Founders Day commemorates University's 139th anniversary

Thomas F. Eagleton, L.L.B., former U.S. senator and University Professor of Public Affairs, will be the principal speaker at Washington University's 139th Anniversary Founders Day banquet on Oct. 10 at the Adam's Mark Hotel, Fourth and Chestnut streets.

Founders Day, which commemorates the University's founding in 1853, is sponsored by the Washington University Alumni Association. The banquet, to be held in the Promenade Ballroom, begins at 6:30 p.m. The deadline for reservations is Oct. 5. To make reservations or for ticket information, call 935-5122.

Four Distinguished Faculty Awards and six Distinguished Alumnus Awards will be presented at the banquet. In addition, the Board of Trustees will bestow the Robert S. Brookings Award to three individuals, who, by their commitment and generosity, exemplify the alliance between Washington University and its community. A story on the winners and Brookings award recipients will appear in the Oct. 8 Record.

This year's faculty award recipients are: Ronald Freiwald, Ph.D., associate professor of mathematics; Stephen Legomsky, J.D., Ph.D., professor of law; Enida Proctor, Ph.D., professor of social work; and Matthew N. Smith, M.D., professor of pediatrics and associate professor of molecular microbiology.

They are being recognized for their "outstanding commitment to teaching and dedication to the intellectual and personal development of their students."

FREIWALD, an important force for curricular development in the department, has experimented with teaching techniques, ranging from the use of nonstandard analysis in honors sections to using computers to improve student understanding and enthusiasm. In 1991, he played a leading role in a departmental project to re-examine and overhaul the calculus sequence.

FREIWALD recently completed a five-year term as director of the Summer School. During that time, the Summer School instituted a Visiting Faculty Award, giving a distinguished scholar from abroad the opportunity to study on campus during the summer session. Freiwald joined the Washington University faculty in 1970 as an assistant professor. He is a member of the American Mathematical Society, the Mathematical Association of America and Phi Beta Kappa.

LEGOMSKY, a former actress, joined the School of Law in 1981 as an assistant professor. His evolutions, from both... Continued on page 6

French literary experts from across the world to attend colloquium honoring Robbe-Grillet

A colloquium featuring more than 40 speakers from around the world will be held Oct. 9-11 to commemorate the 70th birthday of French novelist and filmmaker Alain Robbe-Grillet. Robbe-Grillet, the Distinguished Professor of Romance Languages and Literatures, has been affiliated with the University since 1986. The colloquium, which will include a talk by the novelist, is free and open to the public.

Robbe-Grillet was born on Aug. 18, 1922. The colloquium, titled "Robbe-Grillet at 70," begins at 9:15 a.m. Oct. 9 in the Women's Building Lounge. Michel Rybakov, Ph.D., professor of French, is the coordinator.

"Robbe-Grillet is one of the great writers of our time, as well as a brilliant lecturer in French," said Rybakov. "The colloquium will honor his literary and cinematic achievements." Robbe-Grillet, who lives in France, is the founder of the New Novel, a literary movement that began in France in the 1950s.

The colloquium will be conducted in French and English. French literature experts from the United States, France, Canada, the Netherlands and Iceland will deliver presentations. Some of them are Robbe-Grillet's former students at the University. Robbe-Grillet will speak in French about his career at 8:15 p.m. Oct. 9 in Steinberg Hall Auditorium. Additionally, his 1983 film titled "La Belle Captive" will be shown at 5 p.m. Oct. 9 at the Tivoli Theatre, 6330 Delmar Blvd. The showing, which is free, will mark the St. Louis premiere of the film made in French with English subtitles.

Robbe-Grillet is best known for the 1957 novel "Jealousy" and the script of the film "Last Year at Marienbad," which won the grand prize at the 1961 Venice Film Festival. He has published two volumes of his autobiographical writings and a third volume. Every two years, he teaches two courses in French at Washington (one for undergraduates and one for graduate students) and presents several lectures in French. The classes last 10 weeks.

The colloquium is sponsored by the Department of Romance Languages and Literatures. For more information, call 935-5175.

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In This Issue...

Medical Update: YAG laser removes tattoos without damaging surrounding skin

Washington People: Barbara Schaal, Ph.D., professor and associate chair of the Department of Biology

In the news: Town & Country has a new logo, courtesy of Bob Smith, professor of fine arts

Anne Johnstone, Ph.D., senior research associate, and Stan C. Kwansy, Ph.D., associate professor, both of computer science, are in the anechoic sound chamber at the Central Institute for the Deaf. Johnstone spoke French and English during an experiment where a computer program correctly distinguished between the two languages at 100 percent accuracy. The chamber walls are composed of fiber glass and wire mesh, making the chamber soundproof.

Parlez-vous Francais?

A computer program knows for sure

Wether you say "hello" or "bonjour," Stan C. Kwansy, Ph.D., of Washington University, has a computer program that will understand.

Kwansy, an associate professor of computer science, has trained a computer program to identify the sound of different languages in real time. Kwansy and Washington computer science colleagues Barry L. Kalman, Ph.D., a senior research associate, and A. Maynard Engbrecht, D.Sc., an affiliate associate professor, developed the software. They tested it at 100 percent accuracy in distinguishing two-second sound bites from two bilingual speakers who spoke French and English.

The Washington University experiment, conducted in the anechoic sound chamber at the Central Institute for the Deaf, is the most successful trial to show that computers can be trained as robots to understand different languages. It is a major contribution to the growing body of research in different languages. It is a major contribution to the growing body of research in different languages.

A computer program knows for sure

in the intelligence field. The principle of distinguishing sounds correctly even could become the foundation for developing a learning aid for the hearing-impaired. These endeavors all would require an automated system that could discern almost immediately distinct differences in sound.

"This is a first step, admittedly a modest one, toward the development of smart systems capable of understanding different languages and nuances of speech," says Kwansy, who is a member of Washington University's Center for Intelligent Computing Systems (CICS). "The primary significance is the ability of the system to process raw speech data and then immediately make a high-level decision in real time. The system judges the speaker."

"Let's say a phone company in Europe wants to build an international directory," he continues. "An automated system that understands languages could determine the nationality of the speaker within a second or two and connect the caller with a system that understands that language or a real operator who speaks the language. In the phone business, time means money. Delays can cost big bucks — in the millions of dollars. So, there is plenty of incentive to have a system that can make a choice at the front end of the conversation."

Continued on page 6

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Medical Update

YAG laser offers painless tattoo, age spot removal

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emories etched into the mind may last forever, but those stained beneath the surface of the skin can be removed.

Tattoos, which conjure up images of youth, first loves and going off to war, are portrayed with memories that persist until the day they end up haunting the present. Up until now, the alternatives for shedding these faded memories have been limited and painful. But a new laser treatment being used in the Division of Plastic and Reconstructive Surgery at the School of Medicine offers a virtually painless way to help people keep the past in its place.

The new laser, called a Q-Switched YAG Laser, dispenses a beam of light that penetrates the skin and breaks up the unwanted pigment or tattoo without damaging the surrounding skin. The laser cut here is on the pigment or tattoo and destroy it with no appreciable rate of scarring, says George J. Hruza, M.D., assistant professor in the plastic surgery division.

"There are a variety of people who want their tattoos removed," Hruza says. "We see people who want their tattoo removed because they think it will slow down their career advancement in a job and feel the tattoo might hurt their chances."

Up until now, standard tattoo removal methods have included a carbon dioxide laser, dermabrasion, acids and even a salt compound for rubbing off the tattoo. "Until this laser, all methods for tattoo removal have been very destructive," says Hruza, who also directs the Cutaneous Cancer Center at Barnes Hospital. "At best, these methods left the patient with a burn scar, and at worst, an uglier, thicker scar. With this laser, most patients tolerate the procedure without anesthesia."

As the laser beam penetrates the skin, the tattoo turns a bright white and then red and swells, Hruza explains. The laser emits 10 pulses per second. Each session lasts about 15 minutes. Anti-bacterial ointment and a patch are applied to the area after each treatment. A fine scale develops, but patients aren't restricted in their activities.

Hruza says one drawback to the process is that it must be repeated several times every two months, depending on individual results. "The multiple sessions are a disadvantage of the laser, but the big advantage is that, when you have completed the treatments, the results are very close to normal-looking skin."

The laser removes the most common colors found in tattoos, black and blue. It also removes red, but results with other colors may vary. Hruza says another characteristic of the laser is that it can be used on patients with dark skin.

The laser also works on age spots, freckles and liver spots, and is being studied for use in treating facial spider veins and a deeper pigment disease called Nevus of Ota. Nevus of Ota is a slate gray or black discoloration of the face that often occurs in people of Japanese descent.

While the laser appears to have many advantages, Hruza says it is most effective in removing tattoos. "People should think twice about getting a tattoo because it can last forever and it costs far more to take it off than it does to put it on," Hruza says. "Not every patient can get rid of 100 percent of their tattoo; some remnants remain."

The cost of tattoo removal depends on the size of the tattoo. Hruza says sessions range from $200 to $500, and a complete removal can cost as much as $3,000. Age spots and freckles usually cost less because they require fewer treatments.

Hruza is assistant professor of medicine in the Division of Dermatology and assistant clinical professor of ophthalmology.

Pilot project funding available through Alzheimer’s Disease Research Center

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chool of Medicine researchers who want to apply for funding through the Alzheimer’s Disease Research Center (ADRC) must submit their proposals by Dec. 7.

Pilot projects will be funded for one year beginning May 1, 1993, at a maximum of $20,000 in direct costs. Exceptions may be made for two-year proposals, which would receive a maximum of $40,000 in direct costs. Five copies of the proposal must be submitted.

Biomedical, epidemiological or behavioral research as it relates to dementia and/or aging of the central nervous system will be considered for the awards. More distantly related work will also be considered for proposal assistance with proposal ideas, call Kathy Mann Koepke, Ph.D., at 362-2881.

Address changes and corrections: Postmaster and non-employees: Send address changes to Record, Washington University, Box 1070, One Brookings Drive, St. Louis, Mo. 63130. Second-class postage paid at St. Louis, Mo.

Washington University in St. Louis
Schaal juggles plants, people and PCR

B iologist Barbara A. Schaal, Ph.D., has an office nestled in the northwest corner of Monsanto Hall. To the right of her office door is a gallery of colorful drawings and finger-paintings courtesy of her daughter, Louisa, 6, and son, Joseph, 7. On the door itself is a white-lettered cardboard sign that reads, simply, RETIRE. But Schaal, in mid-career, already has packed in enough service to Washington University and the science world to entitle her to ease out of the fast lane. If she did, however, the emerging science of plant molecular evolution, a new generation of students and her colleagues would find the going tough without her. "I know what implications my students mean by that sign," Schaal says wryly. "Maybe they were kidding me about having my hands full of the most time. But, you know, I like being busy, I like being challenged."

And she is both challenged and busy. Married to Wesley Joseph Leverich, Ph.D., professor of biology at St. Louis University, Schaal deals with the demands of motherhood while also juggling her other roles as a leading plant population biologist, teacher and administrator. She is professor and associate chair of the Department of Biology. Schaal served as acting chair during Roy Curtis III's sabbatical leave in 1989. She also is a member of the curriculum and biotechnology committees in her department, has worked as the department's coordinator of University College since 1980, and is chair of the Faculty Council. In addition, she is a highly valued member of the Center for Plant Conservation at the Missouri Botanical Garden. The center stores and propagates some 400 of the nation's approximately 3,000 endangered plant species and is the only organization of its kind in the country. Schaal aids the center through imparting her expertise on plant population genetics.

Schaal teaches Biology 287, the introductory biology course for majors, as well as a popular, undergraduate conservation biology course with colleagues Owen Sexton, Ph.D., and Alan Templeton, Ph.D.

Schaal is known for applying molecular genetic techniques to the study of plant evolution, with special emphasis on the study of crop species, some of them endangered. Her research involves the use of molecular techniques such as polymerase chain reaction (PCR), DNA sequencing and DNA fingerprinting—"all relatively new technology"—that has boosted her professional status, making her a much sought-after speaker at symposia throughout the country. And it is beginning to slowly break down DNA into its basic chemical units. And DNA is fingerprinting a technique that gives the unique genetic signatures of animal, plant and microbial species.

Schaal's expertise in these techniques also has made her a popular member of dozens of conferences. She is working with eight students, two of whom also work with Peter Raven, Ph.D., Englander Professor of Botany and director of the Missouri Botanical Garden. Raven offers his taxonomic expertise and the resources of the garden, while Schaal endows the students with her knowledge of genetic techniques and plant evolution.

Genetics has been biology's buzzword in recent years. DNA (deoxyribonucleic acid), the genetic material in all cells, is often called the "blueprint of life." DNA is found in the genes housed in the chromosomes of all species. The public generally is aware of DNA only as it relates to our own species or, perhaps, as it relates to cancerous breeding of endangered species, such as the California condor. People are naturally curious about hair color, height and blood type—"ideal genetic traits," as they also want to know if their children are at risk of a genetic disease such as cystic fibrosis or certain inheritable cancers. (Huntington's disease and HIV/AIDS are hereditary diseases. Hiding of genetic techniques and the completion of the human genome project offer the promise of revealing secrets of our own species.

Genetics can divulge other murky intrigues such as paternity and guilt in criminal cases. Any human remains—drops of blood, semen or strands of hair—contain DNA and yield potentially self-incriminating evidence. DNA fingerprinting allows scientists to extract samples of DNA so they can identify the fractions of the one-trillionth portion of DNA that makes an individual human unique. While DNA fingerprinting of humans as forensic evidence is controversial, the technique is commonplace and is very much in the news these days.

"I find any kind of plant special, but I'm very much concerned about those that are disappearing."

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"I find any kind of plant special, but I'm very much concerned about those that are disappearing."

DNA fingerprinting is also used to study plant populations and characteristics for breeding purposes, for their evolution—history and for their preservation. Many U.S. native plants face extinction because of continual development, loss of habitat and pollution. Schaal's professional reputation has been built on her acute study of hosts of plant populations ranging from the sublime—oaks and Texas wildflowers—to the seemingly ridiculous, the lovely dandelion, to the inedible: Methuselah's milkweed, a Midwestern prairie plant. Plants are less complex species than either animals or humans, and thus, to the non-biologist, it would seem that plant genetics would be easier to study. But Schaal says the reverse is true. "Plants, for one, are often popylene meaning they have certain characteristics that are useful to people, with or without animals," Schaal explains. "Also, unlike the other species, plants can't move around, and so they have developed a whole biochemical arsenal to protect them from their predators. These secondary compounds interfere with any other species trying to remove them from DNA samples. So, getting clean DNA to work with is as much more difficult with plants."
Oct. 1–10

Lectures

Thursday, Oct. 1


4 p.m. Division of Biology and Biomedical Sciences Student-run Seminar, “Control of Mating Type in Yeast,” James Broach, profes- sor, Department of Cell Biology and Genetics. University of Massachusetts, Amherst. Clopton Aud., 4950 Children’s Place.

Friday, Oct. 2
9 a.m. Earth Grand Rounds, “Pre- venting HIV Infection in Adolescents: School-Based AIDS Education,” F. Sessions Cohn, assoc. prof., cell biology and physiology, WU School of Medicine. Steinberg Hall Lounge. Newborn Medicine, St. Louis Children’s Hospital. Clapton Aud., 4950 Children’s Place.


1 p.m. Dept. of Mathematics Geometry Seminar by Lorenz Schwachhoefer, WU graduate student. Room 199 Cupples I Hall.

1 p.m. School of Engineering and Applied Science Seminar, “Characterization of Analogous Electrical Behavior in GaAs infrared LED,” Ronnie Swanson, WU electrical engineering graduate student. Room 305 Heyman.

2:30 p.m. Dept. of Mathematics Complex Dynamics Seminar by Nicola Arozzi, WU graduate student. Room 199 Cupples I Hall. 6:45 p.m. African Students Association and the Society of Black Student Social Workers Lectureship. University of Missouri. For info., call 935-5327.

Friday, Oct. 3


Wednesday, Oct. 7


1 p.m. Dept. of Mathematics Geometry Seminar by Lorenz Schwachhoefer, WU graduate student. Room 199 Cupples I Hall.


4 p.m. Dept. of Music Lecture by Peter Davies, guest composer, St. Louis Sym- phony Orchestra. Alumni Hall Living Room. For info., call 935-5551.

4:15 p.m. Dept. of Romance Languages and Literatures Lecture, "Retroviral Transduction of Hepatocytes in the United States, 1870-1920," Theda Skocpol, Dept. of Sociology, Harvard U. Room 149 McMillan Hall.

Friday, Oct. 8

9:15 a.m. Dept. of Romance Languages and Literatures Colloquium, "Robbe-Grillet at 70." Women’s Bldg. Lounge.


Tuesday, Oct. 6

Music

Sunday, Oct. 4
2:30 p.m. Department of Music Wind Ensemble Concert featuring “After Sex Jazz,” directed by Dan Presgraves, with special guest Doug Skamer (continues Oct. 3, same time). Edison Theatre. Cost: $20 for general public; $15 for faculty, staff and senior adults, $10 for students with ID. For info. and tickets, call 935-6543.

Performances

Friday, Oct. 2
8 p.m. Edison Theatre “Ovation!” Series presents “An Evening With Bill Irwin” and special guest Doug Skamer (continues Oct. 3, same time). Edison Theatre. Cost: $20 for general public; $15 for faculty, staff and senior adults, $10 for students with ID. For info. and tickets, call 935-6543.

Friday, Oct. 9
8 p.m. Performing Arts Dept. presents “The Art of Success” by Nick Dean (continues through Oct. 18, various times and dates). Presented in conjunction with the Interna- tional Writers Center Conference “The Writer in Politics.” Cost: $7 for general public; $5 for faculty, staff, senior adults and students. Drama Studio, Room 200, Mallinckrodt Center. For info. and tickets, call 935-6543.

Films

Tuesday, Oct. 6
7 p.m. Dept. of Asian and Near Eastern Languages and Literatures Japanese Film Series. "Omen," directed by Roman Polanski. Room 219 South Ridgley Hall.

1992 Homecoming activities schedule

Thursday, Oct. 1
Homecoming T-shirt Day and Ping Pong Ball Drop, 11 a.m. to 1 p.m. at Math Hall.

Bowls-Pizza Day, 4 to 5 p.m. Modell Field, Spirit Rally and Announcement of Homecoming Court, 8 to 10 p.m. Bowles Plaza, 1-2 Night, 10 p.m. The Rat.

Friday, Oct. 2
WU Days Hour-Long Keynote Speaker: Volodya King, 11 a.m. Graham Chapel.

T-shirt Tie-Dye, 1 to 6 p.m. Bowles Plaza, Women’s Volleyball Tournament, 3:30 p.m. Field House, Floorbuilding, 5 p.m. Athletic. College of Women’s Soccer, 9 p.m. Francis Field.

Saturday, Oct. 3
Women’s Volleyball Tournament, 10 a.m. Field House; Parade, 1 to 3 p.m. Athletic Complex Parking Lot; Tailgate, 5 to 7 p.m. Athletic Complex Parking Lot; Football Game, 7 p.m. Francis Field. Dance, 9 p.m. to 1 a.m. Bowles Plaza.

Exhibitions

The Performing Arts Department will present "The Art of Success" Oct. 9-11 and 16-18 in the Drama Studio, Room 208 Mallinckrodt Center. Students in the play are: (clockwise from left) Louise, the prostitute, played by senior Shannon Warren; artist William Hogarth played by senior Peter Sagesard; wife, Jane Hogarth, played by Michelle Perkins; and writer Henry Fielding played by senior Jeremy Morrison.

"Art, sex and society"

Playexplores artists' role, responsibility

The play, which Dear wrote when he was 29, premiered at the Royal Shakespeare Company (RSC) in 1986. It won numerous awards and subsequently transferred to The Piccadilly Theatre in London. Since then, Dear has had three other plays performed by the RSC. The production will be directed by Michael Fray, who is here as a visiting British artist to teach and direct this premiere. Director Fray, who has worked all over London's West End, has directed and produced numerous plays, both classical and contemporary. Fray, also a playwright, has adopted numerous novels to the stage, including The Great Gatsby, Tess of the D'Urbervilles and Emma.

Dear has been invited to attend the Midwest premiere of the play and will give a lecture titled "Theatre and Society" at 7 p.m. Oct. 8 in the Drama Studio. The lecture is free and open to the public.

The play is being produced in conjunction with "The Writer in Politics" international conference, organized by the University's International Writers Center. Tickets to "The Art of Success" are $7 for general public and $5 for senior citizens, students and Washington University faculty and staff. For more information, call 935-6543.

Support group begins weekly meetings

T he Childhood Sexual Abuse Group, sponsored by the Psychological Ser-
vice Center at Washington University, will begin weekly meetings in October aimed at educating female adult survivors about the effects of childhood sexual abuse and helping them cope.

The group, led by Rebecca Allen-Burge and Donna McCullough, doctoral candi-
dates in clinical psychology, will meet from 6-7:45 p.m. Thursdays for six months.

Information will be provided during each session, and members will be encouraged to participate in discussions as they feel comfortable. Group meetings will provide a supportive atmosphere where members can share with each other in hopes of reducing their feelings of isolation and shame.

Calendar guidelines

Events sponsored by the University — its departments, schools, centers, and its recognized student organizations — are published in the Calendar. All events are free and open to the public, unless otherwise noted.

Calendar submissions should state date, time, place, sponsor, title of event, name of speaker(s) and other information. Quality printed photographs with descriptions or articles are welcome. Send them to Melissa Kohne, Box 1070 (or via tax: 935-4259). Submission forms are available by calling 935-8533. Submission forms are due two weeks prior to publication. Late entries will not be considered.

The deadline for all entries is noon Tuesday of the week prior to publication. Entries are welcome. Send item to Melissa Kohne, Department of Humanities, Washington University, St. Louis, Mo. 63130 or via tax: 935-4259. Submission forms are available by calling 935-8533.

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Comedy duo presents 'new' revamped style of vaudeville

Pan-up to a futuristic road warrior with a weathered visage, auburn hair, and dripping with feathers — to explain modern physics in "A Brief History of the Universe" at 2 p.m. Oct. 11 in Edison Theatre. "A Brief History of the Universe" is part of Edison Theatre's "New Wave people" series, which presents a diverse selection of world-renowned performing arts events geared to children ages 8 and up.

Daniel Mankin and Mark Sackett perform as the "Flying Karamazov Brothers and Avner the Escenetic." In 1984, the vaudeville troupe released "Savage Chicken," which was a huge critical and popular success and went on to sell out houses in San Francisco and Berkeley, Calif., before touring in Europe for a total of 110 shows over three months.

In addition, Vaudeville Nouveau produced the first San Francisco New Vaudeville Festival, which received national press coverage as well as a title for the Northwest Arts Channel special, "The New Vaudeville," in which Vaudeville Nouveau was featured. Tickets to "A Brief History of the Universe" are $7 for all. Call 935-6543.

VAUDEVILLE NOUVEAU'S Daniel Mankin (left) and Mark Sackett use everything from pingpong balls to rubber chickens in "A Brief History of the Universe," which will be presented at 2 p.m. Oct. 11 in Edison Theatre. For more information about the performance, call 935-6543.

Registering a vote

To train the software, Kwasny and his colleagues recorded eight different 12- and a-half-second segments in a soundproof studio. The recordings were made by a man who spoke English with an American and English and a woman who spoke native English and non-native French. Both were fluent in either language. From the original recordings, Kwasny's research group then cut those segments into 2.5-second segments from the digitized raw speech. They then input the training data for the system, which, when presented with a fragment, could "vote" on the language.

Kwasny's system that he has identified as English, French and spoken with a Southern accent, according to Kwasny. "But the concept goes beyond simply language-recognition. A program could be developed that could identify women's or men's voices, New English or Southern accents, or emergency versus routine voice patterns. That's what is exciting about computer-language recognition."

Ask the Oz

In related CICS work at Washington University, Anne Johnstone, Ph.D., a senior research associate in computer science, performed a "Wizard of Oz" experiment to determine the kinds of questions telephone users most often ask operators. Phone companies, such as Southwestern Bell, which funds part of her research, are interested in developing voice-recognition systems that can relay information to human operators at rapid speed.

Johnstone's experiment was named after the classic book and movie, because she solicited participants making phone calls to a supposed automated operator that then connected the caller to the requested destination. However, the automated operator was actually controlled by a researcher who pressed a button that gave the preferred robotic response.

Johnstone said results of this experiment indicate that people keep speech short and to the point when talking to what they think is a machine, that they keep pronunciation usage to a minimum, and that the conversation's focus is kept within the task at hand. The Wizard of Oz experiment is one in a series of experiments in which Johnstone is trying to discern how people talk to automated systems and what common words people tend to use when talking to something that is truly "less than human." She hopes ultimately to develop a computer system that, for limited tasks, can perform after receiving instructions in English. Vs...adapts phone companies, other service industries such as mail-order sales may use systems that can take a variety of different phone numbers and direct them to the proper operator.

"It would be nice if we could have a hand in developing a sort of scanner for speech that works like the computerized scanners for barcodes on groceries," she reflects. "The frequencies that are hit in speech would correspond to the lines on the barcodes. Of course, speech is a lot messier data to read than the smooth lines of a can of corn. But I think we're starting to show that people can start thinking of this as a real possibility." The Tony Fitzpatrick

Faculty will be honored at Founders Day banquet

Faculty and students, consistently have been a priority. He has recently published a coursebook, titled Immigration Law and Policy. In 1991, Legomsky chaired the law school's long-range planning committee; and in 1985 he chaired a committee charged with revamping student recruitment. As chair of the school's student-faculty relations committee, he helped negotiate a series of measures responsive to concerns of the Women's Law Caucus and the Gay Law Students Association, which has taught at universities in New Zealand, Switzerland and Mexico. Legomsky chairs the Policy Advisory Group appointed by the commissioner of the Immigration and Naturalization Service. He also chairs the Law Teachers Committee of the American Immigration Lawyers Association. In addition, he is vice chair of the Immigration Committee of the American Bar Association's Administration of Law. He established and has chaired the immigration law section of the Association of American Law Schools, which was elected to the American Law Institute.

Professors have taught and developed courses for the master's and doctoral programs at the George Washington School of Social Work for 15 years. A scholar and author, and a consultant to the US. Office of the Surgeon General. She is the recipient of the American Public Health Association's Teacher of the Year in 1989 and is frequently cited as an outstanding author among housestaff and fellows alike.

Shackelford has devoted her scientific career to an understanding of the developmental biology of the immune response to polysaccharide antigens in young children, a problem of considerable importance for prevention of severe invasive H. influenza disease. She has served as vice chair and chair of the Washington University Faculty Council and is president of the Washington University Medical Center Alumni Association. She is also vice president of the St. Louis Pediatric Society and past president of the local chapter of Alpha Omega Alpha. She holds memberships in the Infectious Diseases Society of America, the American Association of Teachers of Medicine, and the American Pediatric Society.

Tony Fitzpatrick
Faculty members join University

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

Joy M. Bergelson, Ph.D., assistant professor of biology, comes to Wash-ington University from Oxford Uni-versity, where she is a research associ-ate and was a junior faculty member in zoology. She has taught at the Univer-sity of Oxford and several other uni-versities as well. Her research interests include the role of circadian clockwork in temperate weeds with resistance to herbicides. To support the project, she received a $21,000 grant from the U.S. Department of Agriculture's Biotechnology Risk Assessment Pro-gram. She also is researching the spread of resistance through weed populations and has been awarded a $40,000 grant from the Agriculture and Food Research Council in the United Kingdom. A recipient of the NATO Fellowship in Biological Sci-ence, Bergelson has published papers in refereed journals and has delivered many presentations. She received her bachelor's degree, magna cum laude, in biology from Brown University, and her master's degree in biol-ogy from the University of York in the United Kingdom, and a doctorate in zoology from the University of California, Santa Barbara, and a doctorate in biology from the University of Cairo. ... 

Bob Smith, professor in the School of Fine Arts, recently designed the logo for Town & Country.

For The Record contains news about a wide variety of faculty and staff scholarly and professional activities.

Of note

The Southern Medical Association has awarded a $2,500 research grant project to Lydia Rea Einsky, M.D., a fellow in oph-thalmology, for her research project on the use of Perfluorocarbon for the Detection of Chalmydial Neonatal Conjunctivitis.

William Hawk, assistant professor at the School of Fine Arts, has been selected as a participating artist in the 1993-94 Mis-souri Visual Artists' Biennial. The exhibi-tion will open at the Museum of Art and Architec-ture (Columbia, Mo.) in March and tour the state from July 1993-June 1994. Hawk is one of only three visual artists from Mis-souri selected for the exhibit.

Tim Leamer, Ph.D., assistant pro-fessor of education, has received the Michi-gan State University 1991 College of Edu-cation Outstanding Dissertation Award for his dissertation, titled "Intention, Risk, and Voting: The Third in the Writing Nerd Shop." He received the award at the 1992 Fall Faculty Conference, College of Educa-tion, held at Michigan State University in East Lansing. He also gave a talk on his dissertation during the conference.

At the annual meeting of the American Psychological Association in Wash-ington, D.C., Jane Loevinger, Ph.D., associate professor of psychology, presented a paper on the subject of personality from the Division of Personality and Social Psychology. She also gave an address titled "Has Psychology Lost Its Conscience?"

Speaking of

Ghulaine Cruz, Ph.D., professor of earth and planetary sciences, and Meenakshi Wadhwa, a graduate student, presented four papers at the Annual Meteoritical Soci-ety Journal has named...
The following is a list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, North Brooks Hall, Room 126, or by calling 935-3590.

Coordinator of Judicial Affairs
930828. Student Affairs. Requirements: Bachelor's degree; master's degree in a relevant discipline preferred. Experience working with students and student organizations; relevant experience in the supportive leadership of student community groups also is important. Ability to interact with students, faculty, staff, parents, and attorneys; and to take initiative and solve problems is essential. Excellent communication and organizational skills, flexibility and patience also are necessary. Resume and three letters of recommendation required.

Technical Skills Specialist
930795. Engineering. Requirements: Minimum two years of college; bachelor's degree preferred; knowledge of personal computers and popular software; experience using a variety of microcomputer peripherals, such as modems and printers; must be physically able to lift system components; must be able to work evenings and weekends. Resume and three letters of recommendation required.

Clerical/Clerical Assistant
930032. Campus Stores. Requirements: High school diploma, two years of college preferred, typing 35 wpm with accuracy; good customer service attitude; general office skills and organizational skills; must be able to handle and balance funds, work quickly and accurately under pressure. Resume and three letters of recommendation required.

Technical Assistant
930035. Applied Research Lab. Requirements: Bachelor's degree; typing 50 wpm with accuracy; good customer service attitude; general office skills and organizational skills; must be able to handle and balance funds, work quickly and accurately under pressure. Resume and three letters of recommendation required.

Document Assistant
930048. Loan andzbond. Requirements: Must be a high school graduate; bachelor's degree preferred, typing 25 wpm with accuracy; strong communication and interpersonal skills; experience in clerical work and administration and administration and working with federal governmental agencies and foundations; PC word processing and spreadsheet skills; ability to organize and work under pressure during peak periods. Resume and three letters of recommendation required.

Contract and Grant Coordinator
930053. School of Social Work. Requirements: Bachelor's degree with accounting background; typing 40 wpm with accuracy; strong communication and interpersonal skills; experience in working with research and policy; PC word processing and spreadsheet skills; ability to organize and work under pressure. Resume and three letters of recommendation required.

FlierRoom Assistant
930045. Development Services. Requirements: High school diploma; cooperative attitude; must be able to work under pressure; must be dependable and community-oriented. Experience in interactive data entry experience; typing 30 wpm with accuracy. Clerical testing and three letters of recommendation required.

Rare Books Catalog Librarian
930056. Special Library. Requirements: MLS degree from ALA accredited library school; master's degree in the humanities desirable; academic library or equivalent cataloging training or experience with AACR2 and LC classification; rare books cataloging experience; practical and manuscript cataloging experience using AACM format; ability to work with non-English languages and non-Roman alphabets; working knowledge of OCLC and NUCED; familiarity with reference training or user service experiences; demonstrated knowledge of preservation procedures; and knowledge of national and international trends in bibliographic description desirable. Resume and three letters of recommendation required.

University Communications Secretary
930057. Public Affairs. Requirements: High school diploma; master's degree preferred; typed 50 wpm; 5 years of experience; duties include: clerical work in the office of a vice chancellor (dean); typing 50 wpm with accuracy; good verbal and written skills; ability to handle multiple tasks; completed secretarial and writing skills. Clerical testing, resume and three letters of recommendation required.

Lab Technician
930058. Biology. Requirements: Bachelor's degree; knowledge of all standard DNA procedures; PCR, microcentrifuge, electrophoresis. Resume and three letters of recommendation required.

Researcher
930061. Development Services. Requirements: Bachelor's degree, liberal arts background preferred; strong research and writing skills. Clerical testing, resume and three letters of recommendation required.

Secretary
930062. Mechanical Engineering. Requirements: Must be a high school graduate; typing 50 wpm with accuracy. Visitors to the department see this secretary upon entering the department office, very important that this individual be neat and professional. Clerical testing and three letters of recommendation required.

Switchboard Operator
930065. Telephone Services. Requirements: Must be a high school graduate; typing 25 wpm with accuracy. Duties: answer incoming calls to the University, transfer calls and provide information as requested using an online directory; place operator assistance orders over telephone. Resume and three letters of recommendation required.

Head Men's and Women's Track Coach
930066. Department of Athletics. Requirements: Bachelor's degree, master's degree preferred. Organization, administration and coaching of the men's and women's track and field programs, development and implementation of an organized recruiting program, budget management and adherence to NCAA and University Athletic Association policies; instruct selected activity classes in physical education program; and other responsibilities as designated by the associate director of athletics. An added responsibility will be men's and women's cross country if the person is qualified. Duties include maintaining track and field at the college or university level. Resume and three letters of recommendation required.

Senior Project Leader
930069. Business, Information Technology. Requirements: Minimum of four years of college; minimum five years data processing experience; prove ability to design, program and install main data processing systems; proven ability to lead others in data processing project development; proven ability to design, write and operate FO-CUS systems. Resume and three letters of recommendation required.

Receptionist
930070. Center for Engineering Computing. Requirements: Must be a high school graduate, four years of college preferred; guide hundreds of visitors annually through the office of admission; data entry on CRT of prospective student information; scheduling of appointments of prospective students with on-campus personnel; other projects and duties as assigned. Clerical testing and three letters of recommendation required.

PC Systems Manager
930071. Computing. Requirements: Minimum of one year of college, bachelor's degree preferred. Duties: Demonstrate a high level of skill in debugging and troubleshooting system setup and software installation problems; programming, software license administration, PC system management; UNIX file server management; print server management; software installation, upgrade and evaluations. Resume and three letters of recommendation required.

Dean
School of Architecture. Washington University invites nominations and expressions of interest for the dean of the School of Architecture. The School of Architecture has 17 full-time faculty and 38 affiliates and visiting faculty, 314 students and 2,100 alumni. Academic programs lead to the degrees of Bachelor of Arts with a major in Architecture, Master of Architecture, and Master of Architecture and Urban Design. Combined degree programs are offered with the

Employee open enrollment lasts until Oct. 30.

Now is the time to initiate changes, additions and terminations in health and dental coverage. During open enrollment, all employee beneficiaries will be able to change health coverage subject to the following rules:

- Employees and/or their dependents currently enrolled in a Washington University plan may use this opportunity to switch to a different HMO or the Pension Association of Missouri (PAM) health plan. They may also apply for coverage under the Blue Cross/Blue Shield plan by submitting a statement of health. If the statement of health is approved, coverage will begin the first day of the month following approval and a pre-existing condition clause will apply.
- Employees and/or their dependents currently enrolled in a Washington University health plan may use this opportunity to switch to a different plan without any interruption of coverage. They also may cancel or terminate any portion of all health coverage. This is a good time to examine dependent age limits.
- Current health coverage will continue unless action is taken to change coverage.

Remember: no changes, additions or deletions outside of enrollment period can be made unless initiated within 31 days of a family status change (marriage, birth, adoption, divorce, etc.).

In order to change plans and add dependents, or to make any plan changes, employees must complete a separate form. The deadline for changes is Oct. 31. Personnel in the Human Resources office is available to answer questions and provide additional information. The 1992 Health Fair will be held Oct. 14 and 15 in the Clayton/Lounge, Mallinckrodt Center. Representatives will be available from 9 a.m. to 2 p.m. and 4 p.m. to 7 p.m. Employees of Washington University may change plans between 8 a.m. and 5 p.m. Monday through Friday, and if interested may pick up an application and make an appointment to speak with one of the representatives.

Benefits change
There will be no changes this year in either the Partners' HMO or the Cross/Blue Shield health care plans. In the Group Health Plan, the preventive dental coverage plan remains unchanged. Dec. 1, 1992. Employees should enroll in the dental plan for 100 percent coverage on preventive (cleaning, checkups, etc.) coverage subject to reasonable and customary limits.

In the PM Major Medical plan, the Major Medical plan as secondary coverage to an HMO will be subject to additional restrictions. Employees first must pursue the treatment through the proper channels of the HMO provider. In other words, failure to seek a referral for those services in which referral is required could result in no payment by the Major Medical plan. A statement, which will remain in a file, will begin the first day of the month following approval and a pre-existing condition clause will apply.

Current health coverage will continue unless action is taken to change coverage.

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Health Fair
All representatives from the various carriers will be available to answer questions and provide additional information. The 1992 Health Fair will be held Oct. 14, 15 and 18 in the Clayton/Lounge, Mallinckrodt Center. Information will be available from 9 a.m. to 2 p.m. and 4 p.m. to 7 p.m. Feel free to stop by and ask any questions.

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