph.D., assistant professor, and Ronald R. King, Ph.D., alumni fellow, both of accounting at the John M. Olin School of Business. Windrow spoke of the outstanding efforts of Carol Frost and Ron King," said Virginia McRoberts, the managing partner of the St. Louis office of KPMG Peat Marwick. "The accomplishments of all of the winners of the KPMG Peat Marwick Fellowships are of the highest quality and we are proud to acknowledge them. We look forward to continuing our support of these superior research-minded professors.

Frost has received a KPMG Peat Marwick Research Fellowship to pursue a two-year research project in international accounting and ethics issues. The foundation selected this year's 10 research fellows from 55 applicants.

Assistant dean at law school appointed

Mark W. Smith, J.D., a former associate at the Bryan, Cave, McPheeters & McRoberts law firm in downtown St. Louis, has been appointed assistant dean of the School of Law, according to Donory D. Ellis, J.D., dean. Mr. Smith has a 1986 graduate of the law school, "brings to this position the benefits of a strong academic record, six years' experience in private practice, ongoing involvement with the School of Law and the University, a natural empathy and an outgoing personability," said Ellis. "I know he will do an outstanding job in this position."

Smith succeeds Debra Carlson

The Record is running a series profiling new faculty members of the Hilltop and Medical campuses.

introductions to new faculty

Robert F. Henke, Ph.D., assistant professor of drama, comes to the University from the University of California at Irvine and his thesis in organismic chemistry. He comes to the University from the Monsanto Corporate Research Laboratory, where he was a research specialist. He received his bachelor's degree in chemistry from the University of California at Irvine and his thesis in organismic chemistry from Oxford University. In 1984-85 he was a National Institutes of Health postdoctoral fellow at Harvard University, and he has twice won the Monsanto Achievement Award for Research.

Bruce C. Martin, M.D., associate professor of economics, comes to Washington University from the Federal Reserve Bank of Chicago, where he was a senior economist. He also has worked as a consultant for the bank and for the U.S. Department of Energy. His research interests are in industrial organization, public finance and microfoundations of macroeconomics. His teaching background includes seven years as an assistant professor at Northwestern University and three years as a teaching assistant at Harvard University. A member of the editorial board of the Journal of Small Business Research, Peterson received a bachelor's degree in economics from the University of California in 1976 and a master's degree in economics from Harvard University in 1981.
Summer brings many changes to campus community

During summer breaks when most of the students are gone, the Washington University campus resembles a ghost town. The lack of students and the empty classrooms can make it difficult to find a quiet place to study or to even see other people. However, this is the time when many changes are happening on campus, both physical and social.

First, the landscape of the campus is transformed. The trees that were once bare are now full of leaves, and the colors of fall are on display. The leaves are falling, and the groundskeepers are busy clearing them away. The campus is also experiencing a lot of construction, with new buildings being erected and old ones being renovated. This can be a little disruptive, but it's also exciting to see the progress being made.

Second, the campus community is also experiencing changes. The staff and faculty are back in residence, and the academic year is underway. The students are back, and the university is once again bustling with activity. This is also a time of transition, with many students moving into new dorms or apartments and starting new classes.

Another change is the increase in the number of visitors to campus. This is a great opportunity to showcase the university and its many attractions to potential students and their families. The campus is also open to the public for special events, such as concerts and艺术 performances.

Finally, summer is a time for relaxation and recreation. The weather is warm and sunny, and there are many outdoor activities to enjoy. This is a time to take advantage of the facilities and grounds, whether it's swimming in the pool, playing sports on the fields, or simply taking a stroll around the campus.

In summary, summer is a time of change and transition at Washington University. It's a time to adapt to the new circumstances and to make the most of the opportunities that are available. Whether you are a student, faculty, staff, or visitor, there is something for everyone to enjoy.
Investment returns help evaluate performance

The following information will help you evaluate the Vanguard Funds offered through the University of Washington Retirement Plan. It describes our funds’ objectives and strategies, provides historical investment performance over one-, five-, and ten-year spans. The fund categories are presented in order of approximate risk, from the most conservative to the more volatile. When evaluating fund performance, it is often helpful to consider a fund’s return relative to that of an appropriate broad market index or benchmark. For this purpose, a table of indexes representing benchmark returns for various categories is included on this page. For more information and a prospectus for a particular fund, or to make an exchange, please call a Vanguard participant service representative toll-free at 1-800-523-1188.

Money market funds

Objective: Seeks maximum current income that is consistent with preservation of capital and liquidity. Please note that an investment in a money market fund is not insured, nor is it insured by the FDIC. Rather, it is insured only by the protection of the portfolio if insured. Thus, the value of the fund may be less than the net asset value at the time of purchase.

Average Annual Total Return Performance

For Periods Ended June 30, 1991

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<tr>
<th>Portfolio</th>
<th>One Year</th>
<th>Five Years</th>
<th>Ten Years</th>
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<tbody>
<tr>
<td>Vanguard Money Market</td>
<td>9.43%</td>
<td>9.43%</td>
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<tr>
<td>Vanguard PrimePort</td>
<td>11.29%</td>
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Money market funds generally will provide higher current income and lower capital gains distributions in additional shares, and are net of expenses.

Risk/Reward Potential: Low to moderate.

Growth and income funds

Objective: To achieve growth of principal and income and reasonable current income by investing in stocks believed to offer growth potential plus market or above-market dividend income.

Risk/Reward Potential: Moderate.

Average Annual Total Return Performance

For Periods Ended June 30, 1991

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<tr>
<th>Portfolio</th>
<th>One Year</th>
<th>Five Years</th>
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<tr>
<td>Vanguard Asset Allocation Fund</td>
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<tr>
<td>Vanguard PrimePort</td>
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Growth funds

Objective: To seek long-term growth of capital. Dividend income is incidental.

Risk/Reward Potential: Moderate to high.

Average Annual Total Return Performance

For Periods Ended June 30, 1991

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<th>Portfolio</th>
<th>One Year</th>
<th>Five Years</th>
<th>Ten Years</th>
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<tr>
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<td>Vanguard Index Trust- Index Fund</td>
<td>11.56%</td>
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<tr>
<td>Vanguard Index Trust- International</td>
<td>14.69%</td>
<td>23.86%</td>
<td>37.29%</td>
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Aggressive growth funds

Objective: To seek long-term growth.

Risk/Reward Potential: Very high.

Average Annual Total Return Performance

For Periods Ended June 30, 1991

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<th>One Year</th>
<th>Five Years</th>
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<tr>
<td>Vanguard Growth Fund</td>
<td>11.56%</td>
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<td>Vanguard Growth Fund</td>
<td>12.57%</td>
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<td>Vanguard Growth Fund</td>
<td>13.51%</td>
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<td>50.52%</td>
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Comparative indexes

The following indexes are used in the table below to represent market returns in various asset categories. An index can be used as a standard for evaluating a fund’s relative performance. Please note, however, that the Vanguard Total fund return data are presented net of expenses, while the indexes do not reflect any of the “real world” costs of investing.

AVERAGE ANNUAL TOTAL RETURN PERFORMANCE

For Periods Ended June 30, 1991

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<tr>
<th>Type</th>
<th>One Year</th>
<th>Five Years</th>
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<tbody>
<tr>
<td>Vanguard Stock Fund</td>
<td>10.42%</td>
<td>15.57%</td>
<td>24.99%</td>
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<tr>
<td>Vanguard Bond Fund</td>
<td>10.19%</td>
<td>14.82%</td>
<td>23.67%</td>
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<tr>
<td>Vanguard Money Market</td>
<td>9.43%</td>
<td>14.03%</td>
<td>23.15%</td>
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Risk/Reward Potential: Low to moderate.

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An eye on AIDS  Vision tests help monitor disease progression

The eyes have been called the window to the soul, but researchers at the School of Medicine are turning to these telltale organs to gain more about the progression of the AIDS virus in the brain. By better understanding the neurological effects of AIDS, scientists hope they can postpone some of the most devastating symptoms of the disease.

Researchers have learned that subtle changes in eye movements of people with various stages of AIDS may provide early evidence of the disease in the brain. While investigators have known for several years that the brain is a primary target of the HIV-infection that causes AIDS, quantitative methods for monitoring insidious changes have not been applied.

At the Medical School, researchers are involved in a unique study of ocularmotor function in HIV-infected people that has yielded clues on early neurologic manifestations of HIV infection. As one of the most complete and comprehensive work of its kind to date, the study focuses on three components of eye movement and looks at a cross-section of individuals at various stages of AIDS disease. The study, one of several taking place as part of the School of Medicine’s AIDS Clinical Trials, is based on the idea that eye movement abnormalities exist at all stages of AIDS disease — from the asymptomatic phase when no signs of illness are apparent to the stage when symptoms are well underway.

"We’re looking for tests that will be sensitive to signs of change in brain function that seem to coincide with the course of disease," says David Clifford, M.D., associate professor of neurology and director of the study. "With such information, we can begin treatment earlier and measure its effectiveness before people begin having symptoms." Eye movement tests can detect even subtle signs of dysfunction because numerous well-defined areas of brain function are involved in moving the eyes. Clifford and his colleagues studied fixation, the ability to fixate on an object, smooth pursuit, the ability to track a target in space; and saccadic performance, the ability to rapidly shift gaze. Results of Clifford’s study appear in the August issue of the journal Annals of Neurology.

"Neuropsychometric tests, such as follow-the-number puzzles and peg board exercises, are tools used to detect brain damage caused by HIV before other disease symptoms appear, but they are not good indicators for early progression of the disease in the brain," Clifford notes. "Numerous areas of brain function are involved in eye movement so the tests are better suited to assessing the insidious onset of disease."

Eye function declines

Clifford and colleague Gary Paige, M.D., Ph.D., now at the University of California at San Diego, studied a cross-section of 72 subjects, 47 of whom tested positive for HIV infection. They included individuals with asymptomatic HIV infection; 16 with AIDS Related Complex; 10 with full-blown AIDS, and an equal number of age-matched, weight-matched, and sex-matched controls. Two hundred patients took part.

In the 20-minute test, subjects completed four different tasks by watching a target displayed on a computer monitor. Using an Eye Trac infrared monitor system, the horizontal eye position was recorded. In the fixation trial, subjects were asked to focus on a target for 30 seconds. While the control group maintained a near-perfect steady gaze, fixation in the HIV-infected subjects with advanced disease, Eye movement in the control and asymptomatic groups shifted less than one degree on either side of the target, while those with AIDS and AIDS dementia shifted from one-to-two times further from the target. Those with AIDS dementia made nearly six times the number of rapid shifts in eye movements (saccades) interrupting fixation as those in the control group.

For the tracking task subjects watched a target move back and forth across the monitor at different speeds, while investigators measured the eye’s range of motion against the target’s range of motion, and the position of the eye in relation to the target. They found that as the target’s speed increased, the AIDS and AIDS dementia subjects fell behind, then jumped ahead of the target, whereas controls followed the target very closely.

Control rapidly diminishes

To measure saccadic eye movements, subjects watched a dot jump across the monitor. In this task, Clifford measured latency — the time difference between when the dot moved and when the eyes moved — and the number of movements it took to get the eye from one point to the next.

"We wanted to know how soon they would turn their eyes after the position of the dot changed," Clifford says. "We found that a predictable targeting of these eyes wasn’t possible even in asymptomatic persons. The unpredictability of the control of movement started early, in the asymptomatic stages of disease."

In this test, the controls moved to within four degrees of the target on their initial saccade while HIV-infected subjects averaged 11 degrees off target. The number of eye movements required to reach the target varied significantly. For example, 1.7 in the control group, 2.9 in the AIDS dementia group.

A more difficult anti-saccade trial required subjects to look at a target for one second, then turn the eyes away from the target. Those with AIDS glanced at the target then moved their eyes the other way. Even the asymptomatic subjects had trouble and it got worse with the severity of HIV infection."

Although decline in ocularmotor function occurs with clinical staging of disease, Clifford says it’s clear that people who develop AIDS dementia have eye movement problems. He plans further testing to learn whether this early decline in ocularmotor function predicts development of AIDS dementia.

Clifford believes it will be several years before researchers are able to pinpoint specific changes that occur during the asymptomatic period of disease. To do that, ocularmotor function tests need to be employed in new drug therapies and monitored. "Not long ago, people died within months of developing an AIDS-defining problem, but now people typically live several years," Clifford says. "We’ve at least quadrupled the lifespan with therapies found in the first decade of this disease. We can delay the complications of AIDS, but we still have a long way to go."

"We can modify lifestyle to prevent infection and, with medications, protect those already infected. Prophylactic treatments for common complications such as pneumonia are curative, and use of anti-virals like AZT (azidothymidine) delay the complications of HIV and prolong life."

Kathleen Carlson
Malaria bug may meet its match

A new strategy for battling the malaria parasite has been devised by Daniel E. Goldberg, M.D., professor of medicine at the School of Medicine. Goldberg's work on aspartic proteases may relieve dependence on mefloquine-type medications by making it possible to fashion drugs that could starve malaria-causing parasites. In theory, any drug that blocks P. falciparum's ability to cleave hemoglobin should shut off its energy pipeline.

"If the organism can't chew up hemoglobin and can't grow, it will die rapidly," Goldberg says. His lab is designing specific peptides that mimic the hemoglobin cleavage site, thus tricking the organism into "thinking" it is cleaving hemoglobin. "These peptides are altered to bind tightly to the malaria parasite and block cleavage," he explains.

The high death rate and the inability of modern medicine to develop a safe and effective vaccine are spurring this search for new drug treatments, Goldberg says. "Ultimately, we would like to see a single pill, maybe one that we can give to a patient before it goes into red blood cells, but I'm not optimistic. There's still some promise for certain vaccines, but the need for new drugs is pressing."

Jim Keeley

Hand surgeon Sidney Blair will speak at cumulative trauma disorder seminar

Hand surgeon Sidney Blair will speak at a cumulative trauma disorder seminar. The seminar will be held Oct. 18-19 at the Ritz-Carlton Hotel. Keynote speaker will be Sidney J. Blair, M.D., chief of hand surgery at Loyola University Medical Center in Chicago.

Cumulative trauma disorder is a problem that can result from repetitive motion of hands, wrists and upper-body movements while using equipment such as computer keyboards, factory tools and electronic checkout scanners. Between 1985 and 1989, the number of cumulative trauma cases reported by workers increased nearly fourfold, causing it to become one of the most reported complaints among workers' compensation claims.

In his presentation, Blair will discuss the medical aspects of the ailments, which is significantly impacting U.S. industry in productivity, profit, health costs and competitive- ness. Other topics to be addressed include prevalence, screening, prevention, treatment, legislation and litigation.

In addition to medical and legal experts, speakers include representatives from the Occupational Safety and Health Administration (OSHA), National Institute for Occupational Safety and Health (NIOSH) and APL- CO.

L. Levy Young, M.D., professor of surgery at the School of Medicine, will chair the event, with Jane A. Rolo, M.D., instructor in surgery, as co-chair. Other Washington University faculty taking part are Philip E. Higgins, M.D., instructor in surgery; and Neil N. Bernstein, J.D., LL.B., professor of law.

Cost of the program is $325 if registration is received by Sept. 17. For further information about the seminar, contact the Office of Continuing Medical Education at the School of Medicine by calling 362-6983.
Liver disease does not progress in patients with hepatitis B who have been treated successfully with interferon and other forms of antiviral therapy, according to research reported in the Archives of Internal Medicine by researchers at the School of Medicine. This is the first long-term study monitoring the liver biopsies of hepatitis B patients who have responded to treatment. Researchers checked viral markers and biochemical signs of the disease in blood over a two-to-seven-year period. Liver biopsies were then done and compared to pre-treatment biopsies. While some inflammatory changes are still present, the disease itself did not progress, says principal investigator Robert F. Perrillo, M.D., professor of medicine and director of gastroenterology at the Veterans Administration Medical Center in St. Louis.

"This is the first liver tissue demonstration that patients who receive interferon for chronic hepatitis B achieve lasting benefit from therapy, with only scant viral particles evident in the liver years later," says Perrillo. "We are optimistic that the treatment does not progress. Rather, we believe that these remaining viral injured liver cells were old, die and be replaced."

Perrillo last year reported the first cure for hepatitis B in 11 patients receiving interferon therapy. Chronic hepatitis B is a serious, debilitating, infectious liver disorder that predisposes to cirrhosis and can be fatal. An estimated 1 million Americans are chronically infected with the hepatitis B virus.

For this latest study, the researchers examined seven patients who had participated in one of three antiviral research studies between 1981 and 1989. All of the patients had tested positive for the hepatitis B virus at least six months prior to enrolling in the initial study and suffered chronic liver disease. Viral replication was halted spontaneously in two patients, and as a result of antiviral therapy in five patients, four of whom had received some type of interferon therapy. Liver function tests also showed the disappearance of hepatitis B as antigens, another indication that the disease is no longer active. Of the five patients involved in the clinical trials, but not responded to treatment, were used for comparison.

Schreiber named first Flance scholar

Matthew Schreiber, a second year medical student at the School of Medicine, has been named the first Flance Medical Scientist Trainee in the school's Medical Scientist Training Program (MSTP).

The newly established fellowship was made possible through a $150,000 gift from the Harry Edison Foundation, an organization devoted to funding postgraduate education in 1949 that supports higher education, social services and medical research.

The scholarship will support Schreiber's MSTP training, where after six years of study he will graduate with a combined M.D. and Ph.D. degree from Oberlin College, Schreiber received a bachelor's degree in psychology and has had extensive undergraduate research experience.

The award is named in honor of I. Jerome Flance, M.D., clinical professor of internal medicine at the School of Medicine. Flance's association with the School of Medicine spans more than 50 years. He received his undergraduate degree from Washington University in 1951, his medical degree from the School of Medicine in 1955, and he has been a member of the School of Medicine faculty since 1942. Washington University's MSTP, which began in 1958, is the largest MSTP in the United States. The National Institutes of Health has funded Washington University's MSTP.

The program offers outstanding medical students an opportunity to train as academic physicians with a background in basic research. M.D./Ph.D. students have graduated from the program and almost all have gone on to careers in academic research institutions. Of the 75 students who have completed their residencies, 65 are full-time faculty members. Twenty-six of those individuals are professors or associate professors, 32 are assistant professors and seven are instructors.

$752,264 to benefit doctoral students

The National Institutes of Health has awarded training grants totaling $752,264 to the Division of Biology and Biological Sciences at the School of Medicine.

The grants will provide tuition and stipends to 32 doctoral students studying in the areas of cell and molecular biology and biochemistry.

The program will provide financial support during the students' first two years, a period during which they are encouraged to explore as they decide on specific research projects. Each student will be provided one or two rotations in at least three different laboratories before choosing a specialized area.

Principal investigators of the grants are Philip Stahl, Ph.D., director of the division of biology and biochemistry, and Jonathan B. Cohen, Ph.D., chairman of the division. The division trains graduate students and postdoctoral fellows in both basic and applied research in the areas of neuroscience, immunology and molecular biology.

The program is important because it allows students to become actively involved in what is going on in science, according to Pierce, a professor of pathology and molecular microbiology. At the end of the program the teachers together develop a curriculum exercise for their class which is evaluated and reviewed before being used.

The curriculum exercise is important because high school texts are out of date, some as much as 15 years behind the present state of immunology, Pierce says. "This exercise allows teachers access to current research and allows them and their students to reach beyond normal classroom study."

Working in the laboratory of David D. Chaplin, M.D., Ph.D., assistant professor of molecular microbiology, medicine and genetics, Cohen helped researchers mapping the genetic area responsible for the antimicrobial compatibility complex. "MHC helps scientists understand the cause of certain diseases."

"My formal education was over before most of these advancements were dreamed of," says Cohen of the research. "This was a way to catch up and refresh my acquaintance with research and hopefully bring back something to my high school classes. Few people see science as it's really done, and it's been a wonderful opportunity to do just that."

Scholarships worth $1 million were awarded to 24 students and $564,192 to fund 24 students and 10 postdoctoral fellows. Twenty-six of those individuals are professors or associate professors. Twenty-six of those individuals are professors or associate professors. Twenty-six of those individuals are professors or associate professors.

Applications are scheduled to be available by Jan. 15.

Deadline nears for cancer research grants

Application deadline is Sept. 15 for research awards from the American Cancer Society's institutional research grant at the University.

The award provides initial research support for projects that have no other available funding and that are relevant, supportive of, or make a contribution to clinical or laboratory aspects of cancer. Only a small number of assistant professors are eligible to apply.

Applications are scheduled to be reviewed by Oct. 15 and funds will be awarded by Nov. 1. Awards are limited to $35,000 for one year; renewal is not permitted. For application forms and guidelines, contact Karen M. Broderick, M.D., chairman of the Washington University American Cancer Society Institutional Research Grant Committee, at the same number.
**SPORTS**

Young, but talented men's soccer team shows promise

With eight NCAA tournament trips and three national runner-up finishes in the last two years, the Washington University men's soccer team has proven it can appeal to a legions of postseason contender on an annual basis. This year's edition, a relatively young squad, will be the last two seniors might be a year away from earning consensus first-team All American honors and being to land on a top 10 national team. Also returning as a senior strong safety John Stefanos was an All-Conference first team. With all four starters returning, the heart and soul of the defense, led by its experienced coach. "The winning attitude and confidence which has developed over the years has created a very positive and competitive team," he said. "The team is ready to claim yet another NCAA berth, and Matt Davis (Tucson, Ariz.) (2 g, 2 a)."

At midfield, 6-foot, 180-pound Kyle Hoehn (Columbus, Ohio) returns after enjoying a solid rookie season. A second team all-conference pick, Hoehn scored five goals and five assists. Junior midfielder and two-year starter Matt Sullivan (Florissant, Mo.) is back, after having scored three goals and added 12 assists in 1990. In the backfield, senior Steve Pasko (Rutland, N.J.) will anchor the defense. "This team has the most depth in our history," he said. Hoehn finished the season with a winning label. For the first time since 1979, Washington University entered the NCAA Tournament. The Bears are hopeful that Jerry Blocher (Philadelphia, Pa.), who played with the Danubia Soccer Club, will be on hand to claim yet another NCAA berth, and Matt Davis (Tucson, Ariz.) (2 g, 2 a).

Volleyball Bears aim for third-straight NCAA final showing

Two years ago, the Washington University women's volleyball team reached the NCAA Division III title with a convincing win over Hope College. This year's team has the same dream, but lost a heartbreaking 3-2 decision to UC San Diego. Having seen both sides of the mountain, head coach Teri Clemens and her Bear squad are eager to return to the summit in 1991. Despite the graduation of consensus national player of the year Kathy Bennett, first-team All-America honoree Dianne Sial, and all-UCLA selection Dawn Chamberlin, the Red and Green appear to have the talent to make the claim.

Key on the list of returnees is first-team All-America setter Kelley Meier (St. Louis, Mo.). After a two- year apprenticeship behind two-time national player of the year Lori Nishikawa, Meier stepped in last season and added new dimensions to the Bears' attack. At 6-foot-2-inches tall, Meier is a force offensively (144 kills, .338 hitting percentage in 1990), defensively (234 digs, 51 stuff blocks), and while serving (a conference-high 11 aces). Another player who blossomed in 1990 was Kyle Hightower (Magnolia, N.J.), a preseason All-American. He has started 34 of the Bears' games, missing two more with an injury. Also returning as a starter is senior Jeff Doyle (Arnold, Mo.) He was the only freshman starter back in 1990.

For the first time since 1987, Washington University women's volleyball team begins a season with a winning label. After toiling through 11 consecutive losing campaigns, Washington University reversed its fortunes in 1990, posting a 14-12 record with a conference mark of 6-5. The Bears snapped their longest skid of sub-five seasons and became one of only seven schools in NCAA history to win seven or more games in a year.

The quintet's honors and accomplishments are noteworthy. Two are preseason All-Americans, three earned all-conference recognition last year, and five were recognized by their teammates this past winter as team leaders.

Senior backcourt Stacey Hightower (Magnolia, N.J.), a preseason All-American and team all-conference pick and team captain, heads the list of senior returnees. He notched five interceptions and 41 solo tackles last year, and also finished 1-3rd among Division III's punt returners last season with a 14.6 yards per return average. Another preseason All-American pick and a second-team All-Atlantic choice, junior free safety Michael Lauber (Vandala, Ohio), returns. Lauber led the squad with six interceptions and recorded 93 tackles third highest on the team.

Although Hightower and Lauber earned much of the praise in the secondary, senior captains Rod Shelton (Penkellville, N.J.), and David Snyderman (Freehold, N.J.), played a key role in the defensive success. Shelton, earning first team all-league honors, had three interceptions and 55 tackles. Snyderman rounded out the starting unit with two interceptions and 79 tackles. The Bears' four starting secondary players combined for 16 of the team's school-record 23 interceptions in 1990.

"What has happened to our secondary over the last few years is very indicative of our team growth," Kerbsmehl says. "They have really matured and become a close-knit family. Having four of our five captains come from this group says a lot about what we mean to our team."

At the three linebacker spots - the one area where the Bears are loaded with depth - two of three starters return, led by junior Jeff Colman (Edmond, Okla.); a 1990 preseason all-American. Cooper led the Bears in defensive statistics, racking up 94 total tackles and five sacks. The special teams, which Kerbsmehl links to his defense, are surrounded with plenty of question marks. The primary area of concern lies in replacing All-American punter Eric Nyhus and all-conference place-kicker Jeff Cronisch. However, the Bears' top two kick returners are back. One of the returnees, punt return specialist Stacey Hightower, was mentioned previously. The other speedster, senior D.L. "Turk" Fuhrmann (Frisorianti, Mo.), returns kickoffs for the Bears. Last year he averaged 22.3 yards per return, including a season-long 72-yarder. "Warfield is also one of the key returners in the Bear offense. Besides the five returning starters on the offensive line, he and senior fullback Paul Doyle (Clarksburg, W.Va.), are the Bears' lone returning regulars at the skill positions. Both saw extensive action and started starring assignments with other players.

Although several questions remain unanswered about who is going to throw, carry and catch the ball, the Bears do have a solid, experienced offensive line to build around. All five starters return, led by 270-pound offensive tackle Jeff Doyle (Arnold, Mo.) He was the only freshman starter last year's all-AUAA first team.

Not yet factored into this year's outlook is a freshman class of approximately 30 players. A few of these newcomers could move into key reserve roles or even a starting position. Overall, Kerbsmehl said he was pleased with his 1991 recruiting group, which should put this year's roster size at roughly 90. "You win with good athletes, and I think that best describes this year's recruiting class - a good group of athletes," Kerbsmehl says.

With the graduation of Bob Winklemann and Paul Wright, the Bears are hopeful that Jerry Blocher ('89) will be back, after having scored three touchdowns last year, and also finishing third highest on the team. Another preseason All-American, Cooper led the Bears in defensive statistics, racking up 94 total tackles and five sacks. The special teams, which Kerbsmehl links to his defense, are surrounded with plenty of question marks. The primary area of concern lies in replacing All-American punter Eric Nyhus and all-conference place-kicker Jeff Cronisch. However, the Bears' top two kick returners are back. One of the returnees, punt return specialist Stacey Hightower, was mentioned previously. The other speedster, senior D.L. "Turk" Fuhrmann (Frisorianti, Mo.), returns kickoffs for the Bears. Last year he averaged 22.3 yards per return, including a season-long 72-yarder. "Warfield is also one of the key returners in the Bear offense. Besides the five returning starters on the offensive line, he and senior fullback Paul Doyle (Clarksburg, W.Va.), are the Bears' lone returning regulars at the skill positions. Both saw extensive action and started starring assignments with other players.

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CALENDAR

Wednesday, Sept. 4

for $4; both Sunday films can be seen for $4.

Presents "Loves of A Blonde," a Czechoslovakian film with English subtitles. Room 100 Brown Hall. $3.

Projects "Highlander." (Also Aug. 30, same times, and Sept. 1 at 9 p.m.) Room 100 Brown Hall. $3. For more info., call 935-5505.

"New Faculty Works." Through Sept. 15. Exhibit will feature works by eight new fine arts faculty members and will include photography, sculpture, painting, graphic design, metal-smithing, drawing, printing, and multimedia works. Bixby Gallery, Busch Hall. Exhibit Hours: 10 a.m.-1 p.m. weekdays. For more info., call 935-5465.

"The Scientific Journal Landmark Articles." Through Sept. 6. Special Collections, Old South. Exhibit Hours 9:30-4, 3-7 p.m. weekdays. For more info., call 935-5478.

"The Tooth is a Sensible Bone." Through Aug. Against Clean, a photography book and Rare Books Division, Medical Library, 660 S. Euclid Ave. Exhibition Hours: 9-5 p.m. weekdays. 8:30-6:30 p.m. Wednesdays; 1-3 p.m. Thursday. Sponsoring the Exhibit: $400-522.

"An American Collection: Paintings and Sculpture from the National Academy of Design." Opening reception: 7 p.m., Sept. 6. Reception Hours: 5:30-7 p.m. For more info., call 935-5466.

LaGuardia, WU Dept. of Biology. Room 322 Science Bldg. "Genetic Analysis of Tomato Yellow 5XHIBITIONS

"An exhibit displaying the whole spectrum of visual arts, from video to metal-smelting, will be on display at Washington University's Bixby Gallery in Bixby Hall through Sept. 15. The exhibit, titled "New Faculty Works," features works by eight new fine arts faculty members and will include photography, sculpture, painting, graphic design, metal-smithing, drawing, printing, and multimedia works. John Baltuskins, lecturer in art, received his master's degree in fine arts from Washington University in 1974. The Boston native, who is a metalsmith, has lived in St. Louis since then and has taught at both the University and elsewhere in St. Louis over the past 17 years.

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