Professor receives $29.7 million grant for genome project

Robert H. Waterston, M.D., Ph.D., acting chairman and professor of genetics at the School of Medicine, has received a $29.7 million grant to continue his work in the human genome project.

The five-year award comes from the National Institutes of Health's Center for Human Genome Research. Waterston, who also is an associate professor of anatomy and neurobiology, has played a leading role in the human genome project, which seeks to decipher the genetic makeup of humans and help identify individuals at risk for inherited genes that may cause them to disease.

The grant will allow Waterston and his co-workers to contribute to completing the genetic sequence of the yeast S. cerevisiae. The yeast project is a model for the larger effort to map and sequence the entire human genome.

The nematode project is a model for the largest effort to map and sequence the entire human genome. Waterston's laboratory is collaborating with scientists John Sulston and Alan Coulson at the Medical Research Council Laboratory of Molecular Biology in Cambridge, England. Washington University scientists working with Waterston on the project include Richard Wilson, Ph.D., LaDeana Hillier, Philip Cress, Ph.D., Mark Johnston, Ph.D., Eric Green, M.D., Patrick Tamke, Ph.D., and Mark Vaudin, Ph.D.

The grant also will allow Waterston and his co-workers to contribute to completing the genetic sequence of the yeast S. cerevisiae.

"There is a great deal of similarity in the genes of humans and yeast and genes of humans and nematodes," Waterston says. "In many cases, it has proven valuable to learn about the function of human genes through studies of the equivalent genes in nematodes or yeast. Understanding the biology of these organisms will also lead to better comprehension of human biology.

Waterston's laboratory also will initiate a project to sequence the DNA in human genes. Initially, researchers will focus on a region of chromosome 16, which harbors the gene for polygenic kidney disease.

Finally, the grant will allow Waterston to develop software that will be able to speed DNA sequencing. Currently, Waterston's laboratory is developing a technology to decipher the genetic makeup of humans and help identify individuals at risk for inherited genes that may cause them to disease.

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Star wars technology: Medical center's one-of-a-kind accelerator to cut costs of PET imaging

Interdisciplinary approach: Richard J. Scaldini's past intellectual pursuits influence his business management style

Providing relief: Washington University to assist employees displaced by the flood through interest-free loans, volunteer help

In One-on-one Faculty volunteer as mentors, show gifted students world of research

Damon Vincent didn't finish high school — not because he was struggling academically, but because he wasn't being challenged enough.

Today, Vincent is a junior majoring in chemical engineering and biology at Washington University. He credits the George Engelmann Mathematics and Science Institute, not only with bringing him to the University, but also for redesigning his life direction.

As a high school student, Vincent participated in two institute programs — Engelmann I and II — in the summers after his sophomore and junior years. The experience awakened him to challenges that he wasn't finding in high school and, at the end of his junior year, he decided to aim for college instead.

The Engelmann institute encourages bright young people to pursue careers in science, math and technology by pairing them with University scientists to work on intensive research problems.

Institute spotlights Harlem Renaissance

If members of the National Alliance of Black School Educators (NABSE) have their way, youth throughout the U.S. will know the significance of the Harlem Renaissance in African-American culture. To increase awareness about the Harlem Renaissance, NABSE recently sponsored a three-week institute at WohI Center for 35 principals, teachers, curriculum developers and others from schools across the country.

The institute, the first of its kind devoted to the period, was titled "The African-American Roots of American Culture: The Harlem Renaissance." The institute participants stayed in the Park House residence hall.

Scholars define the Harlem Renaissance at the first attempt by African-Americans to create an ideal urban community and a self-determining vision of the race by fusing art, culture and politics. But the period in the 1920s highlighted "so many areas of our culture besides jazz," said Mable Smith, chair of NABSE's Afro-American Studies and professor of English, served as co-director, along with Linda Riches, unit director of the Law and Citizenship Education Unit (LACE) of the
to smaller research and clinical institutions, could cut the cost of PET examinations by the ratio of medical staff to beds, in addition to reducing the ratio of medical staff to beds, in addition to reducing the number of medical staff needed to perform the scans. The accelerator is the only one of its kind in the world. It produces isotopes for positron emission tomography (PET), a type of medical scan used to study functions of the brain, heart and other areas of the body. It was recently installed at Washington University's Mallinckrodt Institute of Radiology. The device is the first and only alternative to the massive and costly machines called cyclotrons that have been used to make medical isotopes since the early 1960s. Because the new accelerator is much cheaper to install and operate than a cyclotron, it could cut the cost of PET examinations by 25 percent and make PET more accessible to smaller research and clinical institutions, said Ronald Evans, M.D., professor and head of the Department of Radiology.

The 10-foot-long machine applies technology originally designed for the "Star Wars" defense system. It was developed by a Boston-area company called Science Research Laboratory (SRL) Inc. Over the course of development, SRL collaborated with Michael Welch, Ph.D., professor of radiation and chief of the Division of Radiation Sciences, to define the machine's parameters and to develop the necessary target for radioisotope production. Federal agencies have awarded grants totaling more than $3.3 million, primarily came from the Strategic Defense Initiative Organization (SAO), which will be held by Jack Ladenson, Ph.D., professor of pathology and head of the Department of Pathology. The accelerator was designed by Mallinckrodt Institute's contributions to PET technology. In the early 1970s, a team of Washington University investigators led by Michel T. Ter-Pogossian, Ph.D., professor of radiation sciences, designed the first PET scanner. In addition, the medical center was the first medical facility in the United States to install a cyclotron. Installation of a second cyclotron in the late 1970s made the medical center the only medical facility to house two cyclotrons. Clinical studies conducted here and elsewhere with PET have led to a better understanding of memory, language, heart function and diseases such as cancer and Alzheimer's.

Currently, about 130 institutions in the world conduct PET research, Welch said. But for many, PET is not an option, largely because of the high cost of installing and operating cyclotrons, he explained. The new accelerator costs less than half of a cyclotron's $2 million price tag. It also is much smaller and uses one-tenth the electricity. Because the accelerator is lighter - one ton compared with 20 - it can be installed without the extensive construction often required for cyclotrons.

Cicero funded for drug abuse research

School of Medicine neuroscientist Theodore J. Cicero, Ph.D., professor of neuropharmacoogy in psychiatry, has received a Research Scientist Development Award from the National Institute of Drug Abuse (NIDA). The award grants totaling more than $3.3 million to Cicero and his fellow School of Medicine researchers to study the impact of alcohol and drug use on human development.

All of the grants are renewals and will allow Cicero to continue his study of the effects of alcohol and drug use on the neuroendocrine regulation of puberty and fertility, and on the development of offspring produced by drug-exposed parents.

"We study the effects of substance abuse on two specific areas of the brain, the hypothalamus and the hippocampus," Cicero says. "We look at how the alcohol and drugs affect brain structure and then at how those changes in the brain are played out in alterations in the endocrine system."

Cicero's laboratory has established links between drug and alcohol use and delays in sexual maturation. Cicero says drugs and alcohol seem to influence the rate of release of sexual hormones in the brain, which are important to development and puberty, delaying or changing the way in which maturation occurs. His findings in a rat model have demonstrated that alcohol and other abused substances significantly retard puberty and sexual maturation in males and that these effects on reproductive function are much more pronounced in pubescent animals than in humans.

Other researchers have shown this pattern exists among humans, Cicero said. "Some social scientists and alcoholics believe that alcoholics and drug abusers, even if the children themselves do not use drugs. Thus, Cicero's studies in animals apparently have direct clinical implications and will provide a model to examine the causes and mechanisms involved in the deficits observed in children of alcoholics or drug abusers."

The problem can be complicated if the children themselves begin to use drugs or alcohol. "Drugs are being used by younger kids, and we want to learn whether that will have an impact on the complex neural system regulating sexual maturation," Cicero says. "Age of first drug use is rapidly moving backwards, and we think that drug and alcohol use at these younger ages could be potentially devastating, but we need to prove that." Cicero also will continue to study the link between paternal drug and alcohol use and developmental abnormalities in offspring. He has found selective physiological and cognitive deficits in the offspring of fathers exposed to alcohol or other drugs prior to conception. These deficits persist throughout the lifetime of the child and represent damage involuntarily inflicted upon children.

"Fetal alcohol syndrome is an acknowledged risk in mothers who abuse alcohol, but what about fathers?" Cicero asks. "We believe there is an effect on offspring when the father abuses drugs and alcohol. These new grants will allow us to determine what that link is."
Scaldini merges arts with business

In the office of Richard J. Scaldini, Ph.D., director of executive programs and associate dean at the Olin School of Business, visitors' eyes are drawn to a framed poster of Paul Gauguin, a turn-of-the-century French painter. A subway advertisement for the New York School of Visual Arts, it shows Gauguin peering forlornly through the prison-like bars of a bank teller's slot. The bold-faced caption reads: "At 35, Paul Gauguin worked in a bank. IT'S NEVER TOO LATE!"

This is the school's Executive Programs Group as a business firm. His vision is that corporations will come to see universities today as the increasing integration of various management education programs as a natural extension of his mission. He continues to have incredible influence on my career — a passion for the arts and a propensity for radical career changes.

During the late 1960s, Scaldini was on a decidedly different track. He became captivated by the avant-garde and modernist movements while pursuing a bachelor's degree in French literature at Tufts University. He studied in Paris at the Sorbonne in 1968-69 and at Ecole Normale Superieure de Paris in 1973-74 on a route to a doctorate in French literature from Yale University in 1976. He taught at Dartmouth College from 1975-79 as an assistant professor in the Comparative Literature Program and the Department of Romance Languages and Literatures. He is fluent in French and speaks basic German and Italian.

"My time at Tufts and my graduate work at Yale are tremendously important to me," he says. "If I have an intellectual base to my work, I got it there. That part of my life continues to have incredible influence on my approach to business."

Not surprisingly, Scaldini is a firm believer in the value of liberal arts to a business management career. Since joining Olin in 1991, he has been a staunch advocate of stronger ties between the school and other areas of the University. He points to the new joint graduate degree in business and East Asian studies as an example of the great opportunities that exist.

"One of the things that I like best about being at a university is the opportunity to interact with various disciplines, departments and schools. The motivation to integrate disciplines is much greater than it was when I was a graduate student a dozen years ago. The great intellectual warehouse that is a university is starting to come together — intellectual activities once conducted in isolation are now responding to the opportunity to deal with common issues."

A priority for Scaldini in his new position is expansion of Olin's executive education offerings to include more short courses, seminars and customized training for individual firms. His vision is that corporations will come to see the school's Executive Programs Group as a trusted advisor in the development of training programs that meet long-term management objectives.

"I'll like this office to be considered the first point of contact for companies seeking assistance with any issue that has an educational dimension," Scaldini says. "We seek a relationship with these companies similar to those with which they maintain their legal, banking and accounting professions."

Executive education, says Scaldini, should be a continuum of degree and non-degree programs. Key executives might be singled out for Olin's Executive MBA program, while others could be directed to specific courses in the university's certificate programs. Departments with special needs might be targeted for customized training programs.

Scaldini sees this new emphasis on customized management education programs as a natural extension of his own background, as well as the business school's longstanding tradition of corporate partnership.

My professional life has been split between academia and business. In my opinion, the most compelling reason both has been the advisory nature of my role. The product in each case was advice and information and my ability to analyze. That's why it's made sense for me to place such a heavy emphasis on customized executive education programs of the Olin School. It fits my background and it fits my passion." Scaldini's metamorphosis from literary scholar to international finance executive began in 1979 when he left Dartmouth to pursue an M.B.A. at Columbia University. "I did graduate work and taught at two institutions where the business side of teaching and research was very sophisticated. Romance Language oriented about two international programs each year. As a faculty member in the next business day. His passport never left his briefcase.

"Most of my work involved extensive cross-border negotiations. Rarely would the client company and the investor be homogeneous, domestic companies. The cultural complexity of the situations was enormous. I worked side-by-side with Brits, Swedes, French, Czechs and Dutch. Everyone was speaking someone else's language. Solely my background and training — you really have to listen for nuances." Scaldini has a tendency to find himself thrust into situations, industries and issues that are in the midst of big changes, often with sometimes dimension.

"I entered the business world in the early 1980s at a time of great turmoil in international finance and the capital markets," he says. "People were grappling with how to manage the risk of new financial instruments spawned by highly volatile markets at the same time these transactions were becoming increasingly global. There was this free-for-all of complexity and opportunity and volatility. We witnessed an unbelievable sea change in global finance."

"Investing is starting to meet the needs of a business world that functions in a global economy. We do business around the world with groups that are racially, ethnically and culturally diverse, and now we're seeing that same mix evolving in our domestic workforce. Workers face cultural, linguistic and historical issues that American business schools historically have had little need to address. To these differences, you must add the complexity of operations conducted on a global versus domestic scale, as well as the emergence of important alternative business methods outside the United States. This is why a liberal arts dimension to one's education has become a very important and critical preparation for business and business studies."

Scaldini's own business perspective is coloredly stamped with a world view gleaned from the liberal arts. He interprets many of the hottest business fads and trends through a liberal arts perspective. For example, the Olin School has a heavy emphasis on customized executive education programs of the Olin School. It fits his background and it fits his passion.

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Exhibitions

"Tales and Traditions: Storytelling in 20th-century American Craft." Through Aug. 15. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. Tuesday-Friday; 1-5 p.m. weekends. Tours available 1-3 p.m. Wednesdays, Saturdays and Sundays.

Lectures

Friday, Aug. 20

Pediatric Grand Rounds. "Metabolic Control Does Matter: Lessons From the Diabetes a.m. Control and Complications Trial (D.C.C.T)," by Arnold。”

Saturday, Aug. 21

University College orientation and tour. "Introduction to Washington University." University College orientation and tour.

Films

Tuesday, Aug. 10

Summer School Foreign Film Series. "Letters From the Past" (Swiss with English sub- tles). Room 219 South Ridgley Hall. 7:30 p.m.

Wednesday, Aug. 11

Summer School American Film Series. "Giant." Room 219 South Ridgley Hall. 7:30 p.m.

Special Events

The following Orientation Week events are required programs for all new students. Others not mandatory for Orientation Week events, or for more info, call 935-5037.

Monday, Aug. 23

Dance place auditions. Performing Arts Dept. dance program. For admission to classes above the introductory level for (bachelor, master and doctoral students without the prerequisite courses). Room 207 Mallinckrodt Center. 10 a.m.

Tuesday, Aug. 24

"Introduction to Washington University." 9:15 a.m.

Wednesday, Aug. 11

Summer School American Film Series. "Giant." Room 219 South Ridgley Hall. 7:30 p.m.

Friday, Aug. 20

Pediatric Grand Rounds. "There's a Fungus Among Us," George S. Kobayashi, prof., Dep. of Internal Medicine and Molecular Microbiology, Clayton Aud., 4900 Children's Place. 9:15 a.m.

Thursday, Aug. 26

Central Institute for the Deaf Research Seminars. "Study-State Retinal Evolved Potentials to Uniform Field and Pattern Stimu- lation. I. Physiological Aspects and Clinical Applications (by Benedetto Falzone, visiting research scientist from Eye Clinic, Catholic University, Rome) and II. Flicker and Pattern Evolved Potential Imple- mentation in LabView," by Arnold Heidbreder, senior design engineer and D.J. Meny; project engineer/network manager, CID. Second Floor Aud, Clinics and Research Bldg. 4 p.m.

Friday, Aug. 27

Pediatric Grand Rounds. "There's a Fungus Among Us," George S. Kobayashi, prof., Dep. of Internal Medicine and Molecular Microbiology, Clayton Aud., 4900 Children's Place. 9:15 a.m.

Miscellaneous

Wednesday, Aug. 11

University College workshop. "Returning to Learning." Room 30 January Hall. For more info. and reservations, call 935-6777. 5:30 p.m.

Saturday, Aug. 21

University College orientation and tour. "Handling the Stress of Washington University." Room 30 January Hall. For more info. and reservations, call 935-6777. 10 a.m.

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This year's Orientation Week theme "A Whole New World" reflects plans by the University to change the orientation week's social programs are open to the campus a little disorienting. "If we have patience, we can make a difference in how campus community. Students contacted individually. 5 p.m. Informational Meeting, College of Fine Arts. Students contacted individually. 4:30 p.m.

Informational Meeting, College of Engineering. Students contacted individually. 4 p.m.

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University faculty, high school students work together on intensive research problems

made me want to look in-state (for colleges) and that led me directly to Washington University. Washington University said it would accept me and I came to WIU that fall," he said.

Although it is unusual to accept students without high school diplomas, William L. "Bud" Mariden, associate dean, School of Engineering and Applied Science, said it happens occasionally. Vincent was accepted for early admission after a personal interview was conducted and his excellent academic record was reviewed. High school teachers and counselors wrote letters supporting Vincent's decision. His college entrance exams were outstanding.

Now, Vincent is involved in a third program offered by the institute, the Collaborative for Applied Experiences in Science (CAES). This program matches Englemann institute graduates with St. Louis area science- or engineering-based companies, healthcare providers and universities for summer work experience. Vincent is the only student who wants the internship.

This is the first year for CAES. Already, the institute has placed students with such institutions as Cardinal Glennon Children's Hospital, Card-Tech Laboratories, Howard Hughes Medical Research Laboratories at Washington University, Mallinckrodt Medical Inc., Mallinckrodt Specialty Chemicals Co., Monsanto Co. and the US-St. Louis Department of Biology, among others.

Vincent is working this summer in the lab of Linda Pike, Ph.D., associate professor of biochemistry and molecular biology. He is creating three mutants of a cell surface protein to determine how a specific protein acts to regulate cell function. It's more than a full-time job. He frequently stops by the lab on the weekends to check his cells.

Although there are five programs within the Englemann institute, Washington University Leisure Services and the Collaborative for Applied Experiences, the University became involved with the Englemann institute as Englemann II was being formed three years ago.

Englemann I was highly successful, and the University of Missouri-St. Louis "saw the need for follow-through," explains Ken Marrs, Ph.D., associate director of the institute and adjunct associate professor at UM-St. Louis.

Englemann II started with 15 students, but since has grown to 38. "We had to look elsewhere for research opportunities (outside of UM-St. Louis and St. Louis University). A number of students were interested in engineering. It was clear to us that we had to go to Washington University," Marrs said.

Washington University's School of Engineering faculty soon began volunteering their time in mentoring relationships. Now the College of Arts and Sciences is getting involved. "Wash. U has been super," said Marrs. "Wash. U really rolled out the red carpet, as has St. Louis U, as has our own faculty."

"It has been very heartening to see outstanding researchers from three institutions of higher education come together to form a partnership to nurture promising young scientists, mathematicians and engineers," said Richard Axelbaum, Ph.D., director of the institute.

"Sometimes they (students) will see things in a different way. They may not see it through fully, but they stimulate thinking in the right direction."

— Richard L. Axelbaum

The book is the culmination of four years of research on the 85 finest pieces in the gallery's permanent collection.

— Joseph D. Ketner

The number 10 proved to be a lucky one for the 1993 St. Louis Printmarket, which in its 10th year raised a record-setting $13,700 for the Washington University Gallery of Art. St. Louis Printmarket, a show and sale of art works on paper, was hosted by the Gallery of Art April 2 through 4. Nineteen local and national print dealers, including the Collaborative Print Shop of the School of Fine Arts, exhibited works ranging from antique to contemporary. This marked the third consecutive year that Printmarket has benefited the gallery.

"The gallery so far has been fortunate to be the beneficiary of Printmarket funds and to serve as the host of this well-received event," says Joseph D. Ketner, director of the Gallery of Art. "This year's generous donation and those from the past two years have allowed us to make purchases and delve into projects that otherwise would have been out of the question. Printmarket also benefits us by bringing into the gallery people from St. Louis and beyond who have known about us and our outstanding permanent collection."

According to Ketner, this year's Printmarket proceeds will help underwrite the publication of a book about the gallery's masterpieces, including Willem de Kooning's "Saturday Night," Pablo Picasso's "La Suze," Leon Lernmerrite's "The Harvest," George Caleb Bingham's "Daniel Boone Flaxing Settlers through the Cumberland Gap," Harrist Homers' "Omen" and many more. The book will be used as an exhibition catalog for a national collection tour, as an educational tool and as a promotional tool for the gallery. "The book is the culmination of four years of research on the 85 finest pieces in the gallery's permanent collection," he says.

The 226-page catalog will go on sale in April 1994, will feature 85 color reproductions and 50 supplemental illustrations.

Another event highlighted was the Printmarket's presentation of an engraved print to the Gallery of Art. The print had been made by John Sartin is patterned after a work by George Caleb Bingham. The gallery will hang the print in honor of Cecile C. Lowenhaupt, recognizing her as St. Louis Printmarket founder and for serving 20 years. Lowenhaupt (Koven) is a 1941 liberal arts graduate of the University of Missouri-St. Louis.

The gallery will host St. Louis Printmarket again in 1994 from April 8 through 10.
Magazine editor co-writes song to raise flood relief funds

S trong Givens, editor of Washington University Magazine, co-wrote a song, hoping it might raise money for area flood victims. He surely will accomplish his goal, now that the song has been made into a video scheduled to air on The Nashville Net-work (TNN) and his music trio has been asked to perform in benefit concerts with big-name entertainers.

"The whole thing happened so quickly," Givens said.

On July 15, Givens was driving down the highway, listening to the news. The name of the song, "Stand Your Ground," immediately came to him. Within 20 minutes, he developed the chorus and the idea that the Salvation Army could use the song for flood relief. He shared the idea with Mike Hall and Barry LaFond. The verseways have been per-Formed by the members of his music trio, Parts. They wrote and revised, finishing the song on August 1. Givens said, "It just seemed to fit the mood of the events."

The video may premiere on TNN as early as August 4. A tag line on the video asks for donations to the Salvation Army. The trio also may perform the song on air at the request of TNN. The video may also be aired on the regional cable channel until early summer.

Washington University will provide assistance to University employees who have been displaced or seriously af-fected by the flood, according to Chancellor William H. Danforth. This relief might come in the form of interest-free loans or volunteer help in cleaning up homes and water flooded areas. The video may be aired as early as early July.

St. Louis University Magazine editor co-wrote a song to raise flood relief funds

University provides volunteers, interest-free loans to employees who are flood victims

Deborah Parker

Washington University has suspended the chapter of Beta Theta Pi fraternity and has locked the fraternity house to chapter use. This move follows a thorough review of the chapter’s compliance with Terms of Probation and has taken place in an effort to maintain the kind of community and foster the character we all desire.

The University has notified all under-graduate chapter members and chapter alumni that a new set of responsibilities has been placed on them. The letter stated that the chapter’s probation is set to expire on August 4. A tag line on the video asks for donations to the Salvation Army. The trio also may perform the song on air at the request of TNN. The video may also be aired on the regional cable channel until early summer.

The video may be aired as early as early July.

University suspends Alpha Iota chapter of Beta Theta Pi

Washington University has suspended its chapter of Alpha Iota chapter of Beta Theta Pi fraternity and has locked the fraternity house to chapter use. This move follows a thorough review of the chapter’s compliance with Terms of Probation and has taken place in an effort to maintain the kind of community and foster the character we all desire.

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Alpha Iota chapter of Beta Theta Pi

The University has notified all under-gra-duce the existence of a real-life couple from Spanish regionally for two years under the name Spare Army. They wrote and revised, finishing the song on August 1. Givens said, "It just seemed to fit the mood of the events."

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For The Record contains news about a wide variety of professional activities.

Note

Philipp L. Goedl, Ph.D., Harold D. Jolley Professor and chair of civil engineering, presented a paper titled "Induced Genetic Mutations" at the International Symposium on Extraterrestrial Science. The symposium was held at the National Academy of Sciences in Washington, D.C.

In 1970 he received his bachelor's degree in zoology and in 1979, his doctorate in pharmacology from Washington University in St. Louis. He then went to the University of Virginia School of Medicine from Fitzsimons General Hospital in Denver.

On assignment

Kevin Herbert, Ph.D., professor emeritus of classics, has been appointed to the International College of Classics of the University of Siena. At the International College of Classics, he will serve on the editorial board and contribute to the scholarly study of ancient Greek literature.

Robert L. Thorp, Ph.D., associate professor of medicine, presented a paper titled "The Role of Genetic Variation in Human Disease" at the Third Annual Conference on Genetic Variation. The conference was held at the National Institutes of Health in Bethesda, Maryland.

Speaking of

During the National Convention of Pastoral Theologians held in Los Angeles, California, a panel discussion titled "Theological Education and the Question?" was held. The panelists included B. M. Butler, a professor of theology, and Andrew J. Sanders, a professor of philosophy.

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Guidelines for submitting copy:

Send your full name, complete title, department, phone number, and highest earned degree to For The Record. Include your noteworthy activity to For The Record, c/o Carolyn Sanford, Campus Box 1070. Items must not exceed 750 words. For information, call Carolyn Sanford at 937-523.
Hilltop Campus

The following is a partial list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained by calling the Campus Career Services Office, Room 126 North Brookings Hall, or by calling 933-5990.

Academic Support Specialist

940004. Biology. Requirements: High school graduate, some college preferred, knowledge of Macintosh Microsoft Word, Windows, and Linux. Experience with high-quality and accurate work; ability to produce high volumes of work consistently; master use of electronic mail and message distribution to facilitate communication; be flexible and have ability to change and adjust to new polices and procedures; meet dead-

lines and produce quality work under pres-
sure; be able to work evenings and weekends to help even our office workload when a significant variation in average workload is experienced by any staff member; typing 50 wpm with accuracy. Clerical tests and three letters of recommendation required.

Department Secretary

940005. Alumni and Development Pro-
gress. Requirements: Specialized secre-
tary and business training; minimum of two years experience; excellent work experience, including excellent word processing, typing 40 wpm with accuracy and organizational skills. Individual should have a strong command of the English language and must be able to deal with staff and contacts with a high degree of precision. Overtime, including nights, weekends, etc., is essential, as is a good personality and good grooming. Clerical tests and three letters of recommendation required.

Technical Associate/Programmer Part-
time.

940006. Student Educational Service. Re-
quirements: Two years of college, bachelor's degree preferred. PC data base manage-
ment; develop and maintain data base file systems; investigation of student informa-
tion to enter, edit and correct in data sys-
tems; implement and maintain student tracking data base file system for reporting purposes; generate statistical data and re-
ports; use FOCUS to generate on-line reports for student data; input and mainte-
ance of department budget, staff salary and appointment records; on-line support to staff and students using com-
puters; development and maintenance of a computer pro-
gram suitable for mailing lists and labels; install and evaluate new software package programs; maintain word processing and data entry skills; type grant report, letters, mailings, and other related projects as assigned. Resume and three letters of recommendation required.

Department Secretary

940007. Public Affairs. Requirements: Some college, bachelor's degree preferred; under-

standings and general interests and abilities to deal with multiple priorities; ability to work with people and to communicate effectively as staff. Duties: Administrative work for director; prepare quarterly reports of office activities; maintain records of expenditures/reimbursements for all special programs; editorial services mailings and records; honor programs and mailings; departmental billings; routine mailings; correspondence; telephone duties; typing; word processing; and three letters of recommendation required.

Cahser/Sales Clerk

940009. Campus Stores. Requirements: High school graduate or equivalent, one year of college pre-
ferred; basic math skills and ability to opera-
te a cash register and customer service. Resistant to pressure of electronic register experience preferred; previous selling experience desired; good physical health conditions and ability to lift moderately heavy items; excellent atten-
dance record; strong people skills; ability to work on Saturdays; typing 20 wpm with ac-

curacy. Clerical tests and three letters of re-
commendation required.

Career Resources Librarian

940013. School of Business. Requirements: Creative person with strong organizational skills; one year of experience in library science and/or library/research experience preferred; strong customer service orienta-
tion. Clerical tests and three letters of recommenda-
tion required.

Clerk

94003. Printshop. Requirements: High school graduate, some college preferred. Duties: Mailroom operations, computer data entry, monthly reports; assistant to manager in maintaining supply (mailing, etc.); telephone receptionist; routine clerical tasks (filiging negatives and proofs, job tickets, etc.). Application letters and three letters of recommendation required.

Administrative Assistant

940016. Alumni and Development Pro-
gress. Requirements: Specialized secre-
tary and business training; typing 50 wpm with accuracy; experience with PC word processing; five years of office experience; ability to deal effectively and sensitively with senior administrators, faculty, alumni, parents and prospective students; maintain confidentiality; excellent attendance record; excellent command of English language; ability to handle multiple project-oriented tasks; good organizational skills and high degree of organization and thought; avail-
able to work overtime as needed; perform some local travel; prefer someone experienced with Macintosh computers, including use of Excel, PageMaker and Adobe. Application letters and three letters of recommendation required.

Secretary to Teacher Education/Student

940021. Education. Requirements: Some college, bachelor's degree preferred; organi-
izational and verbal skills a must; ability to handle multiple priorities in busy office; self-starter and independent worker; typing 50 wpm with accuracy. Clerical tests and three letters of recommendation required.

Internal Auditor/EDP Specialist

940022. Accounting Services. Require-
mements: Bachelor's degree; three to five years auditing experience, preferably with empha-
sis in EDP auditing, ability to develop clear and accurate audit workpapers and audit reports; proven ability to work harmoniously with people and communicate effectively orally and in writing with all levels of fac-
cy, management and operation staff; strong knowledge of file systems, auditing, flowcharting tech-
tiques and computer capabilities as multi-
tools. Clerical tests and three letters of recom-
mendation required.

Systems Manager

940023. Architecture. Requirements: Bachelor's degree. Duties: VAX systems management; MAC systems management; SGI systems management; network manage-

ment; management of all project-oriented work; project management of urban data base; assisting with grant proposals; management of stu-
dent level projects; maintenance and computer communication facilities; typing with fluency in all areas of work. Resume and three letters of recommendation required.

Accounting/Purchasing Assistant

940024. Computer Science. Require-
mements: High degree. Requirements: General knowledge of electronics helpful, not required. Knowl-
edge of EIS would be helpful, not required. He serves as an intern/employee. Resume and three letters of recommen-
dation required.

Administrative Secretary

940026. International Studies. Require-
mements: Some college, bachelor's degree preferred. Provision of general secretarial support to an ac-

associate director; assist in the preparation of newsletters, reports, grant proposals, cre-
dation of data bases, budgetary and other office-related responsibilities; arrange meetings, seminars and other events; must have excellent communication and organizational skills; must know how to use a Macintosh computer and be familiar with the word processing programs for the MAC would be an added asset; FileMaker Pro, Canvas, Excel and Microsoft Word; knowledge of FIS accounting system also is a plus; typing 55 wpm with accuracy. Clerical tests and three letters of recommendation required.

Department Secretary

940027. Alumni and Development Pro-
gress. Requirements: Associate's degree or equivalent knowledge; specialized secretarial and business training; three years general office experience; typing 50 wpm with accuracy; good command of English; must be alert, well-spoken, able to deal with multiple priorities with minimum supervision; mature, well-
groomed, pleasant; able to work well and relate easily with others. Clerical tests and three letters of recommendation required.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Em-
ployees who are interested in submitting a transfer request should contact the Hu-

man Resources Department of the medi-
cal school at 362-4920 to request an ap-
novation. Externals candidates may call 362-7187 for further information about the appli-
ication procedures or may submit a resume to the Medical School located at 4840 Clayton Ave., Campus Box 8002, St. Louis, Mo. 63110. Please note that the medical school does not discler social security for vacation-
care, and the office strongly discourages inquiries to departments other than Hu-

man Resources.

Coding Specialist - Diagnostic/Medical

930172-R. Internal Medicine. Schedule: 10 a.m. to 7 a.m., including some week-
neends. Requirements: High school gradu-
ate or equivalent; two years related CPT and ICD-9 coding experience preferred; accredit records technician or similar clinical training or skill preferred.

Data Entry Operator 1

930875-R. Surgery. Schedule: Temporary part-time position. Flexible scheduling, including days, evenings and weekends. Duties: High school graduate or equiv-
lent; must have excellent interpersonal skills; typing 50 wpm or better.

Project Assistant

930917-R. Internal Medicine. Require-
mements: Bachelor's degree in business administration or related field with three years clinical training and experience with medical records coding; strong communication, interpersonal and ana-

lytical skills.

Medical Research Technician

930941-R. Pediatrics. Schedule: Temp-

orinary position until September. Re-

quirements: Bachelor's degree with experience in general laboratory tech-
iques, including tissue culture and molecular biology; must be able to work semi-independently.

Medical Secretary II

930959-R. Pediatrics. Requirements: High school graduate or equivalent; some experience in medical terminology; typing 50 wpm and expe-
rience in CPT and ICD-10 coding preferred; four years working experience pre-
ferred.

Medical Research Technician

930972-R. Pathology. Requirements: Bachelor's degree with two to five years laboratory experience, including some work with isotopes and small animals.

Medical Research Technician

930991-R. Genetics. Requirements: Bachelor's degree with background in chemistray and/or genetics in order to be able to learn molecular biology tech-
iques, including PCR.

Laboratory Technician - Research

930910-R. Genetics. Requirements: Must be highly detail and detail-oriented and have the flex-
bility to adapt to new protocols. Will be caring for patients in human molecular genetics. Should be able to work well and return to Cambridge as interper-
sonal skills to work with others.

Medical Research Technician

930454-R. Lipid Research. Schedule: Full time, including some weekends for experi-
tients. Requires Bachelor's degree at least five years experience as a technician, including experience with animals (motes), preferred.

Medical Research Technician

940071-R. Ophthalmology. Require-
mements: Bachelor's degree with some background in biology, general dexterity and eagerness to learn new techniques. Experience in tissue/cell culture and biological tech-
iques preferred.

Medical Research Technician

940073-R. Ophthalmology. Require-
mements: Bachelor's degree in chemistry or biochemistry with one year experi-
ence in laboratory work; should be familiar with most common laboratory recon and recording knowledge and skills; must be willing to handle animal tissues.

Nursing Supervisor

940074-R. Pediatrics. Requirements: BSN, MSN/PNP preferred with two years experience in hematology/oncology; must have excellent interper-
nonal skills to develop ongoing thera-
py relationship with the patient's families served by the department.

Medical Research Technician

940089-R. Biochemistry. Schedule: Part-time, 22.5 hours a week; days negotiable. Requirements: Bachelor's degree; must have the ability to perform general research laboratory tech-
istry experiments under guidelines from supervisor, using knowledge of standard procedures, theories, concepts and techniques.

Medical Research Technician

940097-R. Radiation Oncology. Re-
quirements: Bachelor's degree with college-level coursework in biology and chem-
istry or two years experience working in a laboratory. Will perform research experiments as directed by the investiga-
tors.

Waterston

Waterston's laboratory can sequence and interpret just over 1 million chemical bases of the nematode's genetic code each year. With the advanced software and automation, researchers, will be able to elucidate 10 to 15 million chemical bases annually. A 1965 graduate of Princeton Univer-
sity, Dr. Waterston, retired his medical and doctoral degrees in 1972 from the Univer-
sity of California at Berkeley where he had studied with pediatric medicine at Children's Hospital Medical Center in Boston and an appointment to the Medical Society and the American Dysphagia Association postdoctoral fellow at the Laboratory of Biologic Research in the College of Medicine at the University of California in Berkeley. He joined the School of Medicine in 1979 and is currently Professor of Pediatrics and a Guggenheim Fellow in 1985 for a sabbati-
cal year.