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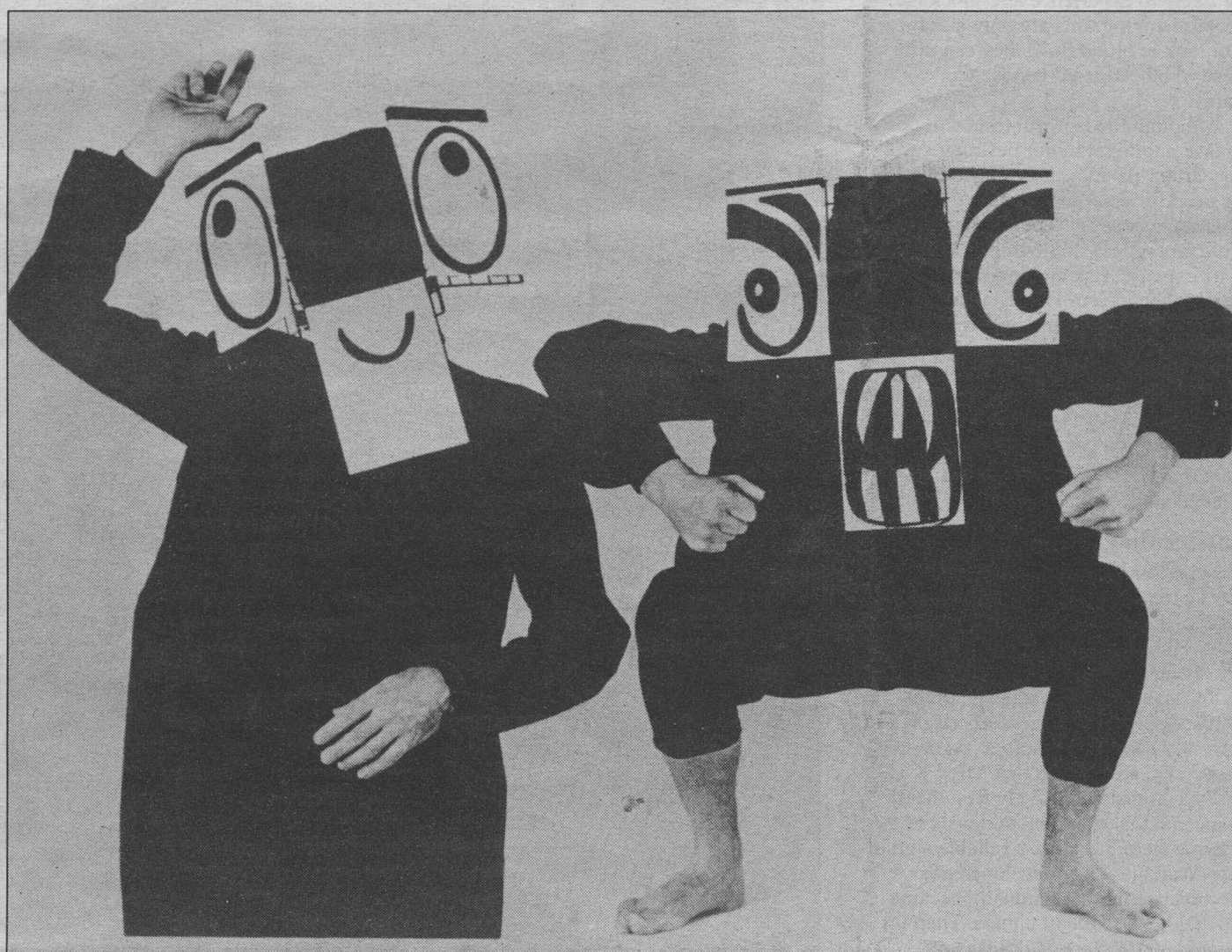
Washington University Record, February 18, 1993

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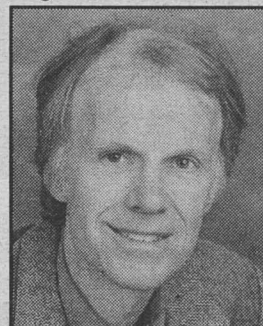


Masks, mime, movement and magic will mark Mummenschanz's performance titled "Parade" on Feb 26 and 27 at Edison Theatre. The Swiss-based troupe brings electric plugs, slinkies and giant, white-gloved hands to life in a special performance for the whole family. For more information, see story on page 6.

Professor Hirst named to Smith endowed chair

Derek M. Hirst, Ph.D., professor of history, has been named the William Eliot Smith Professor of History, announced Martin H. Israel, Ph.D., dean of the Faculty of Arts and Sciences.

Hirst, a specialist in the history of England, came to Washington University in



Derek M. Hirst

1975 as an assistant professor. Prior to joining Washington's faculty, he was a fellow and director of studies in history at Cambridge University from 1974-75. Hirst is the seventh faculty member to hold

the chair, which was established in 1921 to honor William Eliot Smith, a Washington University alumnus and Alton, Ill., businessman and philanthropist.

"Derek is an internationally recognized leader in a field that has always included the most pre-eminent members of the historical profession," said David T. Konig, Ph.D., chair of the Department of History.

Hirst's articles have appeared in *The Historical Journal*, *Journal of Modern History* and *The English Historical Review*. He is author of the books *Representative of the People and Authority and Conflict: England 1603-1660*. He also is at work on a book titled *The People's Good: The Kingless Years 1649-1660*.

Hirst, who is a fellow of the Royal Historical Society, has held a number of appointments, including: senior fellow at the National Endowment for the Humanities-Folger Library, 1979; Guggenheim fellow, 1981-82; visiting senior research fellow at Gonville and Caius College in Cambridge, England, 1981; and co-director

Continued on page 6

Refuting cultural myths

Race not a factor in romantic commitment, study shows

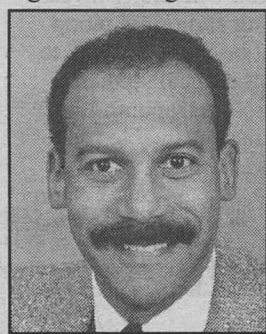
In a study that examined the level of romantic commitment among black and white college-aged couples, two researchers at Washington University found that the races are equally committed in dating relationships, despite a severe gender imbalance among blacks. In fact, the study reveals that attitudes toward commitment don't differ between the races, they differ between the sexes.

The study assessed "love, liking and commitment" in 20 black and 20 white dating couples; at least one member of each couple was in college. Larry E. Davis, Ph.D., associate professor of social work and psychology, and Michael J. Strube, Ph.D., professor of psychology, conducted the study. Their findings will be published this spring in the *Journal of Applied Social Psychology*.

The researchers had expected the lopsided gender ratio among blacks to affect their levels of commitment. Black men, Davis and Strube thought, would be less committed to their partners than white men were to theirs because black men face a relatively large pool of available dating partners. Davis and Strube point out that, excluding post-war shortages of men, the

American black population today has the severest shortage of men in a subcultural group in modern history. On a college campus, where the study was conducted, the female-to-male ratio among blacks is 2:1 and among whites it is 6:5. (In the general population, the ratio for blacks is 10:7 and for whites 10:9.)

Historically, social psychologists have argued that a significant gender imbalance



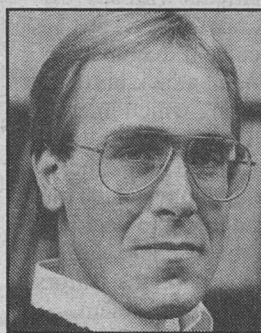
Larry E. Davis

creates social havoc. For example, Davis explains, the group in large supply, in this case black women, would be devalued and powerless, while the group in short supply, in this case black men, would steer away from commitment because of the great availability of romantic partners.

Yet despite the alarming gender imbalance, the researchers found no difference in commitment attitudes between blacks and

whites, a surprising and revealing finding, says Strube.

"What was surprising was that we didn't find even a hint of a difference between



Michael J. Strube

blacks and whites. Black men aren't playing the field like they could. They are a hot commodity, so to speak, given the relative numbers of black men available as dating partners. I think this says something very positive about blacks and romance. What we usually hear about black relationships is that women are heading households because men are dumping and leaving them. At least in terms of this demographic group, we can say it isn't happening," says Strube.

Both Davis, who is black, and Strube, who is white, say it is rare when researchers conducting a study find the absence of differences interesting.

As Strube notes, "Typically, researchers expect differences and are disappointed when they don't emerge. A lack of differences can occur for so many uninteresting reasons, such as a small sample or insensitive measures. It is only against the backdrop of other reliable differences in a study that a finding of no differences takes on meaning. Our study replicated the general relations between satisfaction, relationship alternative and commitment that have been found by other researchers. Consequently, it is difficult to argue that the design was insensitive to racial differences."

Continued on page 6

University designates former Famous-Barr site as West Campus

The former Famous-Barr building on Forsyth Boulevard, which Washington University now owns, has officially been designated the West Campus.

Furthermore, the University has begun "formulating plans for occupancy of the building," said Richard A. Roloff, executive vice chancellor. Officials have talked to several possible tenants, including Washington University department as well as retail store representatives, he added. "We also are rebuilding the building's mechanical systems so that departments and other types of users may occupy the property in the future."

The building's lower level will house the University Libraries' auxiliary facility, which is slated to open this summer and will be accessible from an eastern entrance. The facility will house lesser-used and more valuable older books and periodicals from various Hilltop libraries as well as gifts and materials that are now located in a storage facility at the Tyson Research Center in Eureka, Mo., about 25 miles away.

The materials will be shelved predominantly on open stacks, and individuals may go to the facility to pick up materials or request that materials be sent to them. The International Writers Center also will occupy part of the space on the lower level.

In This Issue...

Reliable indicator: New tests identify heart attack patients who are not responding to clot-busting drugs *Page 2*

"Heckava good" teacher: Michael J. Gast, Ph.D., associate professor, doesn't mind sacrificing his ego in the classroom *Page 3*

Literary couple: Portraits of Jarvis Thurston and Mona Van Duyn will be installed in Olin Library *Page 6*

Medical Update

Tests identify heart attack patients unresponsive to clot-dissolving drugs

School of Medicine researchers have developed blood tests that give physicians a quicker, safer way to identify heart attack patients who are not responding to clot-dissolving drugs. According to results of a recent large clinical trial, the tests reliably identify patients who will need more invasive therapy to restore blood flow to the heart. In addition, they do it within the time period when treatment is most effective, the investigators report.

When doctors administer the clot-dissolving drugs streptokinase or t-PA, they can count on the drugs restoring blood flow promptly in 50 or 75 percent of patients, respectively. But until now, an invasive X-ray imaging procedure called angiography had been the only reliable way to identify reperfusion — the return of blood flow — in a blocked artery. Angiography involves using a catheter to inject a special dye that highlights blood vessels on X-rays. The test is not always practical to perform during the early stages of an attack, and some hospitals do not have the necessary facilities, says Dana R. Abendschein, Ph.D., lead author of the study.

"The advantage of the tests we have developed is that they can be done quickly while the patient is still being treated with a thrombolytic (clot-dissolving) agent to identify those patients who will require additional invasive measures to restore flow to the heart. Then we will be able to administer invasive therapy within the four-hour window that's available to minimize heart damage," says Abendschein, research associate professor of medicine and of cell biology and physiology.

Abendschein presented the study's findings last November at the American Heart Association's annual scientific meeting in New Orleans. The study, part of the national multicenter Thrombolysis in Myocardial Infarction (TIMI) clinical trial, was conducted in collaboration with Washington University's Burton E. Sobel, M.D., professor of medicine and director of the Division of Cardiology, and Allan S. Jaffe, M.D., professor of medicine, and with investigators from Baylor University in Houston and Brigham and Women's Hospital in Boston. Abendschein directs the TIMI core laboratory that is evaluating the tests. He says that in the coming months the laboratory will publish data from several hundred additional patients.

The investigators monitored 176 patients for blood levels of two enzymes, MB creatine kinase (MB CK) and MM creatine kinase (MM CK). The enzymes leak from dying heart cells and wash out into the bloodstream as blood flow is restored to the heart. Once in the circulating blood, MM CK and MB CK undergo subtle chemical changes: the amino acid lysine is clipped first from one chain of the enzyme molecule and then from the other chain. The result is several sister forms, called isoforms, distinguished by whether they carry both lysines, one or neither. Abendschein and his colleagues developed tests that distinguish between the "tissue" isoform — the original form carrying both lysines — and the other isoforms. The tests yield results within 30 minutes.

The investigators found that by monitoring isoform levels for certain characteristic changes, they could reliably determine whether blood flow had been restored to the heart. They used angiography as the standard for comparison. Of the patients who had open arteries, 91 percent were correctly identified by measuring how quickly the tissue form of MM CK rose compared with total MM CK. Eighty-one percent of the same group were correctly identified by monitoring ratios of the tissue form of MB CK to its isoforms. The two tests were even more powerful when used together,

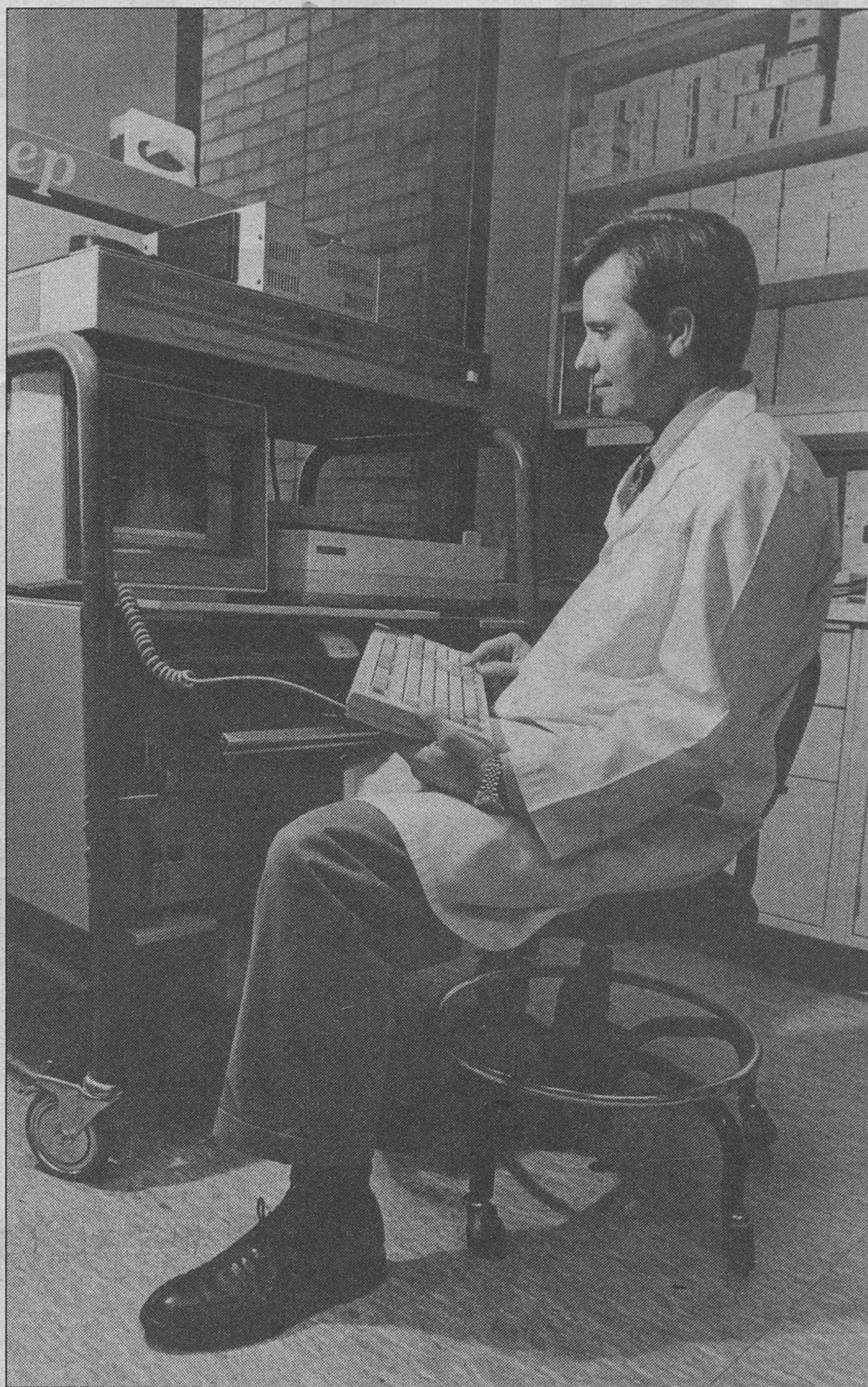
Abendschein says. In addition, the researchers are evaluating other markers that may help determine which patients are likely to experience a re-blockage. Because angiograms are only a snapshot look at blood flow, they can miss these re-blockages, Abendschein explains.

Although the isoform tests will not replace angiography for defining coronary artery patency, they may reduce the need for emergency angiography, Abendschein says. "The trend now is to avoid emergency angiography because of its expense, risk and logistic complexity. The idea of having a non-invasive test that would help to identify the patients that have a high need for catheterization is very reasonable and responsive to the system as it is currently being used," he says. Hospitals could adopt the tests easily with equipment that is now commercially available, he adds.

Earlier diagnosis

The creatine kinase enzyme already plays a major role in assessing heart attacks, the nation's leading cause of death. Assays that measure total MB CK levels — all isoforms included — are the standard for diagnosis. In the 1970s, Sobel and Robert Roberts, M.D., currently head of cardiology at Baylor University, recognized that MB CK is derived almost exclusively from heart tissue and that rising blood levels of the enzyme were therefore a reliable sign of heart damage. They developed assays for the enzyme that gradually became the diagnostic tests of choice. Then in the mid 1980s, Jack H. Ladenson, Ph.D., professor of medicine and pathology at Washington University, developed a monoclonal antibody that recognized MB CK. The finding made testing for the enzyme more clinically practical for diagnosis, because monoclonal antibodies lend themselves to fast, automated analytical tests. Washington University licensed the monoclonal technology to several companies. Today, about half the hospitals in the country have adopted automated MB CK assays for diagnosing heart attacks.

Although the automated approach is a significant advance, problems remain. About four in 10 patients with suspected heart attack are difficult to diagnose, and the current diagnostic tests do not confirm an attack until after the time window during which intervention is most effective. As a result, the tests are used primarily to guide the later stages of care, and physicians must rely on their best judgment to decide on initial treatments. Abendschein, Jaffe and Sobel are now applying the isoform strategy to get around this problem. They have found that by sequentially monitoring the relative ratios of MM



Dana R. Abendschein, Ph.D., says the test that he and his colleagues have developed can reliably identify patients who will need more invasive therapy to restore blood flow to the heart.

CK isoforms, they can detect the presence of a heart attack even before the total MB CK rises above statistically defined normal levels. Clinical trials now under way suggest that this approach may permit diagnosis earlier, Abendschein says.

In some patients, medical problems such as hypothyroidism, renal failure, and diseases involving chronic muscle damage can cause elevated levels of MB CK, even in the absence of heart damage. The Washington University investigators are evaluating additional blood markers that might be more specific to heart injury. Recent clinical studies indicate that the protein troponin I is likely to be particularly valuable in these settings, Jaffe says.

— Juli Leistner

Volunteers needed for diabetes study

Researchers at the School of Medicine need volunteers for several studies involving new diabetes treatments.

In one study, researchers will evaluate a technique designed to prevent and reverse early kidney and eye damage in patients with insulin-dependent diabetes. Diabetes is a leading cause of vision loss and kidney failure.

Julio Santiago, M.D., professor of medicine and pediatrics, is the principal investigator in the study, which involves a new form of insulin replacement. The new form of insulin replacement more closely resembles the body's normal insulin production than current forms of treatment and is given with a small infusion pump about the size of a portable paging device.

Santiago's study will use the insulin infusion pump to deliver a combination of insulin and a normal product of insulin-

producing cells. Preliminary studies indicate that this combination may reduce or reverse blood vessel leakage in the kidneys and eyes of patients with diabetes.

Study participants will receive medical examinations and free insulin infusion pumps with instruction on how to use them. In addition, volunteers who complete the two-month study will receive \$1000.

Those eligible will be admitted to the research unit at Washington University three times for one-day stays during the course of the study. To be eligible, subjects must have been diagnosed with insulin-dependent diabetes before age 30 and must have been on insulin for at least five years. Persons with advanced eye or kidney problems are not eligible. For more information call 454-2720.

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 **Washington**
WASHINGTON UNIVERSITY IN ST. LOUIS

Washington People

Gast turns small steps into great strides

Michael J. Gast says he's at Washington University by mistake. When he came to the School of Medicine in July 1973 to enter a residency program in obstetrics and gynecology, he thought he was following in the footsteps of his Ohio State University medical school adviser, John Boutselis, M.D. "My adviser said to go to St. Louis, so I naturally thought of Washington University," says Gast, an M.D., Ph.D., who is an associate professor of obstetrics and gynecology at the medical school. "I came here, interviewed, and I really was impressed with the facilities and with Dr. Jim Warren, who was chairman of obstetrics and gynecology at the time."

When Gast received his letter of acceptance from Washington University, he ran to his mentor's office and said, "I made it. I got St. Louis!" What Gast didn't realize was that his adviser had graduated from St. Louis University. Boutselis looked at the acceptance letter, slapped his forehead and said, "You moron. You went to the wrong medical school."

A master at crafting a good story, Gast's talents also abound in the halls of medicine where he is a respected clinician, researcher, teacher and, more recently, administrator. As director of the medical school's Division of Reproductive Endocrinology and Infertility, Gast runs administrative interference for junior faculty members so they can focus on cutting edge research.

"Keeping up with reproductive medicine

is a constant challenge because things change on a daily, even hourly, basis," says Gast. "The challenge for us is to keep our operation at the cutting edge scientifically and clinically. Another real challenge, with the growth of our division in the last couple of years, is just trying to keep up with these very bright and very active younger faculty."

Gast, whose chaotic schedule frequently demands he be in three places at once, is only half joking when he says 80 percent of his time is spent in the clinic, 30 percent in research, 20 percent in teaching and 50 percent in administration. "I just kind of spin in and out of this office," he says. "When my life seems to be out of control is when I'm happiest."

Gast sees patients in his office three days a week and performs surgery three days a week. He also does basic research on the endocrinology of infertility, specifically disorders of the pituitary, thyroid and ovary, in the laboratory of Arnold W. Strauss, M.D., professor of pediatrics and of biochemistry and molecular biophysics.

In addition to basic research, he oversees clinical studies on male infertility, donor insemination, new techniques in endoscopy and ovulation induction agents.

Although he considers himself a "fair" doctor and an "acceptable" researcher, Gast says without question he is one "heckava good" teacher. What makes him so, he says, is that he must work his way slowly through the learning process. "I don't make the leaps of faith that we see sometimes here at Washington University," he said. "One of the spectacular experiences about being at graduate school here was being able to work with some of the brightest people in the universe. The basic scientists at Washington University, in my estimation, are unequaled on the planet in terms of their incisiveness and their ability to define and solve problems."

"But sometimes it's tough to follow really bright people because they skip over a lot of stuff that the rest of us mortals need to go through step-by-step. I'm a plodder. When I go across a room, I don't suddenly

leave one spot and appear in another. I have to take it in little tiny steps. Long ago I recognized that, and I realized that other people had to do that too. So, when I give lectures I try to use very concrete examples and I try to take people through things in very tiny steps. I step back and conceptualize things; I don't get lost in the mechanics but develop an overview."

When Gast finishes a lecture, he said he hopes one of three things has taken place: People have had a very good time, people understand three or four core concepts he was trying to get across, or, people have had a very good time.

"I'm easy for people to listen to and that's the bot-

approach," Gast explains. "When I talk, I use the term 'we' a lot instead of 'I' because people don't want to feel they're being talked down to."

Though he's been teaching for years, Gast only recently realized he had a gift when he saw a lecture that he had given some years ago written on a blackboard in a classroom at Jewish Hospital. He speculates that it was passed down from medical residents who heard him present it years ago.

Not only do his lectures replay throughout the medical center, they also make their way to major U.S. cities. Last year, Gast was in Washington, D.C., presenting a talk at an institution where two former colleagues and a

fellow who had worked with him were practicing. At the end of his presentation, a nurse in the audience approached him to ask his advice about a lecture on infertility she was preparing. After speaking with her for a few minutes, Gast recognized the lecture as his. "To have that kind of longevity, you've got to be doing something right," he says.

A frequent lecturer both in and outside of medical circles, Gast has spoken in more than 30 states, one territory and two foreign countries. In the St. Louis area, he visits grade schools to talk to children about reproduction; and high schools to talk to teens about sexuality and contraception. "I usually have a lot of fun when I'm lecturing, and that

seems to work out well with the (younger) kids," he says. "I think learning has to involve having fun or there's no point in doing it. Even when I'm teaching medical students, I find I can do things in an informal setting that I can't do in your standard formal, stodgy, kind of setting."

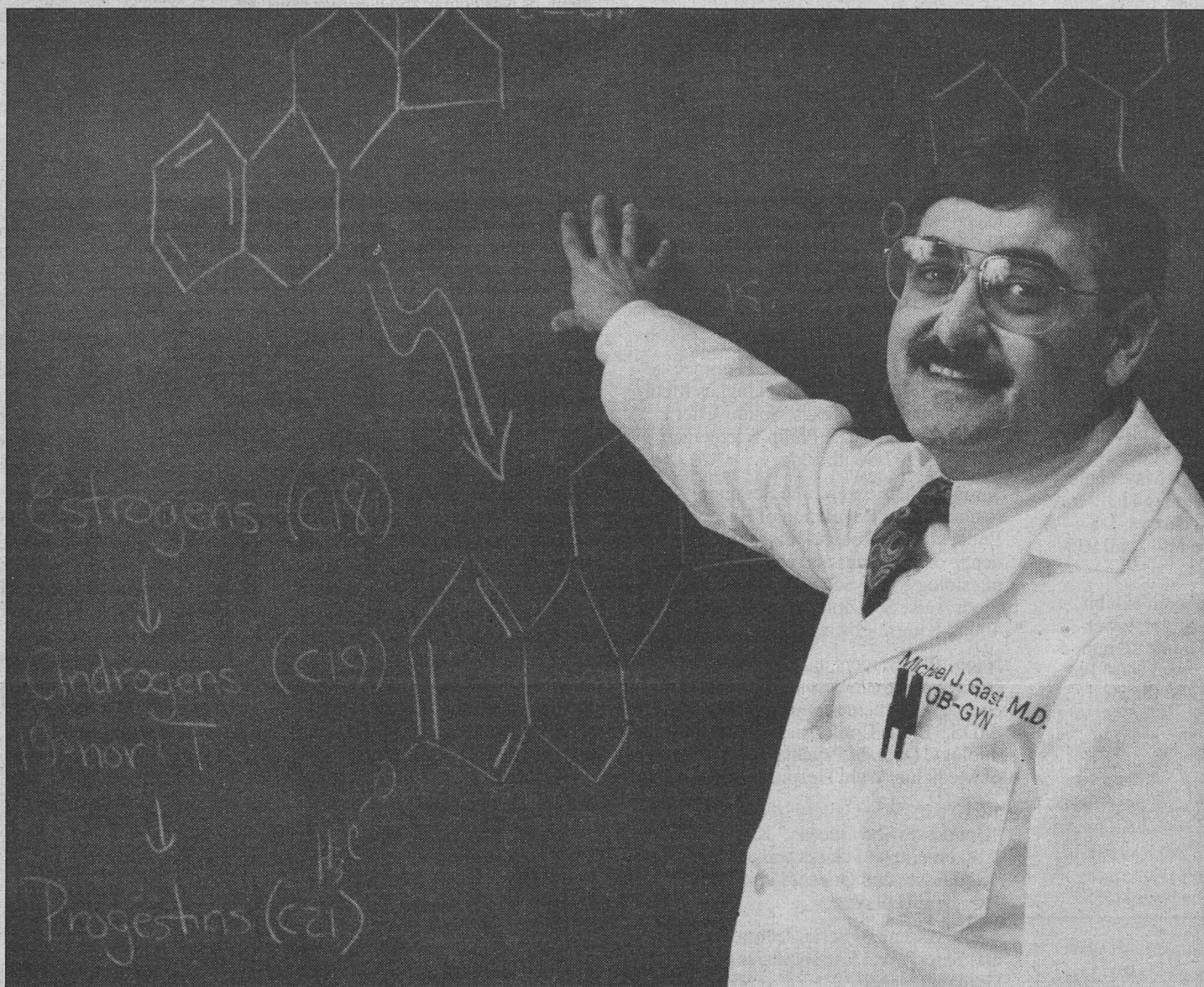
Working in reproductive medicine, where expectations are high and technological innovations come quickly, obviously agrees with Gast; he thrives under pressure. In recent years, the pressure has become even more intense because of the increasing focus on successfully treating infertility. Procedures such as in vitro fertilization and gamete intrafallopian transfer, which were introduced five or six years ago, today are staples in the armamentarium against infertility. In addition, endoscopic surgeries through the laparoscope, hysteroscope and falloscope were performed in modest numbers five years ago, but now comprise 98 percent of all the division's surgical cases.

"The last decade has brought an enormous increase in the focus on infertility work," Gast says. "We're seeing more and more infertile couples — it's literally become an epidemic — for several reasons. Women who were starting families in their early 20s are postponing them until their late 30s, and the rate of infertility more than doubles between those two age groups."

"Also, we've created a market for infertility," he continues. "In 1980, there was a limit to what we could do to treat infertility. But now we can address so many more problems and we have so many more solutions. Diagnostically and therapeutically we can do more, and into those areas has flooded a huge population of people that 10 years ago would never have seen us because we couldn't do anything for them."

Gast says what he enjoys most about working with infertile couples is that each case is different. "Each person is like a little internal mystery, a puzzle that has to be solved, and I like that," he says. "I like watching things develop longitudinally and answering the little questions that make up the big question."

— Kleila Carlson



"Keeping up with reproductive medicine is a constant challenge because things change on a daily, even hourly, basis."

tom line," he says. "I don't try and overload them with information, and I'm not capable of taking the kinds of leaps that are going to lose them in explanations."

Eric Reinertson, M.D., a resident in obstetrics and gynecology who works with Gast, says one of his teacher's strong suits is that he can simplify complex topics so that almost anyone can understand.

"He makes it much easier to learn difficult material because he can take complicated topics and simplify them," says Reinertson, who came to the School of Medicine on Gast's recommendation after graduating from the University of North Dakota. "He's a strong advocate for residents and medical students and is very objective and kind during performance evaluations and critiques."

"Dr. Gast is very personable and easy to get along with, and he helps keep the atmosphere light with his jokes and stories. He's just really great to work with."

One of the keys to Gast's success in the classroom is that he doesn't mind sacrificing his ego. When he teaches, he starts from the premise that his students are as good at what they do as he is at what he does. "Too often, lecturers have the attitude 'I'm important, therefore you have to listen to me.' That's never been my

Calendar

Feb. 18-27



Exhibitions

"Perspectives: Jarvis Thurston and Mona Van Duyn." Exhibit opening: March 1. Exhibit continues through May 7. Olin Library, Special Collections, Level 5. Hours: 8:30 a.m.-5 p.m. weekdays. For more info., call 935-5495.

"Fifteenth Annual High School Art Competition." Through Feb. 24. Bixby Gallery, Bixby Hall. Hours: 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-6597.

"Bruce Nauman: Light Works." Through March 21. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4523.

"Works of Graphic Satire." Through Feb. 19. Olin Library, Special Collections, Level 5. Hours: 8:30 a.m.-5 p.m. weekdays. For more info., call 935-5495.

"Washington University Art Collections — 19th- and 20th-century European and American Artists." Through May. Gallery of Art, lower gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4523.

"Goddesses and Queens" coin exhibit. Through July 3. Gallery of Art, lower gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4523.



Films

Friday, Feb. 19

6:30 and 9:30 p.m. Filmboard Feature Series presents "Apocalypse Now." (Also Feb. 20, same times, and Feb. 21, 7 p.m.) Room 100 Brown Hall. Cost: \$3. **For 24-hour Filmboard hotline, call 935-5983.**

Midnight. Filmboard Midnight Series presents "The Master Killer." (Also Feb. 20, same time, and Feb. 21, 9:30 p.m.) Room 100 Brown Hall. Cost: \$3.

Monday, Feb. 22

7 and 9 p.m. Filmboard Classic Series presents "Kismet." (Also Feb. 23, same times.) Room 100 Brown Hall. Cost: \$3.

7 p.m. Dept. of Asian and Near Eastern Languages and Literatures Near Eastern Film Series presents "al-Araguz" (with English subtitles). Room 219 South Ridgley Hall.

Wednesday, Feb. 24

7 p.m. Dept. of Asian and Near Eastern Languages and Literatures Middle Ages Film Series presents "Thomas à Beckett." Room 219 South Ridgley Hall.

Thursday, Feb. 25

7 p.m. Dept. of Asian and Near Eastern Languages and Literatures Chinese Film Series presents "His Son's Big Doll" (Taiwanese with English subtitles). Room 219 South Ridgley Hall.

Friday, Feb. 26

7 and 9:30 p.m. Filmboard Feature Series presents "The Princess Bride." (Also Feb. 27, same times, and Feb. 28, 7 p.m.) Room 100 Brown Hall. Cost: \$3.

Midnight. Filmboard Midnight Series presents "Top Secret." (Also Feb. 27,

same time, and Feb. 28, 9:30 p.m.) Room 100 Brown Hall. Cost: \$3.



Lectures

Thursday, Feb. 18

10 a.m. Division of Biology and Biomedical Sciences M.A./M.D. Program thesis defense, "Structure and Function of the Murine β -globin Locus Control Region 5'HS-3," Bruce Hug. Room 816 McDonnell Medical Sciences Bldg.

Noon. Dept. of Genetics seminar, "Ring Canals and Actin Filaments in *Drosophila* Oogenesis," Lynn Cooley, Yale U. Room 816 McDonnell Medical Sciences Bldg.

Noon. Dept. of Molecular Biology and Pharmacology lecture, "Spontaneous Inflammatory Disease in HLA-B27 Transgenic Rats," Robert E. Hammer, Dept. of Genetics, Howard Hughes Medical Institute, U. of Texas, Southwestern Medical Center. The Philip Needleman Library, 3907 South Bldg.

Noon. Pediatric Research Seminar, "Tyrosine Kinase Regulation of Receptor Endocytosis," Robert Fallon, asst. prof., depts. of pediatrics and cell biology and physiology, WU School of Medicine. Third Floor Aud., St. Louis Children's Hospital, 400 S. Kingshighway.

Noon. WU Student and Employee Health Service and the Office of Women in Science and Medicine seminar, "Women and AIDS," Linda Cottler, asst. prof. of epidemiology, Dept. of Psychiatry, WU School of Medicine. Wohl Hospital Bldg. Aud.

12:10 p.m. WU Gallery of Art lecture, "Goddesses and Queens," Kevin Herbert, prof. emeritus of classics and curator of "Goddesses and Queens" coin exhibit. Steinberg Hall Aud.

4 p.m. Assembly Series lecture, "Hot, Sexy and Safer," Suzi Landolphi, sex educator. Graham Chapel.

4 p.m. Central Institute for the Deaf Research Seminar, "Assessing the Benefits of Cochlear Implants in Children: Results After the First Year," Ann Geers, director, Clinical Services, CID. Second Floor Aud., CID Clinic Research Bldg., 909 S. Taylor Ave.

4 p.m. Dept. of Chemistry seminar, "Condensed Phase Photochemistry of Chlorine Dioxide," John Simon, U. of California, San Diego. Room 311 McMillen Laboratory. (Coffee: 3:40 p.m.)

4 p.m. Division of Biology and Biomedical Sciences Student-sponsored seminar, "Chemical and Pharmacological Prospecting in the World of Plants," Norman Farnsworth, U. of Illinois, Chicago, Program for Collaborative Research in the Pharmaceutical Sciences and World Health Organization-Collaborating Centre for Traditional Medicine. Erlanger Aud., McDonnell Medical Sciences Bldg.

4 p.m. European Studies Program, Committee on Comparative Literature, Dept. of Music and Assembly Series present a lecture, "Regulated Anarchy: John Cage's 'Europeras' and the Aesthetics of Opera," with Herbert Lindenberger, prof. of English and comparative literature, Stanford U. Hurst Lounge, Room 201 Duncker Hall.

4:15 p.m. Dept. of Philosophy colloquium, "Argumentation and Social Epistemology," Alvin Goldman, prof. of philosophy, U. of Arizona. Stix International House, 6470 Forsyth Blvd.

4:30 p.m. Dept. of Mathematics colloquium with Shanshuang Yang, prof., U. of California, Los Angeles. Room 199 Cupples I Hall. (Tea: 4 p.m., Room 200.)

Friday, Feb. 19

9:15 a.m. Pediatric Grand Rounds, "Interventional Cardiac Catheterization in Children: A Collaborative Approach to Complex Heart Disease," Nancy D. Bridges, asst. prof., Dept. of Pediatrics, WU School of Medicine; and director, Cardiac Catheterization Laboratory, St. Louis Children's Hospital. Clopton Aud., 4950 Children's Place.

Noon. Dept. of Cell Biology and Physiology seminar, "The Role of Nitric Oxide in Long-term Potentiation," Dan Madison, Dept. of Molecular and Cellular Physiology, Stanford U. Room 423 McDonnell Medical Sciences Bldg.

1 p.m. Solid-state Engineering and Applied Physics seminar, "How Does the Engineering Student Adapt to the Real World as a Project Engineer in an Electrical Contracting Company?" T.S. Barry, graduate student, Dept. of Electrical Engineering. Room 305 Bryan Hall.

4 p.m. Dept. of Earth and Planetary Sciences colloquium, "Mantle Structure and Composition: Perspectives From Seismology and Mineral Physics," Craig R. Bina, asst. prof., Northwestern U., Chicago. Room 361 Natural Sciences Bldg.

4 p.m. Dermatology Research Seminar, "Plaque-forming Capacity of Different Desmosomal Cadherins: Examination by Expression of Chimeric Junction Proteins," Sergey Troyanovsky, German Cancer Research Center. Room 7706 Wohl Hospital Bldg.

4 p.m. Microbial Pathogenesis Seminar Series presents "Iron Transport and Virulence in *Vibrio Cholerae*," Shelley Payne, Dept. of Microbiology, U. of Texas, Austin. Room 322 Rebstock Hall.

4:30 p.m. Dept. of Mathematics colloquium with Lucas Hsu, prof., Institute for Advanced Studies, Princeton U. Room 199 Cupples I Hall. (Tea: 4 p.m., Room 200.)

Saturday, Feb. 20

9 a.m. Dept. of Anatomy and Neurobiology seminar, "Regeneration in the Bird Inner Ear," Douglas Cotanche, Boston U. Erlanger Aud., McDonnell Medical Sciences Bldg.

11 a.m. Master of Liberal Arts Program and University College Saturday Seminars present "Modern Jewish Experience: The Westward Pursuit," Benjamin Taylor, asst. prof., WU Dept. of English. Women's Bldg. Lounge.

1-4 p.m. African and Afro-American Studies program presents a symposium, "Richard Wright and the 1950s" with panelists Julia Wright, Richard Wright's daughter, who is working on a memoir of her father and who will discuss the final decade of his life; Ollie Harrington, cartoon artist, fellow expatriate; Gerald Early, prof. of English and African and Afro-American studies, WU; Amrit Singh, prof. of English, Rhode Island College; and Lynn Weiss, visiting asst. prof. of English and African and Afro-American studies, WU. Women's Bldg. Lounge.

Monday, Feb. 22

4 p.m. Dept. of Biology seminar, "Evolution in the Salamander Genus *Ensatina*, a Ring Species: Weak Links and Species Concepts," David Wake, Museum of Vertebrate Zoology and Dept. of Integrative Biology, U. of California, Berkeley. Room 322 Rebstock Hall.

4 p.m. Dept. of Psychology colloquium with Judith Smetana, prof. of education, psychology and pediatrics, U. of Rochester, N.Y. Room 102 Eads Hall. (Reception immediately following in Room 218.)

4 p.m. Immunology Program seminar, "Calcineurin and NF-AT as Sequential Intermediates in Signal Transduction," Gerald Crabtree, assoc. prof. of pathology, Howard Hughes Medical Institute, Stanford U. Third Floor Aud., St. Louis Children's Hospital, 400 S. Kingshighway.

4:30 p.m. Dept. of Mathematics colloquium, "Functions Approximable by Polynomials in the Mean and Their Bound-

ary Values," Liming Yang, prof., Virginia Polytechnic Institute and State U. Room 199 Cupples I Hall. (Tea: 4 p.m., Room 200.)

7:30 p.m. Dept. of Germanic Languages and Literatures lecture, "Die Schauspielerin Zwischen Repraesentation und Prostitution: Zur Geschichte der Weiblichen Buehnenkunst," Renate Möhrmann, prof. of theater, film and television, U. of Cologne, Germany. Stix International House, 6470 Forsyth Blvd.

Tuesday, Feb. 23

12:10 p.m. Program in Physical Therapy Brown Bag Research Seminar, "Effect of Abdominal Contraction on the Infrastrernal Angle," Renee Zoeller, Orthopedic Division, Barnes Physical Therapy. Steven J. Rose Conference Room, third floor, East Bldg.

4 p.m. Dept. of Molecular Microbiology seminar, "Regulation of Splicing of RNAs Encoding the Nonstructural Proteins of the Autonomously Replicating Parvovirus MVM," David Pintel, Dept. of Molecular Microbiology and Immunology, U. of Missouri, Columbia, School of Medicine. Room 775 McDonnell Medical Sciences Bldg.

Wednesday, Feb. 24

8 a.m. Dept. of Obstetrics and Gynecology Grand Rounds, "Sex, Drugs and the Consequences," Scott Biest, chief resident, Dept. of Obstetrics and Gynecology, WU School of Medicine. Clopton Aud., 4950 Children's Place.

11 a.m. Assembly Series presents the Thomas D. Fulbright Lecture in American History, "Realism and Idealism in the Founding of the Nation: Franklin in Paris and the Bill of Rights," Bernard Bailyn, author of *The Ideological Origins of the American Revolution* and Adams University Professor and James Duncan Phillips Professor of Early American History, Harvard U. May Aud., Simon Hall.

Thursday, Feb. 25

Noon. Dept. of Molecular Biology and Pharmacology seminar, "Genetic Manipulation of Mammalian CNS Development," Harry T. Orr, prof., Dept. of Laboratory Medicine and Pathology, U. of Minnesota, Minneapolis. Molecular Biology and Pharmacology Library, Room 3907 South Bldg.

Noon. WU Student and Employee Health Service and Office of Women in Science and Medicine seminar, "Implications of Postponing the Decision to Have Children," Diane Merritt, instructor, Division of Endocrinology and Infertility and head of Pediatric and Adolescent Gynecology, WU School of Medicine. Wohl Hospital Bldg. Aud.

12:10 p.m. Gallery of Art gallery talk, "Bruce Nauman: Light Works," Chris Scoates, curator, Gallery of Art. Steinberg Hall Aud.

2:30 p.m. Dept. of Mechanical Engineering colloquium, "A Calibration Technique for Industrial Robots Designed to Carry Out Tasks With High Absolute Accuracy," E. Reithmeier, manager, Development/Design, Automation and Medical Technology Division, Bodenseewerk Geratetechnik GmbH, Germany. Room 100 Cupples II Hall.

Calendar guidelines

Events sponsored by the University — its departments, schools, centers, organizations 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 time, date, place, sponsor, title of event, name of speaker(s) and affiliation, and admission cost. Quality promotional photographs with descriptions are welcome. Send items to Marie Doss at Box 1070 (or via fax: 935-4259). Submission forms are available by calling 935-8533.

The deadline for all entries is noon Tuesday one week prior to publication. Late entries will not be printed. The Record is printed every Thursday during the school year, except holidays, and monthly during the summer. If you are uncertain about a deadline, holiday schedule, or any other information, please call 935-8533.

4 p.m. Central Institute for the Deaf Research Seminar, "Distortion Product Otoacoustic Emissions: New Information on Rate of Growth and Related Clinical Issues," Gerald R. Popelka, prof. and head of audiology, CID. Second Floor Aud., CID Clinic Research Bldg., 909 S. Taylor Ave.

4 p.m. Dept. of Chemistry seminar with John Alexander, State U., N.Y. Room 311 McMillen Laboratory. (Coffee: 3:40 p.m.)

4 p.m. Dept. of Mathematics colloquium, "Kumor Machine: Learning Math With Silicon Paper," Takayuki Kimura, assoc. prof., WU Dept. of Computer Science. Room 199 Cupples I Hall. (Tea: 3:30 p.m., Room 200.)

7:30 p.m. Dept. of History Lecture, "But a Common Man: The Paradox of Daniel Boone," John Mack Faragher, prof. of history, Mount Holyoke College, and author of *Women and Men on the Overland Trail*. Missouri Historical Society is co-sponsoring the lecture. Library and Collections Center, 225 S. Skinker Blvd.

Friday, Feb. 26

9:15 a.m. Pediatric Grand Rounds, "Endocrine Evaluation of Short Stature: The High Tech Approach. How Does It Help?" Dennis M. Bier, prof., depts. of pediatrics and medicine, WU School of Medicine and director, Pediatric Clinical Research Center, St. Louis Children's Hospital. Clopton Aud., 4950 Children's Place.

Noon. Academic Women's Network seminar, "Women Scientists in Industry: Life at Monsanto Company," Una Ryan, research prof., depts. of cell biology and physiology, medicine and surgery, WU School of Medicine; Kelleen Giffin, research specialist, Monsanto; Gwen Krivi, senior fellow, Monsanto; and Karen Seibert, senior research biologist, Monsanto. Erlanger Aud., McDonnell Medical Sciences Bldg.

Noon. Dept. of Cell Biology and Physiology seminar, "Effects of Hormones, Growth Factors and Oncogenes on the Intracellular pH Dependence of Na-H Exchange," Walter F. Boron, Dept. of Cellular and Molecular Physiology, Yale U. School of Medicine. Room 423 McDonnell Medical Sciences Bldg.

1 p.m. Solid-state Engineering and Applied Physics seminar, "Models for Plasma Etching of Semiconductors," Barbara Abraham-Shrauner, prof., WU Dept. of Electrical Engineering. Room 305 Bryan Hall.

2 p.m. Dept. of Chemistry seminar, "Molecular Route to Ceramics. Catalytic Activation of Silicon-carbide Precursors," Joel Moreau, directeur de recherche, CNRS, U. of Montpellier 2, France. Room 311 McMillen Laboratory. (2 p.m. time is tentative; call 935-6530 for an update.)

Saturday, Feb. 27

11 a.m. Master of Liberal Arts Program and University College Saturday Seminar Series present "The Green, the Black, and the White: Building Urban Community in New York City in the Era of the American Civil War," Iver C. Bernstein, assoc. prof., WU Dept. of History. Women's Bldg. Lounge.



Music

Friday, Feb. 19

8 p.m. Dept. of Music presents the WU Music Ensemble concert, "England c. 1550-1700: Music for Church and Chamber," directed by Donna Di Grazia. Graham Chapel.

8 p.m. Student Union and the Council of Students of Arts and Sciences present a concert, "Jammin' Toast '93" with performances by the WU Pikers, the WU Greenleafs, the Spizwinks(?) of Yale U. and the U. of Illinois' Other Guys. (Also Feb. 20, same time.) Edison Theatre. Cost: \$5 for the general public; \$2 with a WU ID. For more info., call 935-1414 or 935-2017.

Sunday, Feb. 21

7:30 p.m. Dept. of Music presents the WU Symphony Orchestra Concert, directed by Dan Presgrave, with piano soloist Carolbeth True. The program will include:

Suite from "The Three-Cornered Hat" by de Falla, Symphony No. 8 by Dvorak, and Piano Concerto in G by Ravel. Main Aud., St. Louis Conservatory and Schools for the Arts (CASA), 560 Trinity Ave.

Friday, Feb. 26

8 p.m. Dept. of Music presents a voice recital with Stephanie Campbell, mezzo-soprano. Second Presbyterian Church, 4501 Westminster Place.

Sunday, Feb. 28

2:30 p.m. Dept. of Music presents the WU Wind Ensemble, directed by Dan Presgrave, and the WU Jazz Band. Saint Louis Art Museum Theatre.

8 p.m. WU Gallery of Art and the New Music Circle present the New Music Circle concert with David Behrman, pioneer of interactive electronic music, and Ben Neill, mutantrumpet player. Steinberg Hall Aud. Cost: \$10 for the general public and \$6 for students, seniors and WU faculty and staff.



Performances

Friday, Feb. 19

8 p.m. Performing Arts Dept. presents a play, "Hedda Gabler" by Henrik Ibsen. (Also Feb. 20, 26, 27, same time; Feb. 21, 7 p.m.; and Feb. 28, 2 p.m.) Drama Studio, Room 208 Mallinckrodt Center. Cost: \$7 for the general public; \$5 for students, seniors and WU faculty and staff. For more info. and reservations, call 935-6543.

Sunday, Feb. 21

7 p.m. Quest for Success presents "Black Anthology: The Black Man and the Black Woman," a student production. Edison Theatre. Cost: \$5. For more info., call 935-5037.

Friday, Feb. 26

8 p.m. Edison Theatre "OVATIONS!" Series presents the Swiss mask-mime troupe in "The Best of Mummenschanz Plus." (Also Feb. 27, 2 p.m. and 8 p.m.) Edison Theatre. Cost: \$20 for the general public; \$15 for seniors and WU faculty and staff; and \$10 for students. For more info. or reservations, call 935-6543.



Miscellany

Monday, Feb. 22

7:30-9 p.m. University College presents a short course, "Arthur Holly Compton and the Development of Quantum Theory," Michael Friedlander, prof., WU Dept. of Physics. (Continues March 1 and 8, same time.) Cost: \$55; \$30 for elementary and secondary school teachers. For more info., call 935-6788.

Friday, Feb. 26

Noon. Women's Studies Program is sponsoring the Women Faculty Brown Bag Lunch. Women's Bldg. Lounge. For more info., call 935-5102.

7:30 p.m. WU Libraries' Bookmark Society and the Dept. of English present a reading, "An Evening With Mona Van Duyn and Jarvis Thurston," Mona Van Duyn, U.S. poet laureate, and Jarvis Thurston, prof. emeritus of English. Harris Reading Room, Olin Library, Level 4. (Exhibit opening immediately following in Special Collections, Level 5.)

Saturday, Feb. 27

6:30 p.m. The Black Alumni Council of WU presents the Fifth Annual Scholarship Celebration, "Partnerships for Change," Leroy D. Nunery, director and manager of Public Finance, Swiss Bank Corporation, and WU alumnus. Stouffer Concourse Hotel, 9801 Natural Bridge Rd. Cost: \$30 per person. For more info., call 935-5645.

Historian to discuss Bill of Rights

Historian Bernard Bailyn will give the first Thomas D. Fulbright Lecture in American History at 11 a.m. Wednesday, Feb. 24, in May Auditorium, Simon Hall. His lecture, "Realism and Idealism in the Founding of the Nation: Franklin in Paris and the Bill of Rights," is part of the Assembly Series.

Bailyn also will participate in an informal discussion led by Professor David



Bernard Bailyn

Konig, Ph.D., chair of the Department of History, at 2 p.m. in Room 113 Busch Hall. Both the lecture and discussion are free and open to the public.

Bailyn, Adams University Professor and James Duncan Phillips Professor of Early American History at Harvard University, has dominated the field of colonial and Revolutionary America for the past 25 years. He won two Pulitzer Prizes — one for *The Ideological Origins of the American Revolution* (1968) and another for *Voyagers to the West* (1987). Other honors include a National Book Award in history for *The Ordeal of Thomas Hutchinson* (1975) and a Bancroft Prize for *Ideological Origins*.

Bailyn, who received his doctorate from Harvard University in 1953, served as president of the American Historical Association in 1981. He is a member of the American Academy of Arts and Sciences, the American Philosophical Society and the National Academy of Education, among others.

The Thomas D. Fulbright Lecture in American History, which will be given annually, was endowed by a gift from

Thomas D. Fulbright from Decatur, Ill., a 1976 Arts and Sciences graduate.

The lecture is co-sponsored by the University's Assembly Series, Department of History, Lock and Chain, the leadership honorary for sophomores, Student Union and the Thomas Fulbright Endowment Fund. For more information call 935-4620.

Campus Y spring classes available

The Campus YMCA-YWCA's spring classes offer a variety of topics to interest everyone. All members of the University community are encouraged to participate in the classes, which can be joined even if already in progress.

The following classes are being offered: Basic Auto Care; Flight Training Ground School; Chinese Cooking; Italian Cooking; Vegetarian Cooking; West African Dance Class; Dreams, Your Inner Teacher; Acupressure; Meditation; Tai Chi Ch'uan; Razzamajazz; Workout; Yoga; Beginning Conversational Korean; Sign Language; Akido; Self-defense for Women; Advanced Self-defense for Women; Self-defense Tactics for Men and Women.

Most classes meet once or twice a week in the evenings or during the lunch hour. Almost all of the classes meet on campus. They last from three weeks to nine weeks, depending on the topic.

The Campus Y also is offering a lecture/workshop, titled "Social Issues and Action," from 1 to 3 p.m. March 20. The location will be announced later.

Fees for courses already in progress will be prorated. For further schedule and fee information and to register, call the Campus Y at 935-5010.

Sports

Men's Basketball

Last Week: Washington 84, NYU 71; Washington 132, Emory 111

This Week: Brandeis University, 8 p.m. Friday, Feb. 19, Waltham, Mass.; University of Rochester, 3 p.m. Sunday, Feb. 21, Rochester, N.Y.

Current Record: 12-10, 7-4 in UAA

It was a record-setting Valentine's Day at the Field House as senior forward Charlie Borsheim, La Crosse, Wis., erased the Bears' 38-year-old single-game scoring record with a 47-point performance in their victory over Emory University. A 6-foot-5 senior forward, Borsheim sank 14 of 22 field goals and 19 of 21 free throws. Borsheim, who is now averaging 21 ppg, added a game-high 10 rebounds and a career- and game-high seven assists.

The previous school mark was held by Jim Barton, who scored 46 points on Feb. 9, 1955, versus the University of Missouri-Rolla. Barton was one of Washington's 12 inaugural inductees into its Athletic Hall of Fame last fall.

Two nights earlier, Borsheim keyed the Bears' 84-71 win over New York University. He pumped in 25 points and grabbed 10 rebounds as the Bears handed the league-leading Violets their second loss of the season. Washington freshman guard Gene Nolan, Chicago, Ill., added 21 points, including six consecutive free throws in the game's final minutes to preserve the upset. The Bears need to win the three final games of the season and hope that NYU loses its last two contests in order to share the University Athletic Association (UAA) title. This weekend, the Bears play their final road games of the season.

Women's Basketball

Last Week: Washington 58, NYU 52; Washington 85, Emory 64

This Week: Brandeis University, 6 p.m. Friday, Feb. 19, Waltham, Mass.; University of Rochester, 1 p.m. Sunday, Feb. 21, Rochester, N.Y.

Current Record: 19-3, 9-2 in UAA

The showdown for UAA supremacy was waged between Washington and NYU on Friday and the Bears came away victorious. On Sunday, the Red and Green took another huge step toward a fifth UAA title in six years by toppling Emory University and then learning of NYU's loss at the University of Chicago. The winner of the UAA will receive an automatic bid to next month's NCAA Division III tournament.

Junior guards Stacy Leeds, Muskogee, Okla., finished with a team-high 13 points, and Carletta Taylor, Paducah, Ky., pilfered a game-high five steals despite playing with a broken finger.

Junior point guard Sarah Goldman, Nashville, Tenn., led the winning effort against Emory, netting team-bests with 15 points and four steals. Freshman sensation Dana Bryant, Franklin, Tenn., added 13 points.

Men and Women's Swimming/Diving

Last Week: University Athletic Association Championships — Men: 5th place of 8 teams; Women: 5th place of 8 teams

This Week: Idle.

Current Record: Men: 8-2; Women: 8-1

More than 300 swimmers and divers swamped the Field House last week as Washington hosted the 1993 UAA Championships.

Highlighting the men's efforts were a pair of NCAA qualifying efforts. Junior Jason Coryell, Marion, Ind., dipped beneath the qualifying mark with a time of 52.05 seconds in the 100-yard butterfly, and the men's 200 medley relay team also earned a national ticket.

Earning all-UAA status by finishing in the top three of an individual event were junior Omar Ahmad, Manchester, Mo. (2nd place, 100 back); freshman Robert Powers, Shreveport, La. (3rd place, 200 back); junior Shell Ulmer, Olathe, Kan. (3rd place, 400 IM), and Coryell (3rd place, 100 butterfly).

Swiss-based troupe presents family show

Mummenschanz, the Swiss-based trio that transforms acting, mime, dance and puppetry into magic, will perform at 8 p.m. Feb. 26 and 27 and at 2 p.m. Feb. 27 in Edison Theatre.

The troupe will present a special family anniversary event titled "Parade." The two-hour show will feature a new work and include sketches from the group's 20th anniversary show, which toured in the 1989-1990 season.

In honor of Edison Theatre's 20th anniversary celebration, "Parade" will be performed by two of Mummenschanz's founders: Bernie Schurch and Floriana Frassetto, along with John Charles Murphy. The production also is in memory of Andres Bossard, the third founding member, who died last year.

Mummenschanz — the name means "masquerade" or "mummy" — came together in 1969 and over the next several years refined its language-free style. The troupe's signature is its ability to fill inanimate objects with a strong sense of humanity, expressing personality purely through shapes, colors and movements.

As The Washington Post wrote, "In the wake of 'Cats,' 'Les Miserables,' 'The Phantom of the Opera' and other million-dollar productions, stage illusion has come to be equated with technological spectacle ... but occasionally the exhausted theatergoer yearns for magic of a more basic, human-scale variety. 'Parade' ... fits that description to a T."

In one sketch, the curtain is drawn apart by stagehands — a pair of six-foot white-gloved hands. Those hands count the house, move objects about and twiddle the thumbs. In another sketch, the performers wear masks in the form of male and female electric plugs. When they find each other and connect, stage lights blaze; when they disconnect, the lights fade.

Tickets are \$20 for the general public; \$15 for senior citizens and Washington University faculty and staff; and \$10 for students.

Tickets are available at the Edison box office or at all Metrotix outlets (534-1111). For more information, call 935-6543.

Van Duyn, Thurston portraits installed in Special Collections

Mona Van Duyn, the first woman poet laureate of the United States, and her husband, Jarvis Thurston, Ph.D., professor emeritus of English and former chair of the department, will give a reading of their works at 7:30 p.m. Feb. 26 in the Harris Reading Room (fourth floor) of Olin Library.

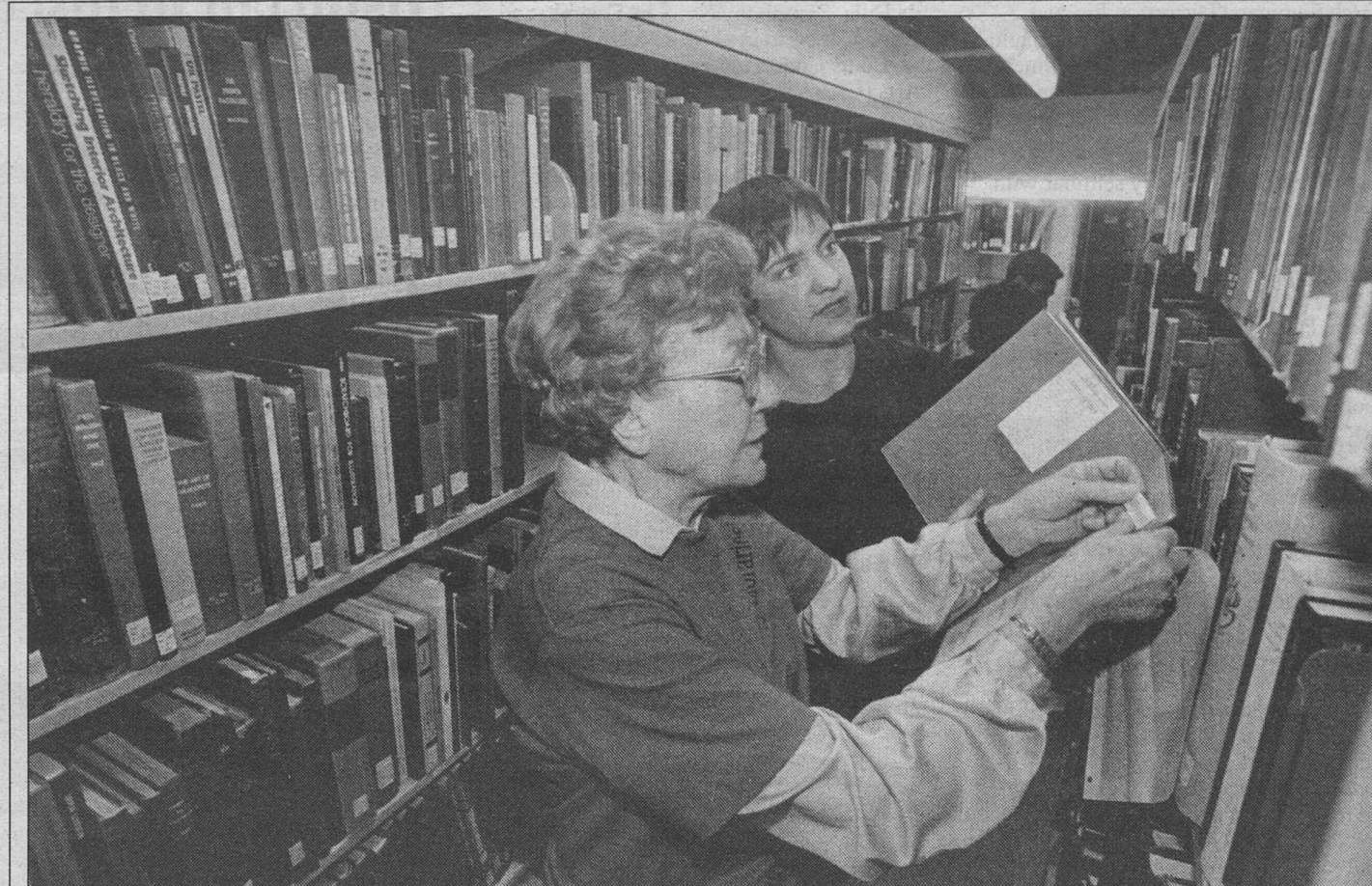
The readings will mark the installation of the couple's portraits in the library. The portraits are scheduled to be installed Feb. 19 inside the reading room in the Department of Special Collections on the fifth floor.

Following the reading, individuals may preview a library exhibit of the couple's works, titled "Perspectives: Jarvis Thurston and Mona Van Duyn." Both the reading and exhibit are free and open to the public. The exhibit will be on display from May 1 through May 7 in Special Collections.

"This exhibition offers an affectionate, appreciative sketch of two lives joined in private and public service to the literary community," said Kevin Ray, curator of manuscripts.

Van Duyn, who has a longstanding relationship with Washington University, won the Pulitzer Prize for poetry in 1991 for her seventh book of poems, *Near Changes*. She previously won the National Book Award in 1971 for *To See To Take*, and also received the 1989 Ruth Lilly Award from Poetry magazine and the American Council on the Arts.

Before his retirement in 1982, Thurston had been a professor of English at Washington University for more than 30 years. In 1947 Thurston and Van Duyn, a former lecturer in English at University College and visiting professor, founded a publication titled *Perspective: A Quarterly of Literature*. Thurston and Van Duyn are credited with attracting many of Washington's premier faculty, including



Ruth Sherwin (foreground), a volunteer and former staff employee, and Anne Posega, Special Collections assistant, place a bar code in a book in the Art and Architecture Library. Sherwin and Posega were among 95 staff and student volunteers applying more than 55,000 bar codes in the music and art and architecture libraries during the semester break in January. Last summer, the Biology, Chemistry, Earth and Planetary Sciences, Mathematics, and Physics libraries were bar coded, also by a corps of volunteers. Automated circulation is faster than manual circulation and has the advantage of showing, in the online catalog, whether a book is checked out or is "on shelf."

Study confirms sexes have different attitudes toward romance — from page 1

"In this case, it's a positive thing," says Davis. "It refutes some cultural myths and stereotypes about what black men think of black women."

To assess commitment, Davis and Strube employed Rusbult's Investment Model, a tool that has been used successfully in other studies to gauge commitment in relationships ranging from homosexual to boss-employee. The method judges an individual's commitment level by looking at how satisfied the person is in the relationship, how invested the person is and

whether there are available alternatives.

"Both men and women were less committed to their current relationships if they viewed their alternatives as attractive. This finding is important particularly with respect to the lack of racial differences. Clearly, participants in our study weighed their options; they recognized the implications of a better deal outside the current relationship. That black men did not act on their more favorable options is important," says Strube.

The researchers cite two possible reasons why the high number of available women did not alter the level of commitment in black men. First, the subjects were younger than in most studies — a point that raises some interesting questions, Davis says. "It's possible a diminishing sense of commitment will manifest itself later," he adds, "but it's worth exploring why that would happen in an older adult, when he or she presumably has more invested in the relationship. Why doesn't that happen with the younger population as well?"

Davis points out that "real-world concerns" of older adults, such as a career, mortgage and children, may muddy the waters. As the intensity and number of a person's commitments increase, commitment within the romantic relationship may diminish, he says.

Another possible reason is because those studied — most of them college students — are demographically elite. "Perhaps this indicates that commitment is more a function of socioeconomic indicators than of anything else — that circumstances in lower socioeconomic levels make commitment more difficult," says Strube.

Examining dating couples is an important forerunner to understanding families, says Davis, who has written a book on romance and black singles to be published in fall 1993. "Dating relationships are where families come from. If we detect trends and patterns in dating couples, we might better understand family dynamics. It's like looking at adolescence to understand problems that manifest themselves in adulthood."

Davis points out that dating relationships have their own research value apart from being a springboard for families. With more people delaying and even forgoing marriage, dating relationships play an increasingly important role in our society.

"The dating phase of life is becoming much longer for more and more people," says Davis. "And some people pass through the phase several times in a lifetime."

Davis says that while commitment in white couples is a well-researched area, commitment in black couples is rarely studied. Research on black couples tends to focus on conflict, he says.

"The press often focuses on the dysfunction of black families. It's newsworthy and so it gets covered," he adds.

While the study shows that blacks and whites don't view commitment differently, it confirms the truism that men and women do have different attitudes toward romance and commitment. For example, Davis and Strube found that in general women reported *liking* their partners more than men did. Davis says this is not surprising. Women, he says, tend to answer positively to questions that measure liking among partners. Typical questions include: Would you want to be more like your partner? and Would you want to spend time with your partner, even if you weren't involved in an intimate relationship? Davis says one reason women like men more than the reverse is because society as a whole values masculine attributes more.

"We tend to place a premium on traditionally male qualities, like being aggressive and outgoing, while we don't place a high value on traditionally feminine qualities," Davis says. "That's why women record high liking scores for their mates."

On the same note, men reported higher loving scores for their partners than women did, responding positively to such statements as: If I could never be with my partner again, I would be miserable.

Davis speculates that the different attitudes toward love between men and women could be explained by need. "It's possible men need their partners more than women do. That might answer the higher loving scores men typically give," he says.

The study detected other differences in attitude toward commitment between men and women, regardless of race.

- Appearance was more important for men than women. In fact, the study found that the more attractive men believed their partners to be, the more committed they were to the relationship.

- For women, a high level of satisfaction in the relationship meant a high level of commitment. No direct correlation between satisfaction and commitment was found for men.

- AIDS also had an impact on commitment. The more concerned men were about contracting AIDS within the relationship, the less committed they were to the relationship. On the same note, a breakdown by both race and gender showed that black men were most concerned about AIDS.

"We found that, in general, there are different factors contributing to commitment for men than there are for women and that race, in this demographic group, doesn't play a role. Satisfaction is a better predictor of commitment for women, while appearance is a better predictor of commitment for men," says Davis.

— Nancy Mays

Hirst — from page 1

of a semester seminar at Folger Institute for the History of British Political Thought in Washington, 1991.

He also has served on the editorial board of the *Journal of Modern History* and as editor of the early-modern Britain section of the American Historical Association's Guide to Historical Literature.

Hirst received his bachelor's degree with First Class Honours from Cambridge University in 1969. He received his doctorate from Cambridge in 1974.

Other faculty members to hold the William Eliot Smith Professorship have been: Rowland Berthoff, 1974-1992; John Pocock, 1965-1974; Dietrich Gerhard, 1962-65; Ralph Bieber, 1950-1962; Roland Usher, 1948-1950; and Donald McFayden, 1922-1944.

Smith, who held a lifelong interest in history, graduated from Washington University as valedictorian of his 1864 class with a bachelor of arts degree. He received his master's degree in history from the University in 1867.

News Analysis

News Analysis contains excerpts from the For Expert Comment service. The service, which provides timely faculty comments to media across the country, is distributed by the Office of University Communications.

Swimsuit issue damages women's self-image

Marcia C. Smith, Ph.D., assistant professor of psychology, has researched women's health issues, including bulimia and other eating disorders, for 10 years. She recently conducted a study on how women's self-esteem levels were affected after viewing models in Sports Illustrated's annual swimsuit edition.

Although the media's image of beautiful women — such as those in the recent Sports Illustrated swimsuit issue — abound in our culture, they have an insidiously negative effect on how women feel about themselves, says Smith. "Unrealistic images of beauty, like those perpetuated by Sports Illustrated, are harmful to the self-esteem of all women and contribute to the increasing number of eating-disorder cases in this country," says Smith.

In a recent study led by Smith, two groups of women — one with bulimia and one without — watched videotapes of Sports Illustrated models in swimsuits. Afterward, both groups reported a more negative self-image than they did before watching the tape, describing themselves as "feeling fat and flabby" and "feeling a greater need to diet." The images may be particularly damaging to the self-esteem of women with eating disorders, such as bulimia — an ironic point, says Smith, given the recent media coverage of the high number of big-name fashion models who suffer from bulimia and other eating disorders.

"Women turn to eating disorders when they feel they should look like models in order to be attractive, yet these women do not have the same build or weight range as professional models. Consequently, women resort to bulimic or anorexic behavior," says Smith.

"While some magazines are beginning to write better, more realistic articles, accompanied by more natural pictures of women, an advertisement on the same page will use a false image of beauty," says Smith. "Women are getting mixed signals. In fact, now the message seems to be that women should strive to accomplish more but still be as beautiful as fashion models."

For The Record

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

Of Note

Ruthmary K. Deuel, M.D., professor of neurology and neurological surgery and of pediatrics, received a \$25,000 grant from the Alzheimer's Disease and Related Disorders Association Inc. for a research project titled "Motor Planning Deficits in SDAT." ...

Six undergraduate students in the School of Engineering and Applied Science captured awards in the annual technical writing competition sponsored by the St. Louis chapter of the Society for Technical Communication. **Kenneth J. Edelman**, a chemical engineering major, won a first-place Award of Distinction for his report on "A Three-Part Preservation Plan for the Books in Washington University's East Asian Library." **Michael A. Slowinske**, an engineering and policy major, also won an Award of Distinction for his proposal titled "Solving the Asbestos Abatement Problem in the Jackson County School District." **Robert G. Akl**, a computer science and electrical engineering major, received an Award of Merit for his "Proposal to Install an Intelligent Tutoring System at Riverdale Elementary School." In addition, **Thieu X. Dang**, **Daniel T. Lader**, and **Janet L. Zydney** each received an Award of Achievement. Dang, a computer science and electrical engineering major, was honored for his proposal titled "TwoSite User's Guide: A Computer Model of a 3-Barrier, 2-Site Single File Ion Channel"; Lader, an engineering and policy major, received the award for his report on "How to Comply With the Clean Air Act Amendments of 1990: A Proposal for Willoughby Scrap and Iron." and Zydney, a chemical engineering major, received the award for her work on "Selection of Alternatives to Replace Freon in Air Conditioning Systems." ...

Jeffrey I. Gordon, M.D., professor of medicine, Alumni Professor and head of molecular biology and pharmacology, received a \$238,393 grant from the National Institute of Diabetes and Digestive and Kidney Diseases for a research project on "Regulation of Gene Expression in the Small Intestine." ...

Kathleen B. Hall, Ph.D., assistant professor of biochemistry and molecular biophysics, received a \$69,886 grant from the National Institute of General Medical Sciences for a research project titled "Structure/Function of RNA Loops and Duplexes."

Patricia M. Paynter, instructor in occupational therapy, won first prize for her poster titled "Comprehensive DIP Joint Care," during the American Society for Hand Therapy's annual conference held in Phoenix, Ariz.

Speaking of

During a live interaction video teleconference with Japan, **Charles R. McManis, J.D.**, professor of law, spoke on "Intellectual Property Rights and U.S.-Japan Trade." The teleconference, held at the University of Missouri-St. Louis, was jointly sponsored by the Japan External Trade Organization and the Center for International Studies at UM-St. Louis. ...

Robert P. Morgan, Ph.D., Elvera and William Stuckenberg Professor of Technology and Human Affairs, presented a seminar as part of a series sponsored by the National Research Council's Office of Scientific and Engineering Personnel. During the seminar, which was held in Washington D.C., Morgan gave a progress report on his work on "Engineering Research in U.S. Higher Education." ...

During the Society for Medical Decision Making's 14th annual meeting held in Portland, Ore., **Grace Schwane Poertner, Ph.D.**, health services researcher, made a podium presentation. Her talk was titled "U.S. Newborns Experience Variation in Prenatal Care Adequacy but Find Intensive Technology More Uniformly Available." ...

Karen L. Tokarz, LL.M., professor of law and director of clinical education,

spoke on "The Interaction of the Age Discrimination Act and the Americans With Disabilities Act" during the Joint Conference on Law and Aging held in Washington, D.C. ...

On assignment

Claudia A. Hilton, coordinator of admissions and communications and instructor in occupational therapy, is serving on the publicity committee for the President's Council for the Employment of Persons With Disabilities Conference to be held May 12-14.

To press

Harry L.S. Knopf, M.D., associate professor of clinical ophthalmology, published a paper titled "Position of Intraocular Lenses" in the Ophthalmic Practice journal.

Guidelines for submitting copy:

Send your full name, complete title, department, phone number, and highest-earned degree, along with a typed description of your noteworthy activity to For The Record, c/o Carolyn Sanford, Campus Box 1070. Items must not exceed 75 words. For information, call Carolyn Sanford at 935-5293.



Washington University recently hosted the University Athletic Association's Swimming and Diving Championships at Millstone Pool. During the highly competitive championships, 24 pool records were broken out of 40 events. Julie B. Wolf, a freshman from Cincinnati, Ohio, made the championship finals in three events. Overall, both of Washington's men and women's swimming and diving teams finished fifth out of eight teams.

Changing workplace focus of executive seminar

Helping corporations and their employees cope with a constantly changing workplace will be the topic of an executive seminar to be held from 7:30 a.m. to noon on Tuesday, Feb. 23, at the Radisson Hotel-St. Louis Airport, which is located on Lindbergh Boulevard near Interstate 70.

The seminar is sponsored by the Executive Programs Group of the Olin School of Business and the St. Louis chapter of the Institute of Management Accountants.

Seminar sponsors say that many companies are striving to make continuous improvements in business practices and technologies to remain competitive. But the toll these changes have on employees often is misunderstood, they say.

The three seminar speakers will focus on the role people play in the process of change and related communications issues. The speakers are: Sean Kenny, a senior manager in the management consulting division of the Ernst & Young accounting firm; Cyndy Rosenbloom, a human resources manager for Monsanto Agriculture Group; and Cheryl Roberts, a consultant with the Transition Management Group and the author of numerous articles on career issues.

The registration fee is \$50. For additional information, contact the Executive Programs Group at 935-4572.

Students excel during mock trial competition

Student teams from the School of Law won first and second place at the Regional Mock Trial Competition held earlier this month at the St. Louis County Courthouse. The teams will advance to the National Trial Competition to be held March 11-13 in San Antonio, Texas.

The students competed against 22 teams from 11 Midwest law schools.

First-place team members are: Thom Avery, a second-year law student, and Teresa Cotton and Sherry Gutnick, both third-year students. Second-place team members are: Henry Powell, Luisa Trujillo and Angela Williams, all third-year students. St. Louis Circuit Judge David C. Mason, J.D., adjunct professor of law, is the faculty adviser.

Washington University has advanced to the National Trial Competition 12 of the last 13 years, capturing the national championships in 1983 and 1986. To date, no other school has placed first in the national competition more than two times.

News In Brief

Publishers' association honors Weidenbaum

The Association of American Publishers has awarded its 1992 Outstanding Book in Economics prize to Murray L. Weidenbaum, Ph.D., Edward Mallinckrodt Distinguished University Professor and director of the Center for the Study of American Business.

Weidenbaum's book *Small Wars, Big Defense: Paying for the Military After the Cold War*, explores how the American economy can best adjust to large defense cutbacks and move toward a more civilian-oriented economy. The association presented the award to the book's publisher, Oxford University Press, during the group's 17th annual Professional and Scholarly Book

Awards ceremony recently held in Washington, D.C.

Subjects needed for study

The Department of Psychology is seeking participants for a study on children with spastic diplegic cerebral palsy. The study will be limited to those who have received physical or occupational therapy, but not spinal surgical treatment.

Children age 5 to 16 are needed. Each participant will be paid \$20 for a 90-minute study and also may receive the results of clinical tests performed as part of the study. Subjects are encouraged to register as soon as possible, because the study will close March 15.

For more information, call the psychology department at 935-4357.

Opportunities & personnel news

Hilltop Campus

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, Room 126 North Brookings Hall, or by calling 935-5990.

Word Processing Operator

930019. *Social Work*. Requirements: High school graduate, some college preferred; typing 50 wpm with accuracy; ability to work with students, faculty, administrators and staff; pleasant telephone manner; above average knowledge of English, grammar and spelling; ability to proofread own work. Clerical tests and three letters of recommendation required.

Contract and Grant Coordinator

930053. *School of Social Work*. Requirements: Bachelor's degree with accounting background; strong communication and interpersonal skills; experience in funded research and administration and working with federal governmental agencies and foundations, PC word processing and spreadsheet skills; ability to organize and work on deadline; typing 40 wpm with accuracy. Clerical testing and three letters of recommendation required.

Administrative Assistant

930125. *Chemical Engineering*. Requirements: High school graduate, some college preferred; typing 50 wpm with accuracy; as much as five years office experience would be beneficial, especially if the individual interacted with others. Some supervisory experience is required. Clerical tests and three letters of recommendation required.

Department Secretary

930135. *Alumni and Development Programs*. 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. Candidate must be alert, detail-oriented and well-spoken; able to deal with multiple priorities; mature, well-groomed, pleasant personality; able to work well with and relate easily to people. Clerical tests and three letters of recommendation required.

Cashier

930138. *Accounting Services*. Requirements: One year cash-handling experience or one year bookkeeping experience or three semester hours of accounting; must be courteous, tactful and have the ability to organize and control a heavy volume of work; ability to qualify for satisfactory bond; high clerical and mathematical aptitude preferred; excellent communication skills; ability to deal effectively with people; proficiency in the operation of office equipment with CRT experience preferred. Clerical tests and three letters of recommendation required.

Researcher

930141. *Development Services*. Requirements: Bachelor's degree, liberal arts background preferred; strong research and writing skills; typing 35 wpm with accuracy. Application, resume and three letters of recommendation required.

Project Manager

930143. *Facilities Planning and Management*. Requirements: College degree in engineering/construction/architecture; minimum five years project management experience in both design and construction; ability to read and interpret plans and specifications; capable of working with and motivating design professionals and contractors; ability to organize time and priorities to be most productive; self-motivated, responsible and mature individual; good communication skills a necessity; must possess a good working knowledge of the design and construction industry to assess quality of the work being performed; ability to make judgments on acceptability, proper means and methods of design and construction.

Resume and three letters of recommendation required.

Stockroom Manager

930144. *Biology*. Requirements: Ability to use FIS programs; previous stockroom/receiving experience highly desirable; willingness to handle hazardous chemicals and radioactive materials; ability to do heavy lifting and move heavy objects; able to exercise judgment and work with minimal supervision; typing with accuracy. Clerical tests and three letters of recommendation required.

Lab Aide

930146. *Biology*. Requirements: High school graduate; safe handling of biohazardous waste. Duties: glassware pickup and processing; housekeeping; media preparation; run errands for department. Application and three letters of recommendation required.

Financial Analyst

930148. *Arts and Sciences*. Requirement: Bachelor's degree. Assist in preparation, analysis and review of yearly operating budget; assist with year-end closing and preparing appropriate year-end analysis; do special research projects within the accounting and budgetary area; compile the appropriate data, prepare reports and analyses; prepare monthly/quarterly/semester reports on contingency budgets, tuition allocation, other expenses and salary; assist departmental staff with budgetary and accounting questions; process departmental budget adjustments and review check requests; demonstrate working knowledge of Arts and Sciences procedures and policies; provide assistance to the director in the proper implementation of school procedures. Resume and three letters of recommendation required.

Architectural Drafter II

930149. *Facilities Planning and Management*. Requirements: Academic or technical degree in architectural drafting; approximately five years CAD experience; must be knowledgeable with and able to use AUTOCAD with a DXF file through version 12; approximately five years drafting experience; cooperative team player who can stay focused in busy environment; assume responsibility, show initiative and good mechanical aptitude; must be able to work independently or under general direction on construction-related projects. Resume and three letters of recommendation required.

Undergraduate Secretary

930150. *Economics*. Requirements: High school graduate, minimum of one year of college preferred; typing 45 wpm with accuracy. Duties: Send letters to newly declared majors and maintain undergraduate economics majors files on Lotus 123 or Quattro Pro; transcribe from dictaphone and keep appointment calendar for distinguished university professor; responsible for typing and photocopying of classwork; initiate book orders for faculty and write for desk copies; maintain distinguished university professor's account; other general office work such as correspondence and clerical backup for the department; answer telephones; reception duties; help with special mailings; and other duties as assigned by the supervisor. Clerical tests and three letters of recommendation required.

Director, Sponsored Projects Services

Research Office. Requirements: Bachelor's degree. Supervise and provide services in the area of federal and non-profit research funding to the University. Experience needed in principles of management of public funds by universities, government contracting practices, government regulations affecting research universities. Supervision of personnel to grade 10 required; interact and problem solve with faculty, administrators, agency personnel; monitor and analyze public policy; develop management systems to promote smooth function

between different university departments; supervisory and position-specific experience required. Deadline March 15. Send resume and contact information for three references to: Associate Vice Chancellor for Research, Washington University, Campus Box 8013, 724 S. Euclid Ave., St. Louis, Mo. 63110.

Director

Research Office. Requirements: Master's degree, doctorate preferred. Direct a new program to generate corporate support for medical research; develop a networking capability through personal interaction with medical school faculty and corporate R&D managers. Interact with Research Office staff involved with technology transfer (patents and licensing). Graduate-level training in science or business required; up-to-date technical knowledge of several of the following areas required: biotechnology, pharmacology, medical devices and medical imaging; ability to extrapolate from scientific interest to commercial application required; strong synthetic and analytical skill and presentation abilities needed. Deadline March 15. Applicants should send a CV and cover letter containing names, titles, addresses and phone numbers of three references to: Susan E. Cullen, Ph.D., Associate Vice Chancellor for Research, Washington University, Campus Box 8013, 724 S. Euclid Ave., St. Louis, Mo. 63110.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees who are interested in submitting a transfer request should contact the Human Resources Department of the medical school at 362-4920 to request an application. External candidates may call 362-7195 for information regarding application procedures or may submit a resume to the Human Resources office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, Mo. 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to departments other than Human Resources.

Programmer Analyst II

930479-R. *Genetics*. Requirements: Bachelor's degree; two years computer programming experience in C highly preferred; data base experience very desirable; coursework in the biological sciences helpful; experience in MS DOS and UNIX.

Reference Librarian/Library Associate

930531-R. *Medical Library*. Schedule: 3:30 p.m. to midnight Monday through Thursday; one weekend day. Requirements: Bachelor's degree, MLS preferred. Responsible for library evening and weekend hours. Must have good written and oral communications and problem-solving skills; experience with PC or Macintosh and demonstrated ability to supervise adults essential; knowledge of online data base searching desirable; strong service commitment. Please apply by resume. This is a full-time professional position.

RN Staff Nurse

930536-R. *Internal Medicine*. Schedule: Part-time, 20 hours a week; Monday, Wednesday, Thursday and Friday. Hours vary: 9 a.m.-3 p.m. or 9 a.m.-4 p.m. Requirements: Graduate of an accredited nursing school with current Missouri license. Ideal candidate will have two years experience, preferably in outpatient office with high-risk patients.

Grant Assistant II

930541-R. *Administration*. Requirements: High school graduate/equivalent, bachelor's degree preferred; three years business experience, including general accounting responsibilities desired; ability to interpret and communicate policy and procedures a must; should have good personal and organizational skills and be able to work under pressure. Typing speed 30 wpm and CRT experience.

Head Technologist

930546-R. *Pediatrics*. Requirements: Bachelor's degree in molecular biology or related field with two to three years experience in a research lab; ability to work independently a must. Will handle regulation of complement synthesis in inflammation project for P.I.

Library Assistant IV

930548-R. *Medical Library*. Requirements: High school graduate/equivalent, some college preferred; minimum one year library experience. Public contact experience and good communications skills are highly desirable; typing 35 wpm.

Medical Transcriptionist

930553-R. *Psychiatry*. Requirements: High school graduate/equivalent, some business or technical school preferred; typing 70 wpm; thorough knowledge of medical terminology. Must have word processing experience, preferably WordPerfect.

Medical Research Technologist

930554-R. *Genetics*. Requirements: Bachelor's degree with experience in DNA sequencing. Prefer individual with experience in recombinant DNA techniques; micro computer experience a must; capable of using initiative and independent judgment. Some handling of radioactive materials.

Clinical Lab Tech I

930557-R. *Cardiology*. Requirements: High school graduate/equivalent, bachelor's degree preferred; desire experience in general laboratory techniques. Will perform assays of creative kinase isoenzymes and coagulation proteins in plasma samples from patients enrolled in several multicenter drug trials.

Insurance, Billing, Collection Asst. I

930562-R. *Pathology*. Requirements: High school graduate/equivalent; typing 30 wpm; two years CRT, billing and insurance experience preferred; basic knowledge of computerized billing desirable.

Medical Research Technician

930567-R. *Gastroenterology*. Schedule: Part-time, 24 hours a week, including some evening or early morning hours and some Saturdays. Requirements: Bachelor's degree; experience with sterile techniques, cell culture work and molecular biological assays desirable. Training in clinical lab procedures helpful.

Photo Darkroom Technician

930572-R. *Illustration*. Requirements: High school graduate/equivalent; associate's degree preferred; must have heavy experience in a medical darkroom producing high quality black and white prints of scans, radiographs, gels and photomicrographs.

Temporary Staff-Clerical

TESS-R. The School of Medicine is establishing an in-house Temporary Employee Staffing Service to assist departments with temporary employees who will become knowledgeable about the medical school environment. Participants in the Temporary Employee Staffing Service will be eligible to be considered for regular employment with the medical school, if they wish, after three months service in the pool. The human resources office is now screening qualified applicants with skills in the following areas: word processing, secretarial, medical secretary/transcriptionist, receptionist and medical billing, insurance and collections. Applicants should have the skills noted above. Those who enjoy the flexibility that temporary work offers or would like to gain valuable experience to build their credentials for future employment should apply. Please send a resume, addressed "ATTENTION TESS" to the Medical School Human Resources Department at the address noted above in the introduction to the medical school job listings.