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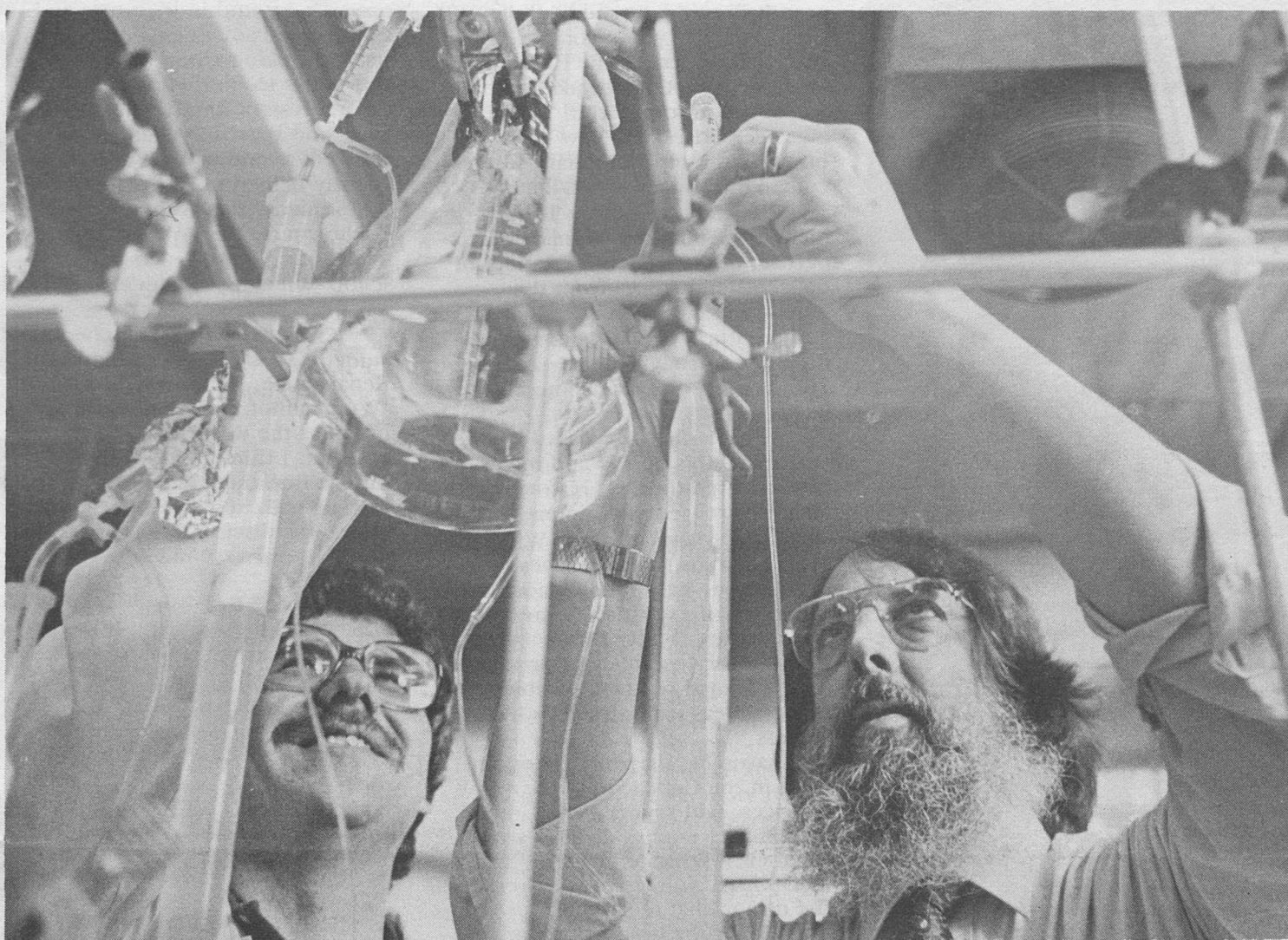
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Washington University RECORD



WASHINGTON
UNIVERSITY
IN ST. LOUIS

Vol. 9 No. 48/Dec. 6, 1984



Roy Curtiss III (right), chairman of the Department of Biology, and Bill Jacobs, senior graduate student, purify gene products in a WU laboratory. Using gene cloning and other biochemical techniques, Curtiss has found a way to turn the body's immune system against dental cavities with a vaccine.

Cavity free

Curtiss isolates protein that allows tooth decay; vaccine against cavities possible in three years

A vaccine against dental cavities could be available in as little as three years, according to a WU researcher. Roy Curtiss III, chairman of the Department of Biology and professor of cellular biology in the School of Dental Medicine, says he's found a way to keep the bacteria responsible for tooth decay from sticking to teeth.

Curtiss and his research team are concentrating on *Streptococcus mutans* (*S. mutans*) — the sophisticated bacterium which operates in the mouth by accumulating around and between teeth to form plaque. The bacteria in the plaque convert sugar in food and beverages into acid capable of dissolving the minerals in tooth enamel. Stripped of their protective enamel, teeth decay and cavities form.

Curtiss successfully has interrupted this process by manipulating proteins on the surface of the *S. mutans* which allow the damaging bacterium to attach to teeth.

The most prevalent of these surface proteins, SpaA, is responsible for the *S. mutans*' initial adherence to teeth. Other proteins convert this loose hold to a tenacious grip which renders tooth brushes and fluoride incapable of dislodging the bacterium from its nest.

Without these surface proteins, the *S. mutans* do not attach to teeth, form plaque and produce damaging acid. "This discovery gives us cause for considerable optimism that these proteins can be used as part of a vaccine against dental cavities," says Curtiss.

Gene cloning and other biochemical techniques have enabled Curtiss to produce large amounts of very pure SpaA protein. This gene product provokes an immune response which blocks the adherence function of the SpaA protein in the mouth. With no sticky SpaA protein, the *S. mutans* drift aimlessly away, without damaging teeth.

But a few questions still are unanswered. Are there any dangerous side-effects? "If you take whole *S. mutans* and inject them into a rabbit, the animal will see some damage to the heart and kidney tissue," says Curtiss. Indeed, it is clear that some surface component of this bacterium elicits an immune response which could hurt the heart and kidneys. "The question is," says Curtiss, "are the proteins we're working with responsible for that?"

Though all indications are that SpaA protein is not responsible for such damage, Curtiss is proceeding

cautiously. "When you're talking about giving this to kids, you want to be 100 percent sure. There is absolutely no tolerance for detrimental side-effects."

Animal trials at the University of Alabama-Birmingham, have shown the vaccine to be very effective and human trials are expected to begin shortly.

Curtiss, who also is the George William and Irene Cochig Freiberg Professor of Biology, predicts that the vaccine will be produced in the form of a capsule and taken orally. Because *S. mutans* invade the mouth as soon as the first teeth come in, the earlier the immunization the better.

"We know that the vaccine should stop the bacterium from adhering to the teeth in the first place," says Curtiss, "but we're not sure of the effect of the vaccine on teeth where *S. mutans* already have attached, as in adults. Will the vaccine arrest the plaque built-up? Will we reverse it? We just don't know."

Curtiss suggests that the vaccine may be effective on adults if given in conjunction with a dentist's thorough teeth cleaning.

Paul Dusseault

Avon, Mallinckrodt pledge \$750,000 to WU Alliance

The ALLIANCE FOR WASHINGTON UNIVERSITY, a \$300 million fund-raising campaign, has received a \$750,000 pledge from Avon Products Foundation and the Mallinckrodt Fund, Chancellor William H. Danforth has announced.

Hicks B. Waldron, chairman and chief executive officer, Avon Products Inc., and Raymond F. Bentele, president and chief executive officer, Mallinckrodt Inc., an Avon subsidiary, said \$230,000 will cover annual contributions for unrestricted purposes during the campaign; \$520,000 will be used for capital purposes.

Of the allocation for capital purposes, \$370,000 is earmarked for the Clinical Sciences Research Building at the WU Medical Center, and \$150,000 for planned laboratory renovations and equipment for the Faculty of Arts and Sciences.

The recently dedicated 382,080-square-foot Clinical Sciences Research Building accommodates research facilities and offices of six clinical departments: anesthesiology, medicine, psychiatry, pathology, radiology and surgery. The building connects three hospitals at the WU Medical Center: Barnes Hospital, Jewish Hospital of St. Louis and the new St. Louis Children's Hospital.

The funds sought through the ALLIANCE include \$200 million for endowment and facilities and \$100 million for annual operations and special program support. George H. Capps, WU trustee, is chairman of the campaign.

Danforth said the institution is deeply grateful for the joint support from Avon and Mallinckrodt, whose leaders share a strong mutual commitment to St. Louis and to quality academic programs. "With the continuing support of Mallinckrodt, and now Avon, Washington University will strive to fulfill its mission as a center of intellectual excellence serving the Midwest and the nation," he said.

Dance Division presents concert

The Dance Division in the Performing Arts Area will present a concert at 8 p.m. Thursday through Sunday, Dec. 6-9, in the Dance Studio, Room 207 Mallinckrodt Center.

Titled "Alternating Currents," the concert will be presented to music ranging from "All That Jazz" to original scores written especially for the production.

Producer of the program is Shoshana Hellenstein, a sophomore dance major. Gale Ormiston, artist-in-residence in dance, is lighting designer and technical advisor.

The concert is co-sponsored by the Student Union and Thyrsus, a student-run Performing Arts Area organization.

Admission is \$2 at the door. For more information, call 889-5858.



James McGarrell's "Crossing Move," oil on canvas, 1981-82.

Metropolitan Museum in New York buys McGarrell's 'Crossing Move'

James McGarrell, professor of art, has sold a painting to the Metropolitan Museum in New York City for its permanent collection. The 78x59-inch oil on canvas is titled "Crossing Move." He painted it in 1981-82, after he had moved to St. Louis from Bloomington, Ind.

The painting was included this summer in an exhibit titled "Dialogues in Art" at the Ducal Palace of Gubio, Italy. It will travel to Mexico in November 1985 for an exhibit titled "New Narrative Painting From the Metropolitan Museum of Art" at the Museo Tamayo in Mexico City.

For the "Dialogues" show, William S. Lieberman, director of 20th-century collections at the Metropolitan Museum, wrote: "James McGarrell ignores the restrictions of conventional categories for the subjects of paintings — figure, still-life and landscape — and combines all three."

"'Crossing Move' should be seen with its companion picture, 'Drifting Move,' now in a private collection in New York. Both were begun in 1981 and completed a year later."

McGarrell recently wrote to a friend that the two paintings "were made after I had gone through a period of moving in and out of Bloomington (Indiana), New York City (where I lived for four months in early 1981), Italy (Umbertide) and St. Louis."

"I was thinking not only about literal moves — at one time I thought of one as moving in and the other as moving out — packing, unpacking, etc., but in a larger sense of changing

places, changing life: manner, growth, transition, throwing off old encumbrances but assuming new ones."

RECORD

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Faculty share expertise in class

The Renaissance was a reawakening of the arts and sciences, a development of bold, untried ideas that spread through all segments of society. With a multi-faceted approach in mind, Gerhild Scholz-Williams, associate professor of German and chairwoman of the University's Medieval and Renaissance Committee, set about organizing "The Renaissance: Crises and New Beginnings," an interdisciplinary studies course introduced this fall at WU.

The class, taught by 14 faculty members from various fields of expertise, offers students a variety of concepts and colors from the Renaissance. Beginning in Italy in the 14th century, class sessions wind their way through the past, ending in 16th-century England some 200 years later.

"This is the first class I know of that treats this period and integrates history, literature, art history, music, fashion, archaeology, drama and language," explained Scholz-Williams.

"Each instructor teaches two one-and-one-half hour sessions in their area of expertise. Many of the participating faculty members are going to the lectures that proceed theirs. That way, they are able to address ideas from previous lectures in class."

Aaron M. Shatzman, assistant dean in the College of Arts and Sciences, said several other interdisciplinary studies courses are offered each semester at WU. "Interdisciplinary studies courses reinforce the notion that a narrow approach is not always the best way to solve a problem," he said. "They testify to the value of broad learning and show students that the insights of scholars from widely different backgrounds and disciplines are relevant to finding the answers to their questions."

The idea to begin organizing the interdisciplinary studies course occurred to Scholz-Williams while she was on sabbatical in Europe from 1982 to 1983. She found much new

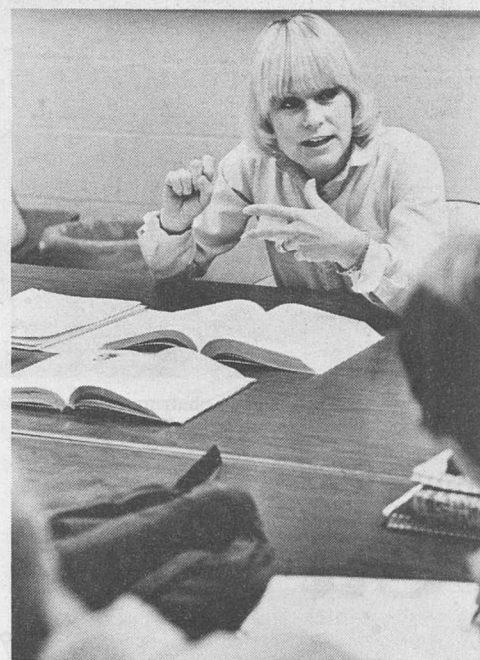
and varied research was being conducted there and in the United States on German literature of the later middle ages.

"I was excited by the amazing research I found in literature and social history. So, when I came back, I started looking around among my colleagues to find who was sharing my interests. I found quite a few. Everyone approached about the course was enthusiastic and subsequently helped in its organization."

Students also were enthusiastic — the course has an enrollment of more than 50. And, according to Scholz-Williams, all student feedback has been positive.

"This is a wonderful course for students who are interested in the Renaissance," Scholz-Williams said. "You cannot look at something as broad as the Renaissance, as a narrow concept. I think in all of the humanities, there is a growing interest to talk to each other from across the disciplines. There is so much to learn, so much to be shared."

Michelle Meehan



Gerhild Scholz-Williams



Dressed-up clothesline: Kim Strommen, artist and associate dean of the School of Fine Arts, took art to the people last week when he installed a work of art which resembled a colorful clothesline. It hung Wednesday through Friday on the north side of Graham Chapel and was about 100 feet long and 12 feet high. Strommen said it was his first outdoor installation, and he learned a lot from the experience. He chose the location because it is visible from many points on campus, and he liked the juxtaposition of the temporary, somewhat fragile, work against the long-standing Graham Chapel. His installation was connected with the Faculty Show, which is on display through Dec. 30 in the Gallery of Art in Steinberg Hall.



Calvin L. Streeter (left), a graduate student in the School of Social work, helps social work professors David F. Gillespie and Michael W. Sherraden pinpoint emergency preparedness groups across the St. Louis metropolitan area.

When disaster hits

Professors study area's preparedness

Every year emergency workers prepare to meet the damage and deaths brought by floods and tornados in Missouri and Illinois. But some emergency planning officials are concerned that the workers, as well as the public, are unprepared for a catastrophe which may strike within the next 15 years and would far exceed any natural disaster in this century — a devastating earthquake.

Southern Missouri and Illinois lie squarely across a geological rift, the New Madrid Fault. Earthquakes have rocked the area, but have not been as severe as the series of quakes between 1811 and 1812 that leveled New Madrid, Mo., and shifted the course of the Mississippi River. Scientists predict, however, that the minor tremors are likely to culminate in a recurrence of major earthquake activity along the fault before the year 2000, with St. Louis among the cities suffering serious damage.

Two professors in WU's George Warren Brown School of Social Work recently began studying the extent to which organized volunteers in the St. Louis metropolitan area are prepared to handle such a disaster.

Recognizing that the New Madrid Fault is becoming increasingly active, the National Science Foundation awarded David F. Gillespie, associate professor of social work, and Michael W. Sherraden, assistant professor of social work, an 18-month grant to study preparedness for natural disasters in the area.

"The consequences of such a disaster are so devastating and so unusual it is essential that a major volunteer effort be in effect, one which

has been pre-planned so that each participant knows what to do," Sherraden said.

Through telephone and face-to-face interviews, Gillespie and Sherraden are studying organized groups which provide emergency social services and communication when a disaster strikes the area. Those involved include volunteers from the Red Cross, Salvation Army, church groups and other local relief organizations who would be on-the-scene providing shelter, food and clothing. They also include local radio and television announcers and ham radio operators who would keep the public informed of the extent of the disaster and what they should do.

"We are documenting the disaster preparedness that exists now, and with that knowledge we'll know what needs to be done to improve disaster preparedness," Gillespie said. "That could mean creating more volunteer groups or thinning some out. We may find that all the resources are located in one area and need to be more evenly distributed. Some networks of organized volunteers may not be aware of each other and could serve the public better if they joined forces."

The professors say research on coping with natural disaster usually is focused on the work of those who deal with the physical damage, like engineers, architects and geophysicists, rather than on the work of those who deal with disrupted communities, disrupted families and personal stress.

"It's not only falling buildings and broken gas lines that are a con-

cern after a disaster," Sherraden said. "There also may be people who are hurt, or separated from their families and in distress. People issues are the focus of this project."

To be most effective, the social work professors say that coordination among organized volunteers is essential and that pre-planning is an important part of the coordinated effort. A major goal of the project is to provide information which will enhance pre-planning and coordination. In addition, the project will draw on and advance an area of sociology known as network analysis — studying the kind and degree of interaction between emergency preparedness units.

One important role organized volunteers can play before a disaster strikes is to educate the public. "People need to know how to behave so they won't get hurt," Gillespie said. "In an earthquake, for example, the worst thing you can do is run outdoors, but that's your first response. Most people want to see what all the shaking is about. Most of the injuries that are reported in hospitals in the aftermath of an earthquake were caused by flying debris. The best thing to do is to stay put until things calm down."

Gillespie and Sherraden will gather their findings and report them to all the organizations surveyed. Al-

though the study focuses on the St. Louis metropolitan area, it is expected that some of the results can be helpful in other communities seeking to develop disaster preparedness.

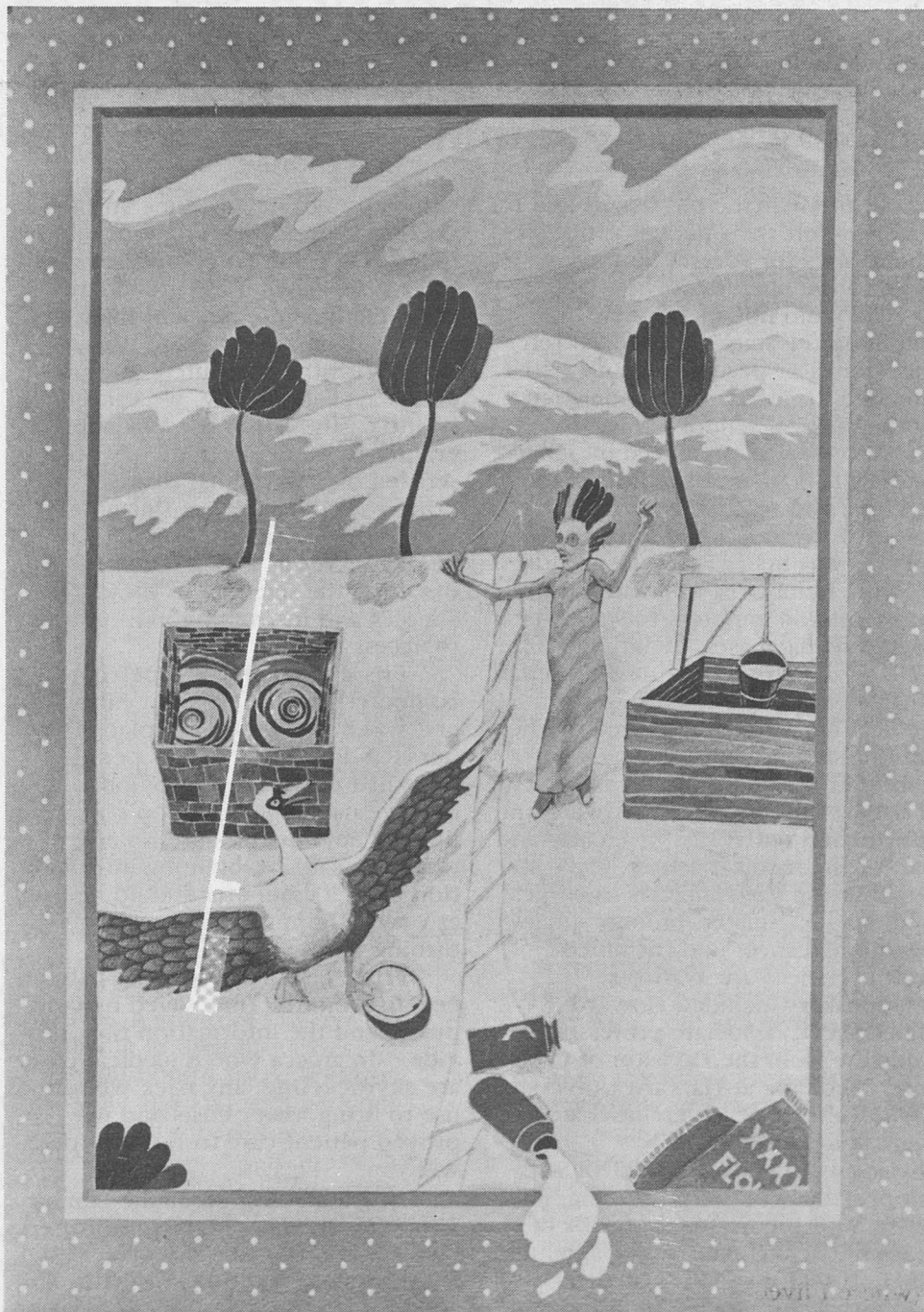
The social work professors note that societal and individual response to natural hazards is increasingly being recognized as important. "We can build strong buildings that can withstand earthquakes, but if you don't teach people how to behave properly, then they're going to get hurt anyway," Gillespie said. "You can't separate these two; a science of people has to be integrated with a science of natural phenomena."

Susan Killenberg

WU percussionists present concert of minimalist music

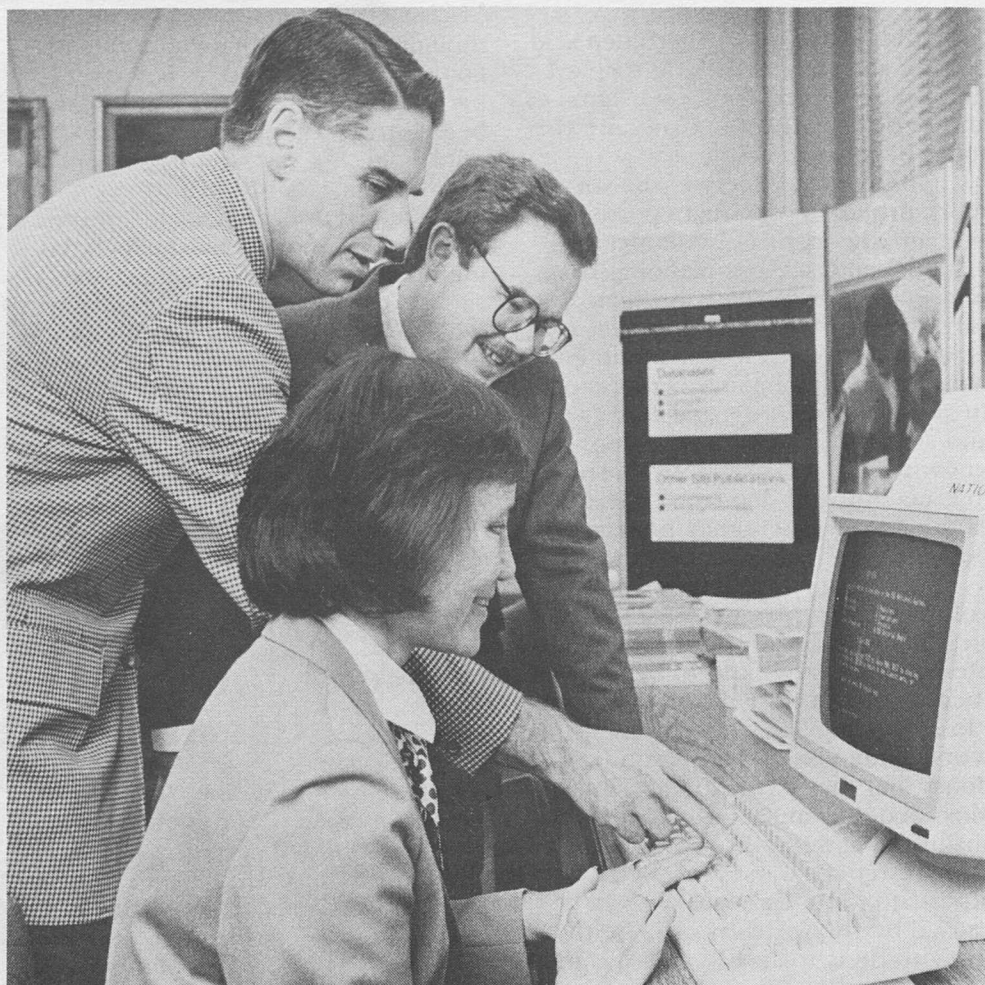
The Percussion Ensemble at WU will present a concert of minimalist music at 8 p.m. Sunday, Dec. 9, in Tietjens Rehearsal Hall, 6500 Forsyth. The concert is free and open to the public.

Director of the ensemble is Richard O'Donnell, principal percussionist of the Saint Louis Symphony, and director of electronic music and the recording studio at WU.



Ugly Duckling: One of a series of illustrations by Steve Wolf for a book titled "The Ugly Duckling" is included in the Master of Fine Arts Thesis Exhibition from Dec. 9 to 21 at WU's Bixby Gallery in Bixby Hall. Master of Fine Arts candidates Wolf and Jerry Auten will be featured in the exhibit. The opening reception is from 2 to 5 p.m. Sunday, Dec. 9. Gallery hours are 10 a.m. to 4 p.m. weekdays and 1 to 5 p.m. weekends. For more information, call 889-6597.

MEDICAL RECORD



Howard Bleich, M.D. (left), associate professor of medicine at Harvard University; Mark Frisse, M.D. (middle), assistant professor of medicine at WU; and Susan Crawford, Ph.D. (sitting), director of the WU medical library, test one of the computer hardware systems on display at the library's Infofair '84.

Infofair '84

Library lends computer knowledge

School of Medicine physicians and researchers left their patient offices and laboratories for several hours Nov. 8 to go to the library.

They did not spend their time searching the stacks of medical reference books or periodicals, but rather, attended "Infofair '84," sponsored by the medical school library.

Infofair was organized by Jennifer Nakeff-Platt, head of information services, and reference librarians Bridget Kowalczyk and Linda Salisbury. It was held in response to the growing number of inquiries on how to use microcomputers to search bibliographic databases, including MEDLINE — the largest and most popular of the computerized databases of medical literature maintained by the National Library of Medicine.

Infofair also provided an overview of databases, computer hardware and information networks for faculty and staff of the medical center. Over 300 databases on such subjects as clinical medicine, chemistry, biology, pharmacology, cancer and the allied health sciences are available.

Speakers included Howard Bleich, M.D., associate professor of medicine from the Division of Computer Medicine at Harvard University and developer of Paperchase, a user-friendly system that allows physicians to search MEDLINE without previous computer training; Mark Frisse, M.D., assistant professor of medicine at WU; and Simon Igielnik, Ph.D., director of WU's Medical Computing Facilities. The program featured other speakers from computer services, as well as exhibits by hardware and software vendors.

Bleich noted that computers are becoming common fixtures in offices and laboratories, due to increased de-

mands on physicians' time and the need to keep up with new developments. He commented on the benefits physicians and researchers receive from computers and from the various databases on hand now.

"With the computers and programs available today, we can quickly and easily search the available literature to see if anything has been written on a particular disease, or if other patients have been diagnosed with such a disease," he said. The library serves as a clearing house by directing the scientist to these sources and instructing him on how to access them.

Frisse compared the current computer revolution to an earlier era, when the Model T replaced the horse and buggy. "Where people once had to develop automobile literacy, we now must develop computer literacy, and doctors are no exception," he said. "Obtaining information from a computer should be just as easy as hopping into a car and turning on the ignition."

Frisse also observed that patients benefit from the time saved by computers and the information they provide. "In an era where medical costs are skyrocketing, any trick we can use to bring lower costs and improved patient care to the bedside is welcome," he said.

The School of Medicine Library is one of the most highly automated medical libraries in the world, said Susan Crawford, Ph.D., director. She added that more than 300 persons attended the day-long Infofair, and that the library staff will sponsor "Infofair '85" next year.

For more information about the library's computer services, call 362-7085.

De Weer, Molnar join WU list of Javits Investigators

Two faculty members will conduct research for the next seven years with funding from Javits Neuroscience Investigator Awards totaling over \$2 million.

To date, faculty members have received six of the 86 Javits Awards presented since the highly competitive awards program began in October 1983. Award recipients are selected three times a year.

The most recent recipients include Paul J. De Weer, M.D., Ph.D., professor of physiology and biophysics at the School of Medicine; and Charles E. Molnar, Sc.D., professor of physiology and biophysics and biomedical engineering at the medical school, and professor and director of the Computer Systems Laboratory.

The U.S. Congress gives the awards in honor of Sen. Jacob K. Javits of New York, on recommendation of the National Advisory Neurological and Communicative Disorders and Stroke Council of the National Institutes of Health. Javits suffers from amyotrophic lateral sclerosis (ALS), more commonly known as Lou Gehrig's disease. ALS is a degenerative neuromuscular disorder that attacks the nerve cells that control muscles.

The awards, given to investigators who have submitted regular research grant applications for competitive review, encourage research and research training in communicative and neurological disorders. The prestigious grants provide a seven-

year commitment of support to the researchers who receive them.

Four faculty members received Javits Awards earlier this year. In February, the first list of recipients included Gerald D. Fischbach, M.D., professor and head of anatomy and neurobiology; Dale Purves, M.D., Ph.D., professor of physiology and biophysics; and Barbara Bohne, Ph.D., associate professor of otolaryngology. Nobuo Suga, Ph.D., professor of biology, received a Javits Award in June.

De Weer uses squid as an experimental model to study the electrical and chemical nature of nerve cell excitation. He is concentrating his research on the sodium-potassium pump. Sodium and potassium flow across the cell membrane, forming the basis of a nerve cell's electrical impulses. Sodium-potassium pump dysfunction is implicated in a wide variety of human diseases, including heart disease, neuro-musculoskeletal diseases and neurological disorders.

Molnar has been investigating the auditory system for more than 20 years. His current emphasis is on the cochlea, or inner ear, where sound is converted into neural impulses. The work of Molnar's lab seeks to improve understanding of the mechanisms and the encoding function of the cochlea. This knowledge could lead to a better characterization of auditory dysfunction and the design of more effective hearing aids.

Television health program continues

The WU Medical Center is featured in "Health Matters," a television series that explores advances in health and medicine, on KETC Channel 9.

Half-hour episodes of "Health Matters" air at 7:30 p.m. each Sunday, with repeat broadcasts on Satur-

days at 11:30 a.m.

Below is a schedule of episodes to air in December and January. Further scheduling will be announced by KETC Channel 9 and published in the Medical Record.

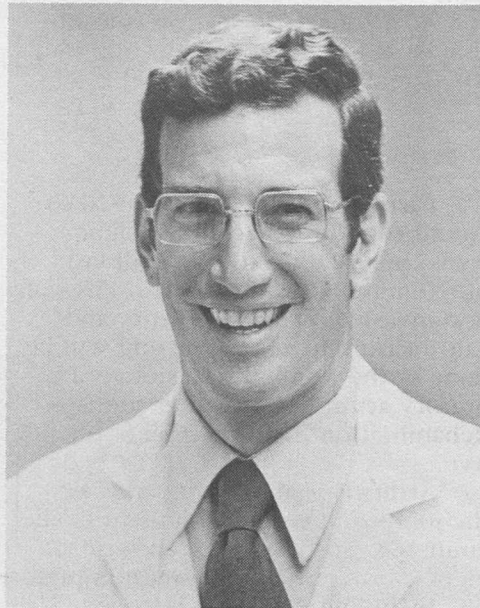
HEALTH MATTERS SCHEDULE

DATE	SUBJECT, GUEST	MEDICAL CENTER AFFILIATION
Dec. 9, 1984	REVERSING INFERTILITY Cat Christianson, RN Ronald C. Strickler, M.D.	Jewish Hospital
Dec. 16, 1984	ADVANCES IN DIABETES Lee Rigg, M.D., Ph.D. Julio Santiago, M.D.	School of Medicine
Dec. 23, 1984	WINDOWS INTO THE BODY Bruce L. McClennan, M.D. William A. Murphy, M.D.	Mallinckrodt Institute of Radiology
Dec. 30, 1984	BREAST CANCER Carlos A. Perez, M.D. Samuel A. Wells Jr., M.D.	Mallinckrodt Institute of Radiology
Jan. 6, 1985	LUNG CANCER Jon Moran, M.D. Shabbir Safdar, M.D.	Barnes Hospital
Jan. 13, 1985	THE HEART ELECTRIC James Cox, M.D. Joseph Ruwittch, M.D.	Barnes Hospital
Jan. 20, 1985	CANCER UPDATE Alexander Denes, M.D. Jay Marion, M.D.	School of Medicine
Jan. 27, 1985	ARTHRITIC JOINT REPLACEMENT Owen Kantor, M.D. Robert Shively, M.D.	Barnes Hospital

Sobel receives achievement award, renewed funding for heart studies

Burton E. Sobel, M.D., professor of medicine and director of the cardiovascular division at the School of Medicine, has received the 1984 Distinguished Achievement Award from the American Heart Association (AHA).

Sobel is one of six recipients of the award, presented Nov. 13 during the AHA's Scientific Sessions in Miami Beach, Fla.



Burton E. Sobel, M.D.

The Distinguished Achievement Award recognizes individuals for major contributions while serving on AHA scientific councils, for adding substantially to new knowledge in the field or to teaching and clinical care, or for leadership in professional organizations.

Sobel, a fellow of the AHA's Councils on Clinical Cardiology and Circulation, is internationally renowned for his thrombolytic therapy research. While at the conference, he announced current results of his studies using an experimental chemi-

cal called t-PA, tissue plasminogen activator. In 35 out of 49 patients, t-PA quickly and safely stopped a heart attack in progress by dissolving the blood clot blocking a coronary artery. This recent study is based on a pilot study Sobel had published earlier this year. The new therapy could save thousands of lives each year.

Sobel is director of a Specialized Center of Research (SCOR), which has received renewed funding of \$9.2 million for the next five years from the National Heart, Lung and Blood Institute. The research, which involves 40 investigators from 12 departments, deals with the heart's response to ischemic injury and is designed to identify new therapeutic approaches for heart disease.

Sobel joined WU in 1973 as an associate professor of medicine and director of the cardiovascular division. He was named professor in 1975, and has served as adjunct professor of chemistry since 1979. He also serves as chief of cardiology at Barnes Hospital, a sponsoring institution of the Medical Center.

Sobel received the doctor of medicine degree *magna cum laude* from Harvard Medical School. He served an internship and residencies in medicine at Peter Bent Brigham Hospital, and was an assistant in medicine at Harvard Medical School.

A member of many professional societies, Sobel also serves on a number of research advisory committees and editorial boards. He presently is editor of *Circulation*. He is the recipient of the 1971 National Heart and Lung Institute's Career Development Award, and the 1981 Heart Research Foundation's International Award.

Sobel has lectured nationally and internationally, and has written more than 300 articles on his cardiology research.



Doug Cole (left), coordinator of occupational therapy's Work Performance Assessment and Training Program, monitors Kevin Smith's progress as Smith operates a computerized tool simulator. Smith, a carpenter, accidentally injured his left hand and arm with an air-powered nail gun.

Rehabilitation program helps injured workers return to jobs

The Department of Occupational Therapy at WU School of Medicine is offering a new program to help injured workers return to their jobs as swiftly and successfully as possible.

The program is sponsored through the Irene Walter Johnson Rehabilitation Institute (IWJ) at the medical school. It is coordinated by Doug Cole, an IWJ occupational therapist.

The Work Performance Assessment and Training Program could serve as a national model, according to Cole. Therapists evaluate workers to determine their physical abilities, then retrain them with the physical skills necessary to perform their jobs. After the half-day evaluation, workers attend training sessions for an average of one month, or until work related goals are met.

"Many of the workers we evaluate are appealing social security benefits," explained Cole. "The IWJ program works closely with lawyers handling these cases. We strive to provide an objective evaluation in order to report the worker's maximum capabilities."

Cole foresees an increased role for the work assessment program in such cases, and was recently invited to speak to the National Organization of Social Security Claimant Representatives, a group of lawyers specializing in disability cases.

In addition to social security cases, Cole and IWJ occupational therapists Sallie Taylor and Debbie Beaulieu evaluate and train workers involved in workman's compensation and insurance cases. The majority of these workers successfully return to work.

The program receives referrals from neurologists, orthopedists, workman's compensation and insurance carriers, and rehabilitation councils. Workers suffer from stroke,

hand and nerve injuries, burns, fractures or back injuries.

Occupational therapists use a variety of exercises and simulated work environments to assess a disabled person's skills in a variety of jobs ranging from sedentary to very heavy physical demands. They grade the worker's speed, posture, endurance, coordination and body mechanics.

Workers receive training in simulated work environments that are equipped with appropriate hand tools. The training program also uses a computerized tool simulator that provides a print-out of the average force exerted, degree of power and actual time spent exercising.

During the work training period, written reports are given to the patient's physician, who then notifies the employer that the worker is fit to return to the job.

The program is geared toward training workers to return to their original jobs rather than to new ones.

"Our goal is to bring workers to their best level of functioning, so they can return to their previous jobs with as few adjustments as possible," said Cole. "Psychological problems can develop when a worker is classified as disabled, or must begin a new job. A return to the original job means that there are less complications, and that the industry saves money."

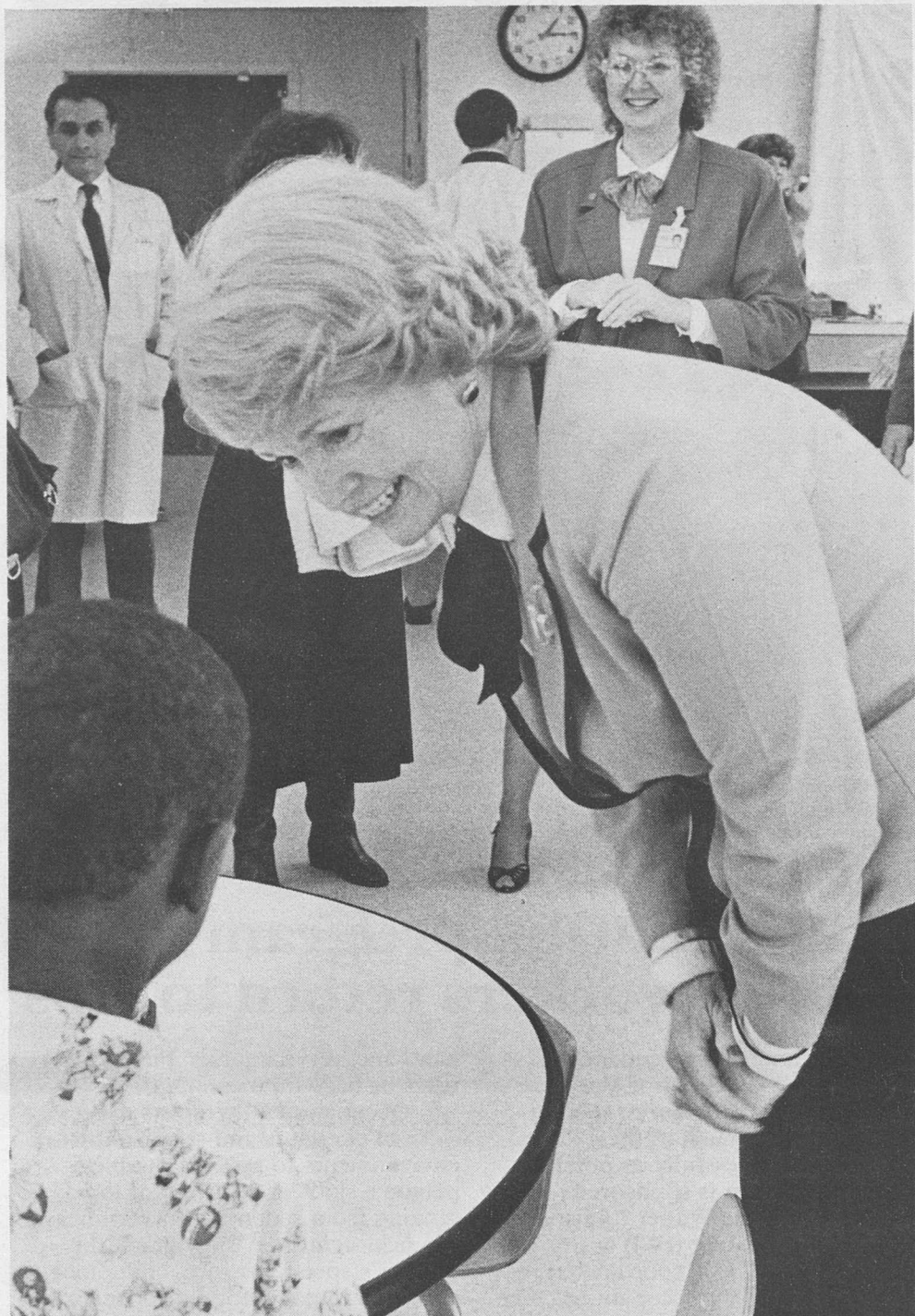
When the injury is so severe that it is impossible to return to a former job, for example one that requires heavy lifting, the worker is either placed on disability or referred to vocational specialists to train for a position requiring less physical exertion, Cole added.

Further information on the Work Performance Assessment and Training Program is available through Cole at 362-2370.



Scholarship: Mary Ann Fritschle (right), president of the Barnes Hospital Auxiliary, presented a \$25,000 gift to James O. Hepner, Ph.D. (middle), director of WU's Health Administration Program, in honor of Robert E. Frank (left), president of Barnes Hospital, a sponsoring institution of the WU Medical Center. The Auxiliary's gift establishes the Robert E. Frank Scholarship in Hospital Administration.

MEDICAL RECORD



VIP Visit: Margaret Heckler, Secretary of Health and Human Services, recently toured Children's Hospital, a sponsoring institution of the WU Medical Center. Her tour included visits with children in the recreation therapy department.

Skin center receives \$20,000 donation

The epidermolysis bullosa center at WU School of Medicine has received a \$20,000 gift from the McDonnell Douglas Employee Charity and Community Services Board.

McDonnell Douglas employees presented the contribution as support for research at the St. Louis center, one of the only two clinical centers in the nation devoted to the study of epidermolysis bullosa (EB).

A rare genetic skin disorder, EB also is known as the "thin skin disease" because of the blistering, scarring and destruction of the skin and mucous membranes that it causes. There is very little treatment and no known cure for the disease. In America alone, 14 varieties of EB threaten the lives of 25,000-50,000 patients, mostly children.

The WU center was established in 1983 with a \$25,000 donation from the Dystrophic Epidermolysis Bullosa Research Assoc. Since then it also has received a gift from the Jamie Hoke Living Trust Fund in Pennsylvania. Locally, the Epidermolysis Bullosa Foundation is working to raise \$1 million to create an operating endowment for the center.

Eugene A. Bauer, M.D., director, and center researchers are trying to determine causes of various forms of EB, and hope eventually to develop a cure or more effective treatment for the disease. Bauer is professor of dermatology at the School of Medicine and a physician at Barnes, Children's and Jewish hospitals, sponsoring institutions of the Medical Center.

More information is available through the EB center at 362-2304.

Medical bookstore moves to East Building

The School of Medicine bookstore has moved to larger quarters on the first floor of the newly renovated East Building, 4525 Scott Ave.

Bookstore manager Ed Lambrechts said the move has tripled the size of the store, which now features wide aisles, attractive decor and appealing merchandise displays.

The bookstore still will provide the same snacks, clothing, books and supplies, but in larger quantities, Lambrechts explained. It will continue to offer its film developing service, and store hours will remain the same: 8:30 a.m.-4:30 p.m., Monday through Friday.

Cancer research funds available

WU scientists conducting cancer research can apply now for up to \$7,500 in funding for a one-year period.

Funds are being allocated through a \$50,000 Institutional Research Grant awarded to WU by the American Cancer Society to help finance promising new cancer research projects by junior investigators. This is the 31st time the society has awarded the grant to the university, which is considered a major center for cancer research.

The committee responsible for allocating funds is chosen by Chancellor William H. Danforth, M.D.,

and currently is chaired by David W. Scharp, M.D., associate professor of surgery. Scharp is on staff at Barnes and Children's hospitals, sponsoring institutions of the WU Medical Center.

Although researchers throughout the university are eligible to apply for the funding, most recipients have come from the medical school. Many have received additional funding for their projects from the American Cancer Society.

Additional information is available from Scharp at campus box 8109 (telephone 362-8320).

Researchers seek volunteers for arthritis study

Investigators at the School of Medicine are seeking volunteers for a study on how specific postural exercises affect the gait and posture of arthritis patients.

The study, funded by the Arthritis Foundation, is being conducted by the medical school's Program in Physical Therapy. Researchers are seeking non-arthritic people aged 40 or older who have no history of joint, muscle or nerve disease, or of pain during standing or walking.

Participants will be paid \$20 to attend two testing sessions, eight weeks apart. Each session will last 60-90 minutes and involve a series of non-invasive, painless posture and gait measurements. All testing will be done in the Applied Kinesiology Laboratory at the Irene Walter Johnson Rehabilitation Institute, 509 S. Euclid Ave.

Arthritis is an inflammation of the joints and connective tissues. The country's most common chronic ailment, it affects some 36 million people, including 250,000 children.

More information is available from Julie McClure or Barb Norton at 362-2407.



Trivial Matters: Roy Bell, research associate in psychiatry, recently won the Easter Seals Trivial Pursuit Contest at the Ramada Inn-Westport. His team members included his father and two brothers, making the Bells the only family team entered. They captured the first place trophy with the winning question: Who was the back-up quarterback (#12) for Bart Starr and the Green Bay Packers? Answer: Zeke Bratkowski.

NOTABLES

Edward Baum, associate professor of architecture, recently was invited to select new buildings to be honored for design excellence by the American Institute of Architects' Kansas City Chapter. Other members of the biennial awards jury were architects Frances Halsband of New York and Stuart Cohen of Chicago. Baum recently served as juror at Harvard's Graduate School of Design. Reviewed was work from the Core Studio, the course Baum taught last year at Harvard as Senior Visiting Critic.

Mark Berlin, Debra Halladay and Gregory Wozniak have been named evening/night administrators at Barnes Hospital, a sponsoring institution of the WU Medical Center. All three are enrolled in the master's program in health administration at the School of Medicine.

Harold Blumenfeld, Roland Jordan, John MacIvor Perkins and Robert Wykes, all composers of WU's Department of Music, had their new music works broadcast from 5 to 7 p.m. Sunday, Nov. 18, on KWMU-FM 91, the National Public Radio affiliate at the University of Missouri-St. Louis. The program, which featured the world premiere of Jordan's "Except Perhaps a Constellation" for flute, tape and chamber orchestra, and a preview of Blumenfeld's opera, "Four-Score: An Opera of Opposites," originally was performed in the University's Fourth Composers' Concert on Sept. 23 in Edison Theatre.

Harold J. Brandon, visiting professor of mechanical engineering, presented a paper at the First Brewing Congress of the Americas, which was held recently at the Cervantes Convention Center in St. Louis. The title of Brandon's paper was "Optimization of Brewery Energy Systems Using Computer-Aided Engineering Principles."

Susan Crawford, director of the School of Medicine Library, chaired a symposium and presented a paper on the "Use of Social Science Information in National Policy Decision-Making" at the annual meeting of the American Society for Information Science in Philadelphia. At this meeting, she also was elected to the editorial board of the Journal of the American Society for Information Science.

Nicholas J. Demerath, emeritus professor of sociology and a resident of Golden Eagle, Ill., has been elected chairperson of the Illinois Family Planning Advisory Council. The council is appointed by the director of the Illinois Department of Public Health to advise him on all aspects of the management and administration of the state's family planning program. Demerath is an author, social scientist and farmer with public health experience in the United States, Asia and Latin America. The family planning program is operated on a contractual basis by more than 40 different health service agencies throughout Illinois. The 15 members of the Advisory Council are broadly representative of the consumers, health professionals and various communities involved in the family health effort.

Wayne W. Enderling, affiliate assistant professor of architecture and director of the Continuing Education Program in the School of Architecture, has been named a principal of Henmi Jen Enderling Inc. Architects and Planners (HJE). The firm's principal in charge of production, Enderling has been associated with HJE and its predecessor since 1980. HJE is the successor to Henmi & Associates Inc. and is the latest evolution of the architectural firm, which has operated continuously since its founding in St. Louis in 1900. Richard T. Henmi, Chih-Chen Jen and Enderling are WU alumni.

Gerald D. Fischbach, M.D., Edison Professor of Neurobiology and head of the Department of Anatomy and Neurobiology, and **Paul E. Lacy**, M.D., Ph.D., Edward Mallinckrodt Professor and head of the Department of Pathology, have received two new microscopes for their departments from Nikon Inc. Instrument Division. The Nikon Alphaphot, to be used in anatomy and neurobiology, is a full-featured binocular microscope specifically designed for classroom and laboratory use. The second microscope, a SMZ-1 zoom stereo microscope with its zoom capability, convenient controls and rugged construction, make it an excellent tool for teaching and research in pathology. Nikon made similar donations to all of the more than 100 medical schools in the United States, as part of their dedication to furthering excellence in medical education.

Jules B. Gerard, professor of law, has received the John C. Vance Award for his paper, "First Amendment Aspects of Control of Outdoor Advertising." The award is given each year by the National Research Council for the best paper in the area of legal resources. Gerard will receive the award Jan. 16 during the council's 64th annual meeting in Washington, D.C. The council is the principal operating agency of the National Academy of Sciences and the National Academy of Engineering to serve government and other organizations.

Hollis Huston, artist-in-residence in drama, is portraying John Moley in the Goldenrod Showboat's current production, "Oh, Brother!" Set in St. Louis during the 1904 World's Fair, the musical melodrama depicts the struggle of two brothers, one good and one evil, who vie for their mother's love. The production runs through the end of December. Huston, who is co-director of National Public Radio's "Holy Roman Radio," also stars as Frankenstein's monster in the Bud Light commercial that airs during ABC-TV's Monday Night Football. **Agnes Wilcox**, visiting artist in the drama division, is director of "Oh, Brother!" Wilcox has directed at the Actors Studio in New York City; the Berkshire Theater Festival in Stockbridge, Mass.; and the Studio Raymond Duncan in Paris, France.

Annelise Mertz, director of the Dance Division and artistic director of the St. Louis Repertory Dancers, traveled to New York in mid-October to see the world premiere of her newest choreography, titled "Ceremonial Figure." Satoru Shimazaki, currently a New York-

based modern dancer and former visiting artist in WU's Dance Division, performed the work at the Merrymount Manhattan Theatre. The work will be added to Mertz's "Journeys With Satie," a suite of dances choreographed to music by French composer Erik Satie. **Bonnie Cutter**, artist-in-residence in the Performing Arts Area, designed Shimazaki's costume.

Constantine E. Michaelides, dean of the School of Architecture, was invited to serve on the jury for the Masonry Institute of Michigan's 10th annual 1984 Honor Awards Program for Excellence in Masonry Design. Jury members judged the entries on Nov. 8 at the architectural firm of Hellmuth, Obata and Kassabaum, located in downtown St. Louis. The awards will be presented in Michigan in late January. Through the competition, the Masonry Institute seeks to honor works of distinction by members of the Michigan Society of Architects and to bring to public attention outstanding buildings and projects designed by Michigan architects.

Richard O'Donnell, director of WU's recording studio and the electronic music program, and principal percussionist of the Saint Louis Symphony Orchestra, was commissioned by the Percussive Arts Society to compose and perform a work for large chorus and solo percussion. He performed his work, titled "Ferrous Lilac," at the 1984 Percussive Arts Society-International Conference, held Nov. 1-4 in Ann Arbor, Mich. O'Donnell played the composition on a large synthesizer, interfaced with a computer, which he had designed and built.

George D. Selfridge, dean of the School of Dental Medicine, has been elected to the status of master by the International College of Dentists (ICD), an international organization of leaders in the dental profession. The status of master in the ICD is achieved by those who, in the opinion of the organization's board of regents, are particularly distinguished for "personal character, position of influence and honor, eminence in practice or in dental research, or other remarkable attainments in the sci-

ence and art of dentistry." There are only 100 masters among the ICD's 5,000 fellows. Selfridge served as president of the ICD from 1977 to 1980.

Isidore Silver, Rosa May Distinguished University Professor Emeritus in the Humanities, has been invited by Robert Aulotte of the Sorbonne and president of the Societe Francaise des Seiziemistes, to join Raymond Lebegue, professor emeritus of the Sorbonne and a member of the Institute de France, in a Comite d'honneur to prepare for a colloquium on poet Pierre de Ronsard. The colloquium will be held in Paris and Tours in September 1985 to commemorate the fourth centenary of the death of the poet.

Louis M. Smith, professor of education, presented a workshop and gave the keynote address, "Ethnographic Next Steps: Triangulation and Multimethods Reconsidered," to the 1984 Annual Meeting of the Rocky Mountain Educational Research Association Oct. 26 in Oklahoma City, Okla.

Dan Timmons, business manager of the Department of Internal Medicine at the School of Medicine, has been named 1984-85 president of the Administrators of Internal Medicine (AIM). AIM is a national organization that works to improve health care delivery, education and research in departments of internal medicine through professional management.

Frederick Sweet, professor of reproductive biology in the Department of Obstetrics and Gynecology, has been named a member of the editorial board of Endocrine Reviews. The journal is published by the Endocrine Society.

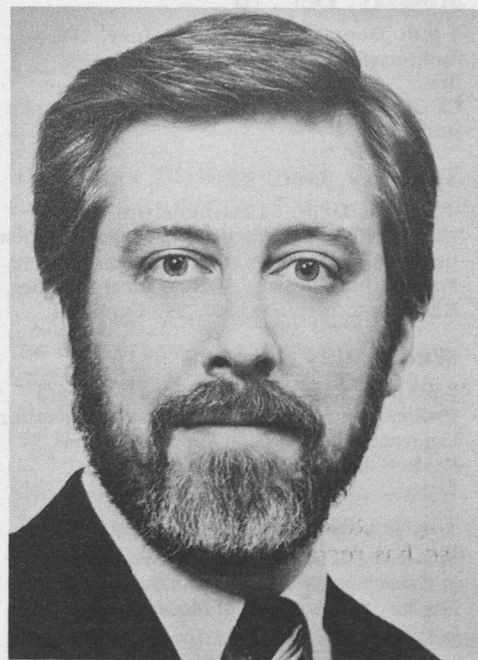
John F. Zipp, assistant professor of sociology, chaired a roundtable discussion, titled "Structural Changes in the Labor Force," at the St. Louis Community College Studies Program Series Nov. 1 on the Meramec campus.

New orthodontics chairman named

Richard Jay Smith has been named chairperson of the Department of Orthodontics at the School of Dental Medicine. The announcement was made by George D. Selfridge, dean of the School.

Smith comes to WU after serving four years as director of the postgraduate orthodontic program at the University of Maryland Dental School. He previously had taught at the dental schools of Tufts University and the University of Connecticut.

A graduate of Brooklyn College, Smith received a master's degree in anatomy and a dental degree from Tufts University. After postgraduate training in orthodontics at the University of Connecticut, Smith was awarded a master's degree and doctoral degree in anthropology from Yale University. He also has been a visiting professor at Johns Hopkins University School of Medicine.



Richard Jay Smith

CALENDAR

Dec. 6-15

LECTURES

Thursday, Dec. 6

1:10 p.m. George Warren Brown School of Social Work Colloquium, "Women and Alcohol." Panel discussion with Laura Root, adjunct prof., WU School of Social Work and training and special projects director, Hyland Center; Barbara Hand, Family Week Program counselor, Hyland Center; Millie Bradenburger, volunteer department coordinator, Hyland Center; and Patricia Nabholz, outpatient chemical dependency counselor, Hyland Center. Brown Hall Aud.

3:30 p.m. Center for the Study of American Business Public Choice Workshop, "Control and Feedback in Economic Regulation: The Case of the NLRB." Terry M. Moe, senior fellow, government studies, Brookings Institution. 300 Eliot.

4 p.m. Dept. of Chemistry Seminar, "Biological Antioxidants." Keith U. Ingold, National Research Council of Canada. 311 McMillen.

4 p.m. Dept. of Music Lecture, "Musical Analysis: Towards a More Inclusive Approach." Robert Morgan, prof. of music, Chicago U. Blewett B-8.

4 p.m. Dept. of Earth and Planetary Sciences Seminar, "Peculiar Mantle Melts: Kimberlites, Lamproites and other Ultrapotassic Igneous Rocks." Steve Bergman, Arco Oil and Gas Co., Dallas, Texas. 102 Wilson.

4:30 p.m. Dept. of Mathematics Colloquium, "White Noise Illuminates Black Holes." Lawrence Markus, prof., U. of Minn. 199 Cupples I.

4:30 p.m. School of Architecture Afternoon Lecture Series, "Van Alen Scholarship Project." Matt Freeby, construction manager, Bunce Corp. 116 Givens.

5:15 p.m. Division of Radiation Oncology Julia Hudson Freund Memorial Lecture, "Multidisciplinary Cancer Centers and Universities — Pluses and Minuses." John R. Durant, pres., Fox Chase Cancer Center. Scarpellino Aud., Mallinckrodt Institute of Radiology, 510 S. Kingshighway.

Friday, Dec. 7

6 and 8:30 p.m. WU Association Travel Film Lecture, "The Great World Cruise of the Queen Elizabeth 2." Douglas Jones, filmmaker. Graham Chapel. For more info., call 889-5122.

8:30 p.m. Hillel Lecture, "Plight of Latin American Jewry." Richard Freund, vice-rector, Seminario Rabinico Latino Americano, Buenos Aires, Argentina. Hillel House, 6300 Forsyth.

Saturday, Dec. 8

10 a.m. WU and The Opera Theatre of St. Louis Lecture, "Gilbert and Sullivan's Japan: Orientalism in 'The Mikado.'" Michael Beckerman, WU asst. prof. of music. Women's Bldg. Lounge. Fee is \$35 which includes three lectures and admission to the final dress rehearsal of "The Mikado" at Edison Theatre on Tues., Dec. 18. For more info., call 889-6735.

Monday, Dec. 10

4 p.m. Dept. of Biology Seminar, "How Auditory Space Is Encoded in the Owl's Brain." Mark Konishi, Division of Biology, California Institute of Technology. 322 Rebstock.

Tuesday, Dec. 11

4:30 p.m. Dept. of Mathematics Colloquium, "The E-M Algorithm in Statistical Genetics." Elizabeth Thompson, lecturer, Dept. of Pure Mathematics and Mathematical Statistics, U. of Cambridge, England. 199 Cupples I.

Wednesday, Dec. 12

2:30 p.m. Center for the Study of Data Processing Symposium, "Fourth Generation Languages and Decision Support Systems." Kevin Kalkhoven of Comshare Inc. 101 Lopata.

3:30 p.m. Dept. of Mathematics Analysis Seminar, "The Schroeder Bernstein Property in Banach Space Theory — A Survey." Peter Casazza, professor, U. of Mo.-Columbia. 203 Cupples I.

4 p.m. Dept. of Biology Seminar, "Mammalian Cell Growth on Liquid Interfaces." Charles Keese, General Electric, Schenectady, N.Y. 322 Rebstock.

Thursday, Dec. 13

4 p.m. Dept. of Chemistry Seminar, "Metallacumulenes, Alkyne Complexes and Deprotonated Ligands." Jack P. Selegue, prof. of chemistry, U. of Ky. 311 McMillen.

4 p.m. Dept. of Philosophy Lecture, "The Idealistic Critique of Kant." Karl Ameriks, assoc. prof. of philosophy, Notre Dame U. Hurst Lounge, Duncker Hall.

4 p.m. Dept. of Earth and Planetary Sciences Carl Tolman Honorary Lecture on Precambrian Geology, "Supercontinents, 'World-Wide' Orogenies, Anorogenic Magmatism, and the North American Precambrian Craton." Paul F. Hoffman, geologist, Geological Survey of Canada, Ottawa, Ontario. 102 Wilson.

4:30 p.m. Dept. of Mathematics Colloquium, "From Limit Theorems of Probability to Quantitative Results for Brownian Motion." Jean-Pierre Imhof, prof., U. of Geneva. 199 Cupples I.

Friday, Dec. 14

1-6 p.m. Women and Peace Colloquium on "Women in Central America." Slide presentations, music, poetry and journal readings. Women's Bldg. Lounge.

Saturday, Dec. 15

10 a.m. WU and The Opera Theatre of St. Louis presents lecture, "Opera Theatre's Production of 'The Mikado.'" Stage director to be announced. Women's Bldg. Lounge. Fee is \$35 for three lectures on "The Mikado" and admission to the final dress rehearsal of "The Mikado" at Edison Theatre on Tues., Dec. 18. For more info., call 889-6735.

MUSIC

Thursday, Dec. 6

5 p.m. Dept. of Music Symphonic Winds Holiday Concert. Wohl Center.

Saturday, Dec. 8

8 p.m. Dept. of Music Madrigal Singers Concert. Holmes Lounge.

Sunday, Dec. 9

3 p.m. Dept. of Music Civic Chorus Concert with Douglas Weeks conducting. Delmar Baptist Church, 6195 Washington Ave.

8 p.m. Dept. of Music WU Percussion Ensemble Concert with Rich O'Donnell, director. Tietjens Rehearsal Hall.

PERFORMANCES

Thursday, Dec. 6

8 p.m. Thyrsus presents Student Dance Concert at 207 Mallinckrodt Center. (Also Fri., Dec. 7, Sat., Dec. 8, and Sun., Dec. 9, same time, 207 Mallinckrodt.) Admission is \$2. For more info., call 889-5858.

Friday, Dec. 7

8 p.m. Thyrsus presents Student Dance Concert at 207 Mallinckrodt Center. (Also Sat., Dec. 8, and Sun., Dec. 9, same time, Mallinckrodt.) Admission is \$2. For more info., call 889-5858.

Saturday, Dec. 8

2:30 p.m. The Metropolitan Ballet presents "The Nutcracker" at the Scottish Rite Cathedral, 3633 Lindell Blvd. Proceeds to benefit Children's Hospital. (Also Sun., Dec. 9, same time, Scottish Rite Cathedral.) Admission is \$6 for adults and \$4 for children. To order tickets, write to Mrs. Sharon Sienaski, 1216 Hidden Oak Rd., Chesterfield, Mo., 63017. For more info., call Children's Hospital Community Relations at 454-6080.

EXHIBITIONS

"Master Prints." Through Dec. 30. Gallery of Art, print gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For evening hours, call 889-5490.



World Cruise: Chinese junks sail past skyscrapers in the harbor of Hong Kong — one of 24 exotic ports of call shown in "The Great World Cruise of the Queen Elizabeth 2," a WU Association Travel Film Lecture. The travelogue will be narrated and shown at 6 and 8:30 p.m. Friday, Dec. 7, in Graham Chapel. For more information, call 889-5122.

"Classics in the Neurosciences." WU School of Medicine, Medical Library Annex, 615 S. Taylor. Through Dec. 31. Open weekdays, 8:30 a.m.-5 p.m.

"The Faculty Show." Through Dec. 30. Gallery of Art, upper gallery, 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For evening hours, call 889-5490.

"Nineteenth Century Art from the Permanent Collection." Through March 3. Gallery of Art, lower gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For evening hours, call 889-5490.

"American Indians Today — Walking Two Paths." Through Feb. 1. Olin Lib., level 3. Regular library hours.

"Master of Fine Arts Thesis Exhibition." Dec. 9-21. Bixby Gallery, Bixby Hall. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends.

MISCELLANY

Friday, Dec. 7

7:30 p.m. Inter-Varsity Christian Fellowship Meeting, "Relationships." Green Stuffs Line, Wohl Center.

Sunday, Dec. 9

2:30 p.m. Tyson Research Center Open House Tour hosted by Becky Milner, nature interpreter guide. Sponsored by Friends of Tyson. For reservations, call Tyson at 938-5346.

Monday, Dec. 10

5:45 p.m. Society of Professors Emeriti Seventh Annual Banquet. Whittemore House, 6440 Forsyth. The cost is \$15 a person. For more info., call 889-6514.

Wednesday, Dec. 12

1-3 p.m. Personal Computing Education Center Short Course, "Formletters." Pat Taylor, associate, Center for the Study of Data Processing. (Also Thurs., Dec. 13, same time.) Free to WU community. For location and other info., call 889-5813.

8 p.m. The Writers' Program Poetry and Fiction Readings. Hurst Lounge, Duncker Hall.

Friday, Dec. 14

7:30 p.m. Inter-Varsity Christian Fellowship Christmas Vespers. Women's Bldg. Lounge.

FILMS

Thursday, Dec. 6

7 and 9 p.m. WU Filmboard Series, "Yojimbo." \$2. Brown Hall.

Friday, Dec. 7

8 and 10 p.m. WU Filmboard Series, "Flashdance." \$2. Brown Hall. (Also Sat., Dec. 8, 8 and 10 p.m., and Sun., Dec. 9, 7 p.m., Brown.)

Midnight. WU Filmboard Series, "Barella." \$1.50. Brown Hall. (Also Sat., Dec. 8, at midnight, and Sun., Dec. 9, 9 p.m., Brown.)

Friday, Dec. 14

8 and 9:45 p.m. WU Filmboard Series, "Zelig." \$2. Brown Hall. (Also Sat., Dec. 15, at 8 and 9:45 p.m., and Sun., Dec. 16, at 7 p.m., Brown.)

11:30 p.m. WU Filmboard Series, "The Graduate." \$1.50. Brown Hall. (Also Sat., Dec. 15, at 8 and 9:45 p.m., and Sun., Dec. 16, 7 p.m., Brown.)

SPORTS

Thursday, Dec. 6

10:30 p.m. Hockey, WU vs. Logan College. Affton Rink.

Friday, Dec. 7

7:30 p.m. Women's Basketball, WU vs. Missouri Valley College. Field House.

Monday, Dec. 10

7:30 p.m. Women's Basketball, WU vs. Fontbonne College. Field House.

Wednesday, Dec. 12

7:30 p.m. Men's Basketball, WU vs. Maryville College. Field House.

Calendar Deadline

The deadline to submit items for the Jan. 17-26 calendar of the *Washington University Record* is Jan. 3. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Address items to King McElroy, calendar editor, Box 1142.