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Employee appreciation centerpiece of Staff Day

Chancellor Mark S. Wrighton threw himself into his job at the recent Staff Day softball tournament. In Washington, the country's highest-ranking pitcher, Wrighton demonstrated his leadership mettle when he stepped fearlessly into the path of a lamb thrown from right field to home plate by Photo Services Director Joe Angeles. The softball took a hard skip in the dirt and bounced off the chancellor's chest. The runner scored.

"This was the most humiliating day of my life," Wrighton later joked as he presented the trophy to the winning team from Central Stores. "We snatched defeat from the jaws of victory."

The vigorous — and good-natured — game was just one of many activities the staff enjoyed May 20 as part of the annual festivities honoring jobs well-done. The day started with the Staff Service Awards and Recognition Ceremony in Edison Theatre. Gloria W. White, vice chancellor for human resources, opened the ceremony by standing in the standing-room-only crowd in a heartfelt cheer:

"We are the staff without whom Washington University would be nothing at all!"

Wrighton echoed this sentiment in his address to the group. "The staff plays a critical role in the life and success of the University," Wrighton said, noting as an example the staff's outstanding efforts during April. Welcome. "The staff really turned out to assist in recruiting a great group of people. We had a 45 percent increase in applications for admission over the past two years. That doesn't just happen by accident. It required an enormous effort on the part of all of you."

Wrighton then helped the vice chancellors honor employees who have served for 10, 15, 20 and 26 years. (See Staff Day story on page 6.)

Jane Alexander asks Class of 1996: Which millennium will you choose?

On May 17, Jane Alexander, chairman of the National Endowment for the Arts (NEA), presented the 115th Commencement address at Washington University. She also received an honorary doctor of fine arts degree. The following are excerpts from her address:

Introduction

"It gives me great pleasure to be with you today at this rite of passage for the Class of 1996. I am always pleased to be asked to give a commencement address, but I think particularly so at this most prestigious University, where I am honored by an honorary doctor of fine arts. I envy those of you graduates who've spent these past several years on the Hilltop. The historical buildings, the Gothic architecture, Forest Park, the Medical Campus, the Edison Theatre — which the NEA proudly helped support — all of it has given you a rich and a pleasant setting in which to learn, to live in a community, and to discover your own skills and talents."

Art and humanity

"In the dawn of the human community, it took about one hour to make a hole out of a piece of ivory or an animal's tooth. Randall White of New York University suggests that primitive people would never have undertaken such a time-consuming process unless personal adornment was vital to human identity. White says: 'We have this image of art being the result of people having a lot of excess time. But that's totally contrary to what we see.

For these people, a long time ago, art was a necessity."

At the rite of passage, "You are in a facility that has a historic room with walls. And now we've learned that music and art have accompanied the viewing of these cave paintings, sort of a multimedia event of the time. Today, we've discovered tools that can send those images out to millions over the wire of the Internet."

"Have we been making art? All of our lives."

In this issue...

Focus on zinc

Neurologists identify new cause of brain damage after cardiac arrest

A striking image

Michael J. Miller, Ph.D., learns from the best in the many fields and puts that knowledge into innovative applications to benefit society

Ozone Action Days

University community to work together to improve region's air quality
Medical Update

Zinc damages brain after cardiac arrest

About half of those who survive cardiac arrest leave the hospital with symptoms of brain damage. Now School of Medicine scientists have found that zinc is a major culprit. They have devised a way to prevent this damage.
Miller's expertise evokes striking images

In his doctoral work, Miller was immersed in the mathematics of point processes, where he sought such things as action potentials in the nervous system or tiny packets of light, called photons, in astronomical imaging. He came across the classic book, “Random Point Processes,” written by Donald L. Snyder, Ph.D., then chair of the Washington University Department of Electrical Engineering and now director of the Biomedical Computer Laboratory at the School of Medicine. Miller says, “I read that book and used it heavily for my thesis work,” Miller says. “I thought, ‘Gosh, wouldn’t it be great if I could work with Don Snyder?’ So I applied for a postdoctoral appointment at Washington University and came here in the fall of 1983.”

In his engineering career, he denies knowing what he’s about to do next. “I’ve always loved mathematics,” Miller says. “But I wasn’t one of those smart kids who would become a mathematician,” Miller says. “I was always more interested in doing things with people.” That’s why he chose biomed engineering, “By the time I was looking to go to graduate school, it was clear to me that I wanted to try to do something that would make a contribution to people. That’s why I chose biomedical engineering,”

Miller is director of the Biomedical Engineering and Applied Science’s first center — and it is clear that he is connected, in one way or another, with everyone. The Nov. 6, 1995, center opening, which featured a two-hour panel discussion, represented a hallmark of the center’s work and included the following: engineering and illustrated the modular operando of the highly competitive, international center, Ulf Grenander, Ph.D., professor of mathematics at Brown University, the Massachusetts Institute of Technology, the University of Utah, the University of Texas, the University of Michigan, and the University of Texas, Austin, the University of Texas, El Paso, and Stony Brook University — to delineate a new, adaptable theory of how computers can be constructed to recognize and describe objects in cluttered scenes.

While the Army sees obvious advantages for defense, the breadth of the research at the center will encompass not only military settings but also biological and physiological structures on planetary surfaces, to name a few. It is typical for Miller, who has researched systems as diverse as radar, cellular structures and brain, to be influenced by limitations. “I've always loved mathematics! At the crux of computer image-understanding research is mathematics, a discipline Miller reveres. Two of the researchers working through the center, Ulf Grenander, Ph.D., professor of mathematics at Brown University, and David Mumford, Ph.D., professor of mathematics at Harvard University, are well known — Grenander as the father of metric pattern theory and Mumford, a Fields Medalist (the equivalent of a Nobel in mathematics), as a breakthrough computer vision and algorithm specialist. I've always loved mathematics, but I wasn't smart enough to become a mathematician,” Miller says. “I was always more interested in doing things with people.” That’s why he chose biomed engineering, “By the time I was looking to go to graduate school, it was clear to me that I wanted to try to do something that would make a contribution to people. That’s why I chose biomedical engineering,”

Miller’s wish led to his professorship at Washington University and fruitful collaborations with Snyder and others. “At the time, I had a perception of his potential,” Snyder says. “Today, he’s only partway there. Just watch — there’s no way to stop him. Mike is one of those individuals who combines a wide-ranging curiosity with creativity and an understanding of fundamentals in science, mathematics and engineering. Top that off with someone who seems to have unlimited energy to move things forward, and you have someone who produces one important result after another in a variety of disciplines.” Working with Snyder and Lewis J. Thomas Jr., M.D., director of the Biomedical Computer Laboratory at the School of Medicine, Miller extended his intellectual reach to encompass the basic algorithms that reconstruct images from emission tomography, which measures photons that are products from radioactive tracer decay to give doctors a reading on metabolic and physiological functions. From 1983-87, Miller worked on a variety of medical imaging projects with Snyder, Thomas and others, leading to the publication of several important biomedical engineering papers. While he was on sabbatical in 1989-90 at Boston University, Miller met Grenander, whose work and theories would become the foundation for much of Miller’s subsequent work. During that year, the two teamed on a parallel computer. “The measurement of brain shapes in schizophrenia may lead to a breakthrough in our understanding of this disease, perhaps allowing us to detect it and treat it before its disabling symptoms appear,” says Csernansky, a big fan of Miller’s work.

Miller’s boardroom has reached far beyond the research field. He is a popular teacher who has a special rapport with undergraduates and a loyal, close relationship with graduate students. “I love undergraduate and graduate students, and they tend to like me,” he says. “I’m especially fond of ‘Signals and Systems,’ a junior-level course that’s challenging, but lots of fun. I’ve been very fortunate to have wonderful students.”

Miller also says he feels fortunate that his wife, Elizabeth Patton, Ph.D., associate dean at the College of Arts and Sciences and director of the college’s Focus Program, is back home in St. Louis. They married in 1990. He is also a member of the National Academy of Sciences and the American Academy of Arts and Sciences. Miller is stepfather to Patton’s daughter Maggie, an 18-year-old who loves acting. Maggie often can be found, Miller laughs, with dramatics around Eden Theatre.

While it may seem that Miller has had a master plan in his engineering career, he denies knowing what he’s about to do next. “From the start, nothing was ever apparent to me,” he says. “I never knew what I was going to do, and still don’t know. I hope that never stops because it’s too much fun not knowing.”

— Tony Fitzpatrick
Three from University elected fellows of AAAS

T three individuals associated with Washington University are among 159 new fellows and 26 foreign honorary fellows elected to the American Academy of Arts and Sciences (AAAS) for their distinguished contributions to science, scholarship, public affairs and the arts.

Van Duyon served as the first female U.S. poet laureate from 1992-93. In April 1991, she won the Pulitzer Prize for poetry for her book "Near Changes." She was the Visiting Hurst Professor of English in 1987 and served as a visiting professor in the graduate Writing Program in 1983 and 1985. She lectured in English in University College and English and Sciences from 1950 to 1967.

Van Duyon delivered the University's Commencement address in 1990. She has published nine volumes of poetry. She was named Professor of English and chief operating officer in 1993 and was recently appointed to his position two years later.

She joined the University in 1990, he was named President and chief operating officer and served in that capacity for 14 years. I pkison is known for his work in the history of skepticism, which revolutionized scholarship on the origins of modern philosophy and science. He is now an adjunct professor of history and philosophy at the University of California-Los Angeles.

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Staff Day ceremony pays tribute to employees for years of service

Employees who have worked at Washington University for 10, 15, 20 and 26 years received service awards at a ceremony in Edison Theatre today. Employees with 26 years of service received a watch with the Washington University seal on the face. Employees who have earned the 10 years of service received a silver Cross pen and pen case.

The following are the award recipients:

In the fine arts, Laura Wrenn, a secretary to the Board of Trustees; Anna Wirtel was ecstatic and a bit shocked. "It just sat there for a moment," she said. "I can't believe it. It feels great. This will be a mini-trip for me and my husband. We already have the baby sitter." Ane Pretten, director of employee relations and chair of the Staff Day Committee, was happy with the event. "It was a combined effort on the part of the committee that made it a success," she said. Pretten added that she would be happy to consider suggestions for future Staff Day events.

White closed the day by again praising the staff for its hard work. "This gives the University the opportunity to show the staff how important it is," she said.
**University supporting ozone reduction efforts**

The Washington University community is being asked to meet the serious challenge of reducing ozone in the St. Louis atmosphere this summer and fall. Students and employees are urged to consider a host of ways, individually and collectively, to improve the region's air quality — from car pooling to avoiding the use of charcoal fritter fluids. The theme of the University's "We Care About Clean Air." "

In May, Chancellor Mark S. Wrighton, Ph.D., announced the formation of a committee to develop a business plan to join the University in cooperation with the St. Louis Regional Clean Air Partnership (SLRCAP), which is a coalition of industrial, business, government and other organizations.

The committee is made up of faculty, staff and students from the Hilltop and Medical campuses. The committee also planned a day to alert the University community when Ozone Action Days will be in effect. These are extremely hot, humid days conducive to high ground-level ozone, a harmful pollutant that can cause health problems, especially for large businesses, Turner said. "This summer, Washington University will begin a series of steps to prepare the community for Ozone Action Days. A flag with a special logo designating a "High Ozone" alert will fly on the Brookings Hall flagpole one day before Action Days; the flag will also be raised at the principal parking facilities on the Medical Campus.

Hotlines will be distributed the University community displaying the logo and slogan, Faculty, staff and students with computer access receive an e-mail message relaying the alert. The message will advise them to look at the University's homepage on the World Wide Web. Hotlines for suggestions to help reduce ozone pollution.

Washington University is the most familiar with ozone as the diffuse layer of molecules in the Earth's upper atmosphere that plays a beneficial role in filtering out harmful solar radiation. The "ozone layer" has been widely reported as being depleted during the past 20 years. Great interest in the subject, on the other hand, is a major contributor to smog.

Ozone at this level is an irritating gas forming from nitrogen oxide in sunlight. Industrial and consumer activities, most involving combustion, are behind the formation of ground-level ozone, and sunlight and temperature levels are high in atmospheric levels to the damaging point. The ozone "season" in St. Louis runs from April through October. To minimize all of the problem occurring between May and September. Amendments to the Clean Air Act of 1990 established five categories of nonattainment. He said the impact of ozone action days is particularly severe; and extreme. St. Louis is currently classified as moderate nonattainment, based on exceedances above the health standard during the past two years indicate that St. Louis is on the brink of being reclassified from moderate to serious nonattainment. He said the impact of high ozone levels extends beyond personal health to economic concerns of the St. Louis region.

"Restrictions imposed by the EPA could result in sanctions. And with the St. Louis Regional Clean Air Partnership (SLRCAP), which is a coalition of industry, government and private businesses from locating in the area."

According to Turner, monitoring data indicate that ozone in the St. Louis atmosphere this summer and fall will be in the range of 70 to 100 parts per billion. Turner said, "This is a very high level of ozone pollution. It's a very unhealthy level."

"It benefits all of us to meet the ozone action standards both for quality of life and a thriving economic climate. As such, it's important from our perspective.

The Washington University community is the largest contributor to smog.

"We want to involve as many people on the campus as possible in school campuses as we possibly can to meet this problem head-on," said White. "Already, we are taking steps to reduce ozone. We are not allowing cars into the University fleet and the campus police cars will gas up the day before an Action Day. There will be a standing order that all University cars and vans will not be sitting and idling. Also, the fleet service can monitor for difference in our air quality."

"Well, there may be some things wrong with government, but there is really an awful lot of that is right, too. And that tends to be obscured by the rhetoric today. Let me tell you about the art endowment, which was created in 1965 to help make the arts accessible to all people in America and to attract more money for the arts from the private sector, and it's been immensely successful in doing so. For every dollar we award today, we leverage at least 12 other dollars from public and private sources. And we've helped sustain thousands of artists and arts institutions in every pocket of America, including those here in St. Louis as well."

Entering the 'real world'

"What does this have to do with those of you graduating today? Whatever the future may hold for you — a career as a banker or a lawyer, an engineer or a doctor, a politician or a playwright — you have been schooled here at Washington University to be creative thinkers. Carry that creativity and the creativity that the artists give you wherever you go. They will affect how you think and act and respond to others — children, family, friends, co-workers and acquaintances. I contend that the arts will make you better people, more compassionate and more tolerant and understanding. The arts demonstrate most clearly our interconnectedness, our common human nature. They speak to what we as a nation will be looking back at the 20th century, yet not really the 20th. In 2000, a midpoint in people's minds, a time of assessment. Not quite the 21st century, yet not really the 20th. In 2000, we as a nation will be looking back at what we've done, the decisions we made just as we will try to find ways to move forward."

"Lastly, care about your fellow human beings. It is not good enough when we step over the ill and destitute in the street; it is not good enough if our child goes to bed hungry or if our child uneducated. It is not enough when we exclude anyone because they look differently or talk differently. An indignity excludes anyone because they look different. It is not good enough when we step over the ill and destitute in the street; it is not good enough if our child goes to bed hungry or if our child uneducated. It is not enough when we exclude anyone because they look differently or talk differently. An indignity.

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Robert Wiltenburg named dean of University College

Robert Wiltenburg, Ph.D., director of the Summer School, has been named dean of University College in Arts and Sciences, effective July 1. Wiltenburg succeeds Wayne Fidler, Ph.D., who has been director of the office since it was established five years ago. Wiltenburg has been director of the Summer School and associate dean in University College in the spring of 1995. He will continue to serve as Summer School director until arrangement is found.

In December 1994, Wiltenburg re­ceived the Governor's Award for Excellence in Teaching from Missouri's Coordi­nation for Higher Education. The awards are given annually to an outstanding teacher from each of about 50 public and independent colleges and universities in Missouri.

Wiltenburg earned a bachelor's degree in English in 1968 from Cornell University in Ithaca, N.Y. He went on to earn a master's degree in 1974 and a doctorate in 1982, both in English and both from the University of Rochester in New York.

He is a member of the Modern Lan­guage Association, the National Council of Teachers of English, the Council of Writing Program Administrators, the Milton Society of America and the John Donne Society.

Wiltenburg's academic specialties include Renaissance and 17th-century literature, as well as papers on works by Donne and Jonson and Self-Love. The Subtle Maze of All and "Collective Wisdom: The Use of Collective Nouns," which he co-authored with Sandra J. Stang.

For the Record

Obituaries

Edward MacCordy, retired associate vice chancellor

Edward L. MacCordy, 69, retired associate vice chancellor for research at Washington University, died Wednesday, May 8, 1996, of cancer at Barnes West County Hospital.

MacCordy joined the University in 1967 as administrative officer of Washington University's Computer Laborato­ries. He also served as patent coordinator for the University.

He was appointed vice chancellor for research in 1976 and served in that post until his retire­ment at the end of 1995.

In 1971, he established the University's technology-transfer program to bring inventions out of the research laboratory and into the marketplace. In 1982, he helped craft the Washington University/Monash University Medical Research Agreement, the largest collaborative research agreement between a U.S. company and a U.S. institu­tion of higher learning.

MacCordy was active in the National Council of University Technology Man­agers, serving as vice president in 1983, president-elect in 1984 and president in 1985.

He was also active in the Association of University Technology Managers (AUTM), serving as president-elect in 1989, president in 1990 and past pres­i­dent in 1991. AUTM honored MacCordy last February with the Baye-Dole Award for lifetime achievement and for his contributions to the licensing profession. MacCordy was appointed by the U.S. secretary of commerce to the Advisory Commission on Patent Law Reform and was a longtime member of the Licensing Executive Society.

He served in various capacities in the Civil Engineer Corps of the U.S. Navy before retiring and joining the University.

He earned a bachelor's degree in civil engineering in 1956 from the University of Medford, Mass., and a master's degree in engineering from the College of Engineering at the Massachusetts Institute of Technology.

MacCordy lived in Ballwin, Mo. Among his survivors: Dorothy MacCordy; three daughters, Rebecca Brummer of Sacramento, Calif., and Leslie and Lynne MacCordy; both of Ballwin; a son, Gregory MacCordy of Westport, Conn.; and two grandchildren.

Memorial contributions may be made to the American Cancer Society, 4207 Lindell Blvd., St. Louis, MO 63108.
Assistant Publications Editor 
402218. Office of Public Affairs. Requirements: bachelor's degree in computer sciences or related experience; ability to work under pressure. Application required.

Assistant Supervisor Lead IBC 
960825-R. Programmer Analyst 960825-R. Requirements: graduate degree; Ph.D. in a liberal arts discipline preferred; appreciation for and comprehensive understanding of liberal arts education; excellent written and oral communication skills; ability to effectively work with students, parents, faculty and other university officials; organizational skills; demon­strated project management and implementation skills; high degree of initiative and flexibility, ability to work effectively under pressure. Application required.

Coordinator for Information Technology 
960524. School of Social Work. Requirements: bachelor's degree in computer sciences or related experience; ability to work under pressure. Application required.

Director of Recreational Athletics 
960218. Office of School of Physical Education. Requirements: bachelor's degree in any business or related field. Application required.

Director of Women's Athletics 
960749-R. Office of the Network Resources. Requirements: preferable experience in an academic research environment; two or more years experience in programming for students in an academic research environment. Responsibilities include developing and main­taining the major computing resources; developing software for data management; providing system and network support; and analyzing the hardware and soft­ware needs of the unit.

Submission of Questions: The following is a partial list of questions submitted to the Office of the Network Resources. Employees who are interested in submitting a question for consideration should phone the Network Resources office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, MO 63101. Please note that the network school does not discuss salary information for vacancies, and the office does not discuss locational differences involving depart­ments.

Assistant Professor of Psychology 
960789-R. Psychology. Requirements: master's degree in psychology; three years experience preferred. Responsibilities include develop­ment of programs to enter and manage large computer databases; performing Arcova and other multimedia techn­iques; performing Life Table analysis; and other survival analytic tech­niques; and performing multiple simulations for data verifica­tion.

Assistant Professor of Business 
960789-R. Business. Requirements: master's degree in business administration; three years experience preferred. Responsibilities include develop­ing and maintaining the major computing resources; developing software for data management; providing system and network support; and analyzing the hardware and soft­ware needs of the unit.

Associate Professor of Business 
960789-R. Business. Requirements: master's degree; Ph.D. in business administration; three years experience preferred. Responsibilities include develop­ing and maintaining the major computing resources; developing software for data management; providing system and network support; and analyzing the hardware and soft­ware needs of the unit.

Assistant Professor of Business 
960789-R. Business. Requirements: master's degree; Ph.D. in business administration; three years experience preferred. Responsibilities include develop­ing and maintaining the major computing resources; developing software for data management; providing system and network support; and analyzing the hardware and soft­ware needs of the unit.

Assistant Professor of Business 
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