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 bacterium to attach to teeth.

“Tnctexefl...” Curtiss suggests 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 believes that the vaccine may be effective on adults if given in conjunction with a dentist’s thorough teeth cleaning.

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 Capps, WU trustee, is chairman of the campaign.

Galenforth 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 H. Hollenstein, all-time favorite dance major. Gale Omriment, artist-in-residence in dance, is lighting designer and technical advisor.

The concert is co-sponsored by the Student Union and Thyrus, a student-run Performing Arts Area organization. Admission is $2 at the door. For more information, call 889-5858.
James McGarrell, professor of art, has bought McGarrell’s ‘Crossing Move.’


The 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 Duca 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.

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.

“Both of us were interested in the Renaissance,” Scholz-Williams said. “We were looking around among our colleagues to find who was sharing my interests. I found quite a few. Everyone approached the course was enthusiastic and subsequently helped in its organization. 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
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, associate 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 concern 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. Although 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 Tierjems 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.


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.
De Weer, Molnar join WU list of Javit's Investigators

Two faculty members will conduct research for the next seven years with funding from Javit's Neurosciences Investigator Awards totaling over $2 million.

To date, faculty members have received six of the 86 Javit's Neurosciences Investigator 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 Javit's Neurosciences Investigator 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 Saturdays 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.

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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.

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 chemical 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 (SCORE), 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.

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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 or 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 counselors. 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.
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 receiving $20,000 donation 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.

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.

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, 1525 Scott Ave. Bookstore manager Ed Lambrecht said the move has tripled the size of the store, which now features wide aisles, attractive decor and appealing merchandise displays. The bookstore will provide the same snacks, clothing, books and supplies, but in larger quantities. Lambrecht 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-arthritis people aged 40 or older who have no history of joint, muscle or nerve disease, or 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 362-2107.
Edward Baum, associate professor of architecture, recently was invited to select new buildings to be hon- orized in the Nevada Chapter of the American Institute of Architects' Kansas City Chapter. Other members of the University's School of Architecture Frances Halsband of New York and Stuart Cohen of Chicago. Baum was also invited to Harvard to be honored at the Harvard Graduate School of Design. Baum's work was from the Core Studio, the first 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 department 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 Jor- dan, John MacLvor 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 WU-FM WU's Public Radio affiliate at the University of Missouri-St. Louis. The program, which featured the world premiere of Jordan's "Except Perhaps a Constel- lation," was produced by the WU-FM radio department, as part of their dedication to further- ing music education in medical schools. The program included works by such New York-composers as John Zipp, John F. Zipp, Series Nov. 1 on the Meramec cam- paign for "Oh, Brother!" Wilcox has directed the "Use of Social Science Informa-
tion of the organization's board of re-
ning of medicine.

Susan Crawford, director of the School of Medicine Library, chaired a symposium at the library on the "Use of Social Science Informa-
tion in the context of the University of Miami School of Medicine Library." Crawford was elected to the editorial committee of the journal "Information Science and Technology in Medicine and Health Care." Crawford is also the chair of the American Society for Information Science's American Society for Information Science's Electronic Mail and Information Systems Committee.

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's appointment by the director of the Illinois Department of Public Health to advise him on all aspects of the state's family planning program. Demerath is an author, social scientist, and farmer. His work in the United States, Asia and Latin America. He has lived on a small farm in Illinois, where he has had a prolific writing career, including articles in the American Journal of Sociology, the American Sociological Review, and the American Journal of Economics and Sociology. He has also taught at the University of California, Berkeley, and at the University of Chicago. He is currently a visiting professor at Harvard University.

Wayne W. Enderling, affiliate as-
ssistant professor of architecture and
director of the Continuing Education Program in the School of Architecture,
has been named a principal of Henni Jorden Enderling Inc. Architects and Planners. HJIEP's firm's prin-
cipal in charge of production. Enderling has been associated with HJIEP and his predecessor since 1980. HJIEP is the successor to Henni & As-
soclates Inc. and is the latest evolu-
tion of an architectural firm, which has operated continuously since its founding in St. Louis in 1900. Richard T. Henni, Chih-Jen Jorden and Enderling are WU alumni.

Gerald D. Fischbach, M.D., Edwin Professor of Neurobiology and head of the Department of Anatomy and Neurobiology, and Paul E. Lacy, M.D., Ph.D., Gerhard Mullinckrodt Professor and head of the Depart-
ment of Pathology, have received two new microscopes for their depart-
ments from Nikon Inc. Instru-
cion. The Nikon microscope, to be used in anatomy and neuro-
biology, is a full-featured binocular microscope specifically designed for classroom and laboratory use. The second microscope, a SMZ-1 zoom stereo microscope with interchangeable objectives, covers a wide range of magnification. The microscope is designed to be used in anatomy and neurobiology, and is specifically designed for use in the schools of medicine, as part of their dedication to further-

Jules B. Gerard, professor of law, has received the John C. Vance Award for his paper. "First Amend-
ment Aspects of Control of Outdoor Advertising." The award is given each year by the National Research Council and is one of the most prestigious awards in the area of legal resources. Gerard will receive the award Saturday, June 16 during the council's 44th annual meeting in Washington, D.C. The council is the principal operating agency of the Na-

tion's largest law school. The National Academy of Engineering to serve government and other or-

Hollis Huston, artist-in-residence in the Center for the Performing Arts, has received a major grant from the National Endowment for the Arts. The grant will be used to produce the musical "Oh, Brother!" Wilcox, director of the Center for the Performing Arts, is also a member of the American Society for Information Science and Technology in Medicine and Health Care.

New orthodontics chairman named

Richard Jay Smith has been named chairperson of the Department of Or-

thumb to a coloratura soprano and pianist of the Saint Louis Symphony Orchestra. He has been named to the editorial board of the Journal of the American Society for Information Science and Technology. Smith is also a member of the American Society for Information Science's Computer-Aided Engineering Principles Committee.

John F. Zipp, assistant professor of sociology, chaired a roundtable dis-
cussion titled "Structural Change in the Labor Force," at the St. Louis Community College Studies Program Series Nov. 1 on the Meramec cam-

Frederick Sweet, professor of re-

productive biology in the Depar-
tment of Obstetrics and Gynecology, has been named a member of the editorial board of Endocrine Reviews. The journal is published by the End-

Society.

John F. Zipp, assistant professor of sociology, chaired a roundtable dis-
cussion titled "Structural Change in the Labor Force," at the St. Louis Community College Studies Program Series Nov. 1 on the Meramec cam-

Richard Jay Smith
LECTURES

Thursday, Dec. 6
1:10 p.m. "World Cruise: 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, at midnight, and Sun., Dec. 9, 9 p.m., Brown.)

Friday, Dec. 7

Saturday, Dec. 8

Sunday, Dec. 9

Wednesday, Dec. 12
7:30 p.m. "Formletters," Pat Beckerman, WU asst. prof, of music. Women's Bldg. Lounge. (Also Thurs., Dec. 13, same time, 207 Mallinckrodt.) Admission is 82.

Thursday, Dec. 13
4 p.m. Dept. of Chemistry Seminar, "Metalacumulenes, Alkene Complexes and Deprotonated Ligands," Jack P. Selgar, prof. of chemistry. U. of Ky. 111 McMullen.

Friday, Dec. 14
4 p.m. Dept. of Philosophy Lecture, "The Idealistic Critique of Kant." Annemarie Schimmel. Tietjens Rehearsal Hall.

Saturday, Dec. 15
10 a.m. WU and The Opera Theatre of St. Louis presents lecture, "Opera Theatre's Production of "The Mikado,"" a director to be announced. Women's Bldg. Lounge. Fee is 85 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 889-6759.

MUSIC

Thursday, Dec. 6
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.

Friday, Dec. 7
2:30 p.m. "Eighth Annual Banquet. Whittemore House, 6440 Forsyth. The cost is 815 a person. For reservations, call Tyson at 938-5346.

Sunday, Dec. 9
8 p.m. Dept. of Music Percussion Ensemble Concert at rich O'Donnell, director. Tietjens Rehearsal Hall.

Sunday, Dec. 9
9 p.m. "Mistress Sacheverell." Stage director is Donald Runnicles. McMillen. For more info., call 889-5858.

Wednesday, Dec. 12
8 p.m. "Classics in the Neurosciences," WU School of Medicine. Medical Library Annex. 5:30 p.m. Taylor. Through Dec. 31. Open weekdays, 8:30 a.m.-5 p.m.

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SPORTS

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 Work Program counselor, Hyland Center; Dr. Mary BredaBider, volunteer department coordinator, Hyland Center; and Patricia Sabihof, outpost chem- dependency counselor, Hyland Center. Brown Hall.


4 p.m. Dept. of Chemistry Seminar, "Biological Antioxidants," Keith U. Ingold, assoc. prof., WU School of Social Work and training and special projects director. Hyland Center; Barbara Hand, Family Work Program counselor, Hyland Center; Dr. Mary BredaBider, volunteer department coordinator, Hyland Center; and Patricia Sabihof, outpost chem- dependency counselor, Hyland Center. Brown Hall.

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.

"Nineteenth Century Art from the Perma- nent 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.


"Master of Fine Arts Thesis Exhibition." 10 a.m.-4 p.m. weekdays. 1-5 p.m. weekends.

DEC. 6-15