

Professor planning dictionary of language spoken by Maya



Dr. Louanna Furbee-Losee

Dialysis work at UMC draws wide attention

Research at the UMC Medical Center may help change the entire spectrum of dialysis treatment for kidney patients within the next five years.

Dr. Karl Nolph, chief of the nephrology division of the UMC department of medicine, is leading studies of different methods of dialysis. The research has drawn national attention from other health-care institutions, raising hope for a plan to reduce the cost of dialysis while increasing efficiency and convenience.

"Currently about 25,000 patients with chronic renal failure are dependent on chronic hemodialysis, a system where the blood is circulated through an artificial kidney machine outside the body and returned to the patient minus the undesirable components (solutes) which are normally eliminated by kidneys," Dr. Nolph says. "Approximately 300 patients are supported by chronic peritoneal dialysis where a similar result is achieved by repeatedly filling and draining the peritoneal cavity in the abdomen with a dialysis solution. Although peritoneal dialysis is often used in acute situations, its use for chronic dialysis has been limited in the past."

However, Dr. Nolph's research may show peritoneal dialysis in the preferred method. It may prove to be less costly, more convenient for patients and actually more efficient in removing the most toxic solutes.

In dialysis, blood and a dialysis solution called dialysate are passed close to each other across a membrane. The smaller undesirable solutes, seeking to find equilibrium with the dialysate, pass through the membrane, while larger proteins and blood cells pass on because they cannot

penetrate the membrane. In hemodialysis the patient's blood is circulated through hundreds of narrow cellulose tubes surrounded by dialysate. Undesired solutes disperse through the tubes into the solution and the 'cleaned' blood is returned to the patient.

The peritoneal cavity is formed by a bag-like membrane which surrounds the organs in the abdomen. A system of capillaries runs beneath the membrane. Dialysis can be achieved by filling the cavity with dialysis solution. As the blood circulates through capillaries, undesired solutes migrate into dialysate. About two liters of solution are circulated through the cavity each hour.

"Hemodialysis has some disadvantages which may never be overcome," Dr. Nolph says. "The patient must have a permanent shunt or fistula in the arm. Anti-coagulants must be used to keep blood from clotting in the machine, but increase the risk of bleeding. There is inevitable blood loss and danger of great blood loss in case of dialyzer rupture. It is expensive and bulky and confining for the patient."

In-hospital dialysis costs about \$25,000 per year per patient. Home dialysis costs about \$7,000 per year, plus the

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While the Mayan civilization that once flourished in Mesoamerica crumbled long before the Spanish Conquest, there remain in the area more than 2 million Maya-speaking Indians.

Scattered throughout Guatemala, across the Mexican states of Yucatan, Campeche, Chiapas, some as far north as Veracruz and San Luis Potosi, the Maya of today are mostly poor, mostly illiterate, many of them living in houses not much different, really, from those inhabited by their ancestors many hundreds of years ago. In all, there are about 30 groups of the cultural descendants of the Maya, each speaking a language uniquely its own, but which is believed to have developed from the same "proto-language" as that from which each of the other groups' languages derived.

The eventual reconstruction of this proto-language may be possible, according to a UMC assistant professor of anthropology, Dr. Louanna Furbee-Losee, through painstaking study of each of the languages spoken by these groups.

"There is an assumption in historical linguistics," she explains, "that if you keep tracing languages back, you will eventually get to some 'mother' language—the proto-language. What probably happened in the case of the Mayan language was that dialects of it, speakers of those dialects, drifted apart, and the dialects changed out of contact with one another. Eventually they became different languages, and then those groups split, too. So you get something that looks sort of like a family tree. It's a nice concept. It's probably not reality, exactly, but we do work as though it were real."

Dr. Furbee-Losee is concerned with Tojolabal, a Mayan language now spoken by about 30,000 Indians in Chiapas, which is contiguous with much of Guatemala's northern and western border. With the help of \$34,626 granted to her by the National Endowment for the Humanities, she and several graduate students are spending this semester in Chiapas, talking with Indians and taping what are known as "texts."

"In the linguistic sense," she explains, "'texts' are examples of discourse—stories of one sort or another, transcriptions of conversation, speeches. For instance, there is a ritual speech form. I have a ritual speech that is given on All Saints Day in some villages. And I have a lot of fables. These are stories about 'Uncle Rabbit,' for example, who is a trickster figure, and 'Uncle Coyote,' who is dumb, and about animals in general. I have a few myths, some dreams and a fair number of supernatural personal experiences. These are interesting culturally, too."

According to tradition in American linguistic anthropology, Dr. Furbee-Losee has three primary responsibilities as a scholar mapping the topography of an unfamiliar language. She must prepare a Tojolabal grammar, an edited group of texts and a dictionary. With the grammar already completed, she is now focusing her attention on the texts and the dictionary, on which she will work simultaneously, with the help of a computer.

Every tape recording will be transcribed, and the transcription meticulously broken down for consumption by the computer. "We'll have four lines of transcription," she says. "First we'll have a direct transcription, followed by a morpheme-by-morpheme glossing of everything in the first line. [A morpheme is a meaningful part of a word. The word 'meaningful,' for example, has three morphemes—"mean," "ing" and "ful."] Then we'll have a word-by-word glossing, and finally a free translation—in English."

These four basic lines of input, explains John Pappas, a graduate student in computer science who will be working on the project, will be coded and entered into the computer. "The main function of the computer," he says, "will be to store these texts and catalogue them. Within the morpheme glossing and the word glossing is a one-to-one correspondence between the words in the text and their associated meanings and grammatical descriptions. The

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Spectrum

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Sidelines

Spencer award

The 1977 Kenneth A. Spencer Award has been presented to Dr. Irvin E. Liener, professor of biochemistry at the University of Minnesota, in recognition of his achievements in agricultural chemistry.

Dr. Liener, who is regarded as the world authority on toxic constituents in plant protein materials, received the award last night in Kansas City at a public meeting of the Kansas City section of the American Chemical Society.

Hogan address

Dr. Raymond Reiser, distinguished professor of biochemistry and physics at Texas A & M will deliver the Albert G. Hogan memorial address on Feb. 15 in connection with Nutrition Emphasis Week at UMC.

Dr. Reiser's topic will be "Dietary Influences on Steroid Metabolism." The lecture will be presented at 7:30 p.m. in the Medical Center Auditorium.

Best known for his work on the chemistry, metabolism and nutrition of fat and fat-like substances, Dr. Reiser has done considerable research in diseases of the heart and blood vessels, to which half the deaths in the United States each year are attributed.

The Hogan Lecture is presented annually in honor of the former head of UMC's agricultural chemistry department, who retired in 1955 after 32 years of teaching and research. Dr. Hogan achieved wide recognition for his discoveries in basic nutrition and for discovering and identifying several vitamins.

Post for Muhrer

Dr. Merle E. Muhrer, UMC professor of biochemistry, has been elected head of the North Central Region's Experiment Station Collaborators.

The collaborators who represent the 13-state region coordinate the state and federal research efforts by carrying information between the regional experiment stations and the USDA's Regional Laboratory in Peoria, Ill.

Weber and critics

Guenther Roth, professor of sociology at the University of Washington-Seattle, will be at UMC on Feb. 22 to present a lecture entitled "Max Weber and His Critics: Some Issues in Structural History and Macrosociology." The lecture has been scheduled for 8 p.m. in the Memorial Union Auditorium.

Wells scholarship

A scholarship named for the late Frank Wells, former state representative from Warrensburg, has been established at UMC through a bequest of his widow, Mrs. Nellie F. Wells.

Mrs. Wells's estate provided \$50,000 to the College of Veterinary Medicine for the scholarship program. Income from the gift will be used to fund the scholarship.

Agronomy post

Dr. John H. Dunn, associate professor of horticulture at UMC, has been named head of the Turfgrass Division of the American Society of Agronomy.

Employment seminar

An employment seminar for college students in the Kansas City area will be held Feb. 17, from 1 to 5 p.m., in Pierson Hall at UMKC.

The seminar—sponsored by the UMKC All Student Association, the Kansas City Regional Council for Higher Education and the Personnel Management Association of Greater Kansas City—will provide job-search and career information.

Speaking at the seminar will be Mr. Frank Brennan, an insurance executive, and Ms. Pat Carlson, who works in public relations and personnel. Both have conducted numerous employment seminars across the country. Students will have an opportunity to talk with the speakers and with some 50 persons representing various career fields.

'Collecting' Tojolabal

Study may fill gaps in Mayan history

(continued from page 1)
computer will go through the texts and sort out the morphemes and words, along with the corresponding gloss information, and will generate a dictionary."

While in Mexico, Dr. Furbee-Losee and her field assistants—Mr. John S. Thomas, Ms. Jackie Wessel and Ms. Jill Brody—will mail their transcriptions to Mr. Pappas, who will enter them into the computer and then mail back a working copy of the dictionary as it is being generated by the computer. In this way, the field team may be able to identify gaps and fill them in before returning to Columbia in May. The computer will also be generating a concordance, through which the researchers will be able to summon a printout of every sentence in which any given word or morpheme appears.

Apart from its importance in helping to work backward toward the proto-language,

Quotable

"There is no longer room for both administrators and for people who do things..."

David W. Ehrenfeld



Dr. Ernest C. Kung, UMC professor of atmospheric sciences, has received a grant of \$125,000 from the National Science Foundation for continuation of his global weather studies to identify basic mechanisms on how meteorological low- and high-pressure areas are maintained. This latest grant brings to \$1,047,000 the total allocated to Dr. Kung by the NSF since 1967.

—UM-related legislation—

State legislators are considering a number of bills which, if approved, would in some way affect the University. Following is a brief survey and status report as of Feb. 2.

[Bills not previously listed]

SB101 (Webster)—Includes in definition of "lobbyist" anyone who attempts to influence decisions regarding making of rules or regulations by any administrative officer or body existing under the constitution or by law. (House Judiciary Committee reported bill out with "do pass" recommendation. Amendment added the words "and authorized by the constitution or law to make rules.")

SB389 (Merrill and Uhlaut)—Establishes a "Missouri Forest Research Council" directed by five-member board appointed by UM Board of Curators. Purpose is to carry out forestry-industry development. Office would be in conjunction with UMC's School of Forestry, Fisheries and Wildlife.

HB268 (Doll)—Requires State of Missouri employees, including those in higher education, to reside in Missouri. Some exceptions are made. (Assigned to House State Institutions and Property Committee. Hearing held but no report.)

[Other Bills]

• SB305 (Uhlaut)—Authorizes Coordinating Board for Higher Education to make a maximum of 25 loans a year for students of medicine or osteopathy. Annual loan maximum of \$6,000 to each student. At least half of students would have to be from rural areas or from towns with populations under 6,000. (Assigned to Senate Education Committee.)

• HB62 (Binger)—Allows certain Missouri armed forces veterans a tuition allowance of \$10 per credit hour for college courses. Maximum of 120 credit hours permitted. (Assigned to House Federal-State Committee. Hearing held but no report.)

• HB64 (Binger)—Prohibits use of any pesticides, herbicides or defoliants in timber-clearing operations. (Assigned to House State Parks, Recreation and Natural Resources Committee.)

• HB293 (Russell-6th Dist.)—Declares the multiflora rose a noxious and dangerous weed harmful to agriculture. Makes it the duty of certain parties, including state and

local government, to help eradicate it and control its spread. (Assigned to House Agriculture Committee.)

• HB296 (Russell-6th Dist.)—Creates three-member Missouri Energy Resources

Additional information on any of these bills and their status in the legislative process can be obtained from Marilyn Selovich, 309 University Hall, Columbia (65201); ph. 314/882-4355.

Authority to coordinate and plan state-funded energy research, development and demonstration project. (Assigned to House Atomic Energy and Industrial Development Commission.)

• HB455 (Burke)—Removes

requirement that persons seeking licenses as physicians and surgeons be U.S. citizens; prohibits barring of students who have attended foreign medical schools from working in Missouri hospitals; requires Missouri schools of medicine to conduct supervised clinical training programs for students from foreign medical schools.

• SB15 (Wiggins)—Adds a student member to the Board of Curators. (Assigned to Senate Education Committee. Hearing held but no report.)

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spec.); asst. prof. (geography spec.);

Greater efficiency seen in peritoneal dialysis

(continued from page 1)
one-time expense of \$5,000 for an artificial kidney. The University research group has also worked on improving hemodialysis to reduce these expenses, Dr. Nolph says. "Our studies have resulted in increased efficiency of each available dialysis machine so time has been reduced from 6 to 10 hours per patient session. This means two patients can be treated for each one and one-half work shifts instead of one patient per shift. Several of our developments have influenced engineers in companies that construct these machines."

But other research developments in recent years may show peritoneal dialysis to be much better for the patients. An in-dwelling catheter in the abdomen has been developed, and it is widely believed that the method may be more efficient in removing the most dangerous solutes.

"There are thousands of unidentified toxins in the blood which dialysis must remove when kidneys have failed," Dr. Nolph says. "Some of the smallest solutes are the best known, such as urea. But we have found and other scientists also suspect that the removal of these tiny solutes may not be as crucial to patient well-being as larger molecules."

Peritoneal dialysis is known to remove larger, potentially toxic solutes at least as effectively as, and perhaps more effectively than, hemodialysis. Blood tests on patients

show they have more stable low levels of larger solutes and they often feel better than hemodialysis patients.

One of Dr. Nolph's most important studies has shown the use of vasodilators enhances the effect of dialysis by increasing both the size and number of capillaries exposed to dialysate in the peritoneal cavity. "Nitroprusside in peritoneal dialysate can increase the rate of dialysis as much as 200 per cent," he says. "Implications of this discovery have focused national attention on our research. The NIH is supporting studies into the biology of this event and the ways it may be incorporated into the development of an improved method of dialysis for patients."

Peritoneal dialysis usually takes about 36 hours one time per week. But an automated system has been developed, and is available, which will allow the process to be done three times a week for approximately 10 hours while patients sleep. Several patients around the country are now using this system at home. The University group has recently trained a patient to use the system in her home. It can potentially cut costs by 50 per cent.

"Eventually, peritoneal dialysis may be adapted to a system that will be quite portable and convenient for the patients," says Dr. Nolph. "All of our work is based on a belief that research, education and patient care are complementary; this work is directly aimed at benefitting the patient."

Spectrum

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Art exhibit

Paintings and various works of art from Asia are on display in UMC's Fine Arts Gallery.

Among the works exhibited are traditional paintings from Rajasthan, Deccan, Kashmir and North West India; painted playing cards and bard scrolls from Bengal; and folk-style paintings from Madhubani and Udaipur. The folk-style paintings are of special interest because most are done by women and have religious and ritual significance for women.

Who's Who

Dr. Sioma Kagan, professor of international business at UMSL, is listed, for the sixth consecutive year, in the most recent edition of *Who's Who in the World*.

Martin Marty

Martin Marty, professor of the history of modern Christianity at the University of Chicago Divinity School, will deliver the first of the Rufus Monroe and Sofie Paine Lectures in Religion on Feb. 16 at UMC.

Dr. Marty will explore the historical backgrounds of contemporary fundamentalism in America. The lecture is to be presented at 7:30 p.m. in the lecture theater of Pickard Hall and will be followed by a reception.

MEI published

The December issue of *Missouri Economic Indicators* is available from the Public Affairs Information Service of UMC's College of Business and Public Administration.

Professorships

Two distinguished visiting professorships have been established at UMKC through an estate trust of the late Francis M. Bernardin.

The professorships will be known as the Francis M. Bernardin Distinguished Visiting Professor in the Humanities and the Francis M. Bernardin Distinguished Visiting Professor in Humanities and Social Sciences. Provisions of the gift state that the annual stipend for each professorship shall be no less than \$3,000 and not more than \$5,000 plus associated fringe benefits.

Holders of the professorships will be named by UMKC's chancellor upon the recommendation of the dean of the College of Arts and Sciences.

Many faculty and staff affected by lobby law

Missouri's lobby law requires registration of any persons, including employees of state government, who attempt to influence legislative action for either direct or indirect personal gain. A very broad law, it conceivably applies to any person who talks to a legislator about pending legislation.

Mr. Jackson Wright, University counsel, has compiled an interpretation of the act defining how University employees may be affected and what is required to comply with it. Since University employees often testify as expert witnesses, Mr. Wright has advice on this point, too. According to his interpretation:

• Registration is required of UM employees who attempt "to influence the taking, passage, amendment, delay or defeat of any legislative action."

• Registration involves (1) the filing of duplicate registrations with the chief clerk of the House and the secretary of the Senate within five days of doing anything to influence legislative action, and (2) the filing of expenditure forms with the same officials

within 10 days of the convening of the session, within 45 days before adjournment and within 30 days after the close of the session.

• University faculty or administrators called by a legislator or a committee to give technical advice or testimony to a committee on a bill in which neither the individual nor the University has an interest should make the following statement at the beginning of testimony: "I am appearing as a witness at the request of [the committee's or legislator's name]. I have no personal interest in this bill, and I am not attempting to influence the taking, passage, amendment, delay or defeat of the legislation. I am here to answer technical questions about the bill and not as a lobbyist, and I have not registered under the Lobbyist Act."

Mr. Wright says violation of the act is a misdemeanor and that the penalty is applied to the individual, not his or her employer. He suggests that University officials discuss potential problems and the advisability of their registration with someone in his office.

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Vacancies

The following administrative, professional and academic vacancies were listed with *Spectrum* as of Feb. 2:

UMKC: Asst. radiation safety officer; computer project mgr.; construction engineer; food service mgr.; info. spec. II; library asst. I; mgr.; Current Budget Operations; producer-director; production mgr.; TV; program adviser; program coordinator; research spec.; sr. fiscal analyst; sr. methods & procedure analyst; sr. research chemist; sr. systems analyst; supervisor, wage & salary; supervisor, data processing; librarian I (Whiteman).

UMC Med Center: Asst. director, Medical Computer Center; asst. director of nursing; fiscal analyst; head nurse; nuclear med. technologist; registered med. technologist; staff nurse (P3); supervisor, emergency medical trainer.

UMC Extension: Dept. head, electrical engineering; asst. prof., family econ. & mgmt. spec. (temp.); dept. head, horticulture; assoc. prof. (accountancy

The fish, as they beat through the thickening mud, knew something, and they drank dark air. The stars, aware of something, shuddered at those growing legs.

(From Thomas McAfee's new book, *The Body and the Body's Guest: New and Selected Poems*, BookMark Press, 5725 Wyandotte, Kansas City, Mo. 64113. © Thomas McAfee.)

Interim dean

Mr. George F. Nickolaus has assumed office as interim dean of the College of Public and Community Services at UMC, succeeding Dr. H. George Frederickson, who resigned to become president of Eastern Washington State College, Cheney.

Mr. Nickolaus, who was associate dean of the college, has been on sabbatical at the University of Georgia, Athens, where he worked with the Cooperative Extension Service in community development training of extension agents. He retains his position as associate professor of regional and community affairs.

Art sale

About 500 works of art from Japan, China, India, Tibet, Nepal and Thailand will be on sale Feb. 25 at UMKC.

The collection, assembled by Marson, Ltd., of Baltimore, will be on display from 10 a.m. to 5 p.m. in the UMKC Art Gallery, Fine Arts Building, 51st and Holmes.

Among the older works will be 18th-century prints, woodcuts, miniature paintings and manuscripts, with Hiroshige, Kuniyoshi and Kunisada among the artists represented. Modern pieces include woodcuts, etchings, lithographs, serigraphs and mezzotints created by such famous figures as Saito, Azechi, Mori, Katsuda and Maki.

Further information may be obtained from UMKC's department of art and art history (816-276-1501).

S & H lectures

UMKC's history department has announced the scheduling of three public lectures, part of the series funded by the S & H Foundation.

The lectures:

"The Character of the Great Collaborators," by Robert A. Rutland, editor of *The Papers of James Madison*—7:30 p.m., Feb. 14, in Room 103, Haag Hall Annex, 52nd and Rockhill Road, UMKC.

"Leadership Style in America: A Bicentennial Appraisal," by Robert Kelley, professor of history at the University of California's Santa Barbara campus—7:30 p.m., Mar. 23, in the Harry S. Truman Library, Independence.

"The Revolutionary Generation's World View," by Lawrence Kaplan, professor of history at Kent State—7:30 p.m., Apr. 18. (Location as yet unannounced.)

Women's center

Ms. Nancy Cinnater has been appointed coordinator of the UMSL Women's Center.

Ms. Cinnater, a native St. Louisan, was previously an administrative assistant to the director of Women's Studies Program at Sarah Lawrence College in New York.

Here and There

Spectrum's calendar carries announcements which are judged to be of possible interest to persons throughout the University system. Anyone wishing to place an announcement in *Spectrum* should write to Calendar, 424 Lewis Hall, Columbia. The next issue of *Spectrum* is scheduled to appear Feb. 25, and the calendar deadline is 1 p.m. on the preceding Friday.

Women's Basketball: UMR vs. Stephens College—Feb. 11; home.

West Coast Art: 1970-76. (exhibit)—through Feb. 16; Barbara Okun Gallery.

John Swanay (lecture)—8:15 p.m., Feb. 11; Stover Aud., UMKC.

This is the Rill Speaking (Studio Theatre production)—7:30 p.m., Feb. 11-12; Studio Theatre, Gentry Hall, UMC; adm. 25¢.

Women's Basketball: UMC vs. Univ. of Ark.—Feb. 12; Fayetteville.

Women's Track: UMC vs. Central Missouri State—Feb. 12; there.

Basketball: UMR vs. Northeast Missouri State—Feb. 12; home.

Basketball: UMC vs. Nebraska—Feb. 12; there.

Basketball: UMKC vs. Rockhurst—Feb. 12; there.

St. Louis Symphony—8:30, Feb. 12; 3 p.m., Feb. 13; Powell Symphony Hall, St. Louis; Georg Semkow, conductor; Isaac Stern, violin. (Program: Haydn, "Symphony"; Prokofiev, "Violin Concerto No. 1"; Debussy, "La Mer.")

Basketball: UMSL vs. Eastern Illinois—Feb. 12; there.

Basketball: UMR vs. Northeast Mo. State—Feb. 12; home.

"**Thirty Miles of Art**"—exhibit of works by persons living within—30 miles of Kansas City; Feb. 12-27; Nelson Gallery; Kansas City.

Jazz Band—8:15 p.m., Feb. 13; Stover Aud., UMKC.

Las Cantigas de Santa Maria—8 p.m., Feb. 13; performed by Waverly Consort (costumes, medieval instruments); Edison Theatre, Washington Univ., St. Louis.

University Collegium Musicum—3 p.m., Feb. 13; Fine Arts Recital Hall, UMC.

"**The Character of the Great Collaborators**"—lecture by Robert A. Rutland; 7:30 p.m., Feb. 14; Rm. 103, Haag Hall Annex, 52nd & Rockhill, UMKC.

Women's Basketball: UMC vs. Northeast Missouri State—Feb. 14; home.

Basketball: UMR vs. Northwest Mo. State—Feb. 14; there.

Holly Stern, violin (faculty recital series)—8:15 p.m., Feb. 14; Fine Arts Recital Hall, UMC.

Basketball: UMKC vs. Culver Stockton—Feb. 15; Swinney Gym.

Philharmonic—8 p.m., Feb. 15; 7:30, Feb. 16; Music Hall, Kansas City; William Steinberg, conductor.

Basketball: UMSL vs. SIU-Edwardsville—Feb. 16; there.

Basketball: UMC vs. Colorado—Feb. 16; home.

Basketball: UMKC vs. Drury—Feb. 17; Municipal Aud.

Sherlock Holmes—8 p.m., Feb. 17, Jesse Auditorium, UMC; tickets \$3.50, \$4.25 & \$5, available at ticket window in UMC's Memorial Union.

Women's Swimming: Big Eight Tourn.—Feb. 17-19; Lawrence.

Harry Morrison, baritone (faculty recital series)—8:15 p.m., Feb. 18; Fine Arts Recital Hall, UMC.

Conservatory Wind Ensemble—8:15 p.m., Feb. 18; Pierson Hall, UMKC.

St. Louis Symphony—1:30, Feb. 18; 8:30, Feb. 19; Powell Symphony Hall, St. Louis; Charles Rosen, piano. (Program: Dvorak, "Carnival Overture"; Stravinsky "Movements for Piano and Orchestra", Chopin, "Variations on 'La ci darem la mano"'; Franck, "Symphony in D Minor.")

Women's Basketball: Tarkio Tournament—Feb. 18-19; Tarkio.

Volker String Quartet—8:15 p.m., Feb. 19; Unitarian Church, Kansas City.

Women's Big Eight Indoor Championships—8 a.m. to 1 p.m., Feb. 19; Hearnes Bldg., UMC.

Basketball: UMKC vs. Chicago State—Feb. 19; Municipal Aud.

Basketball: UMC vs. Kansas State—Feb. 19; home.

Basketball: UMSL vs. Southeast Mo. State—Feb. 19; home.

Volker String Quartet, with John McIntyre, piano—8:15, Feb. 19; All Souls Unitarian Church, 4500 Warwick Blvd., Kansas City; for tickets and further info. write to Central Ticket Office, 5100 Rockhill Rd., Kansas City, Mo. 64111 (ph. 816-276-2705).

Don Pasquale—8 p.m., Feb. 19; performed by Omaha Opera Company; Edison Theatre, Washington Univ., St. Louis.

Basketball: UMR vs. Lincoln—Feb. 19; there.

Chamber Music—8 p.m., Feb. 21; Grace United Methodist Church, 6199 Waterman at Skinker, St. Louis; Charles Rosen, piano. (Program: Schubert & Beethoven.)

George DeFoe, trumpet (faculty recital series)—8:15 p.m., Feb. 21; Fine Arts Recital Hall, UMC.

Sinfonia Alumni Chorus—8:15 p.m., Feb. 21; Stover Aud., UMKC.

Basketball: UMR vs. Drury—Feb. 22; there.

Elly Ameling, soprano (Chancellor's Annual Festival of Music)—8:15 p.m., Feb. 22; Jesse Aud., UMC.

Basketball: UMKC vs. Southwest Baptist—Feb. 22; Municipal Aud.

Basketball: UMSL vs. William Jewell—Feb. 22; home.

Guenther Roth lecturing on Max Weber and his critics—8 p.m., Feb. 22; Memorial Union Aud., UMC.

Philip Pearlstein lecturing on the painter as printmaker—8 p.m., Feb. 22; St. Louis Art Museum.

Mac Davis—8 p.m., Feb. 22; Hearnes Bldg., UMC.

"**Philip Pearlstein: Prints from St. Louis Collections**"—exhibit of 14 prints; Feb. 22-Mar. 16, Gallery 210, UMSL; public reception for Pearlstein, 2 p.m., Feb. 22, Gallery 210.

Basketball: UMC vs. Iowa State—Feb. 23; there.

Maurice Hinson, piano, lecture-recital (Chancellor's Annual Festival of Music)—8:15 p.m., Feb. 23; Fine Arts Recital Hall, UMC.

Vladimir Frumkin (lecture)—4:30 p.m., Feb. 23; Stover Aud., UMKC.

Women's Basketball: AIAW National Tourn.—Mar. 23-26; Minneapolis.

Mad Dog Blues (Studio Theatre production)—7:30 p.m., Feb. 23-26; Studio Theatre, Gentry Hall, UMC; adm. 25¢.

Faculty Horn Ensemble—8:15 p.m., Feb. 24; Stover Aud., UMKC.

St. Louis Symphony—8:30, Feb. 24 & 26; Powell Symphony Hall, St. Louis; Walter Susskind, conductor. (Program: Susskind, "Passacaglia for Timpani and Chamber Orchestra" (world premier); Strauss, "Alpine Symphony.")

The Knight of the Burning Pestle (UMSL University Players)—8 p.m., Feb. 24-27; Benton Hall Theatre, UMSL; \$2.

Steven & Deborah Emery (Joint faculty recital)—8:15 p.m., Feb. 25; Stover Aud., UMKC.

Women's Basketball: MAIAW St. Tourn.—Feb. 25-26; St. Louis.

Women's Track: Mo. Women's Indoor Invitational—Feb. 26; Columbia.

Esterhazy String Quartet with Albert Tipton, flute (Chancellor's Annual Festival of Music)—8:15 p.m., Feb. 26; Fine Arts Recital Hall, UMC.

Gordon MacRae—8 p.m., Feb. 26; Music Hall, Kansas City; for tickets or further info. write to Kansas City Philharmonic, 210 W. 10th, Kansas City, Mo. 64105 (ph. 816-842-9300).

Ricercare (Swiss Renaissance wind ensemble)—8:15, Feb. 26; All Souls Unitarian Church, 4500 Warwick Blvd., Kansas City; for tickets and further info. write to Central Ticket Office, 5100 Rockhill Rd., Kansas City, Mo. 64111 (ph. 816-276-2705).

Basketball: UMR vs. Central Mo. State—Feb. 26; there.

Basketball: Big Eight Playoffs (First Round)—Feb. 26.

Civic Orchestra: Mayor's Concert—8:15 p.m., Feb. 27; Music Hall, Kansas City.

Sunday Pops—3 p.m., Feb. 27; Powell Symphony Hall, St. Louis; Richard Hayman, conductor.

Albert Tipton, flute, & Mary Norris, piano (Chancellor's Annual Festival of Music)—3 p.m., Feb. 27; Fine Arts Recital Hall, UMC.

Basketball: UMSL vs. St. Louis U.—Feb. 28; there.

Basketball: UMR vs. Southwest Mo. State—Feb. 28; home.

Philharmonic—Feb. 28; Music Hall, Kansas City; Gordon MacRae singing Rodgers & Hammerstein.

Philharmonic—8 p.m., Mar. 1; 7:30, Mar. 2; Music Hall, Kansas City; Maurice Peress, conductor. (Program: Schoenberg, "Verklarte Nacht"; Mahler, "Symphony No. 1.")

Barbara Wood, bassoon (faculty recital series)—8:15 p.m., Mar. 2; Fine Arts Recital Hall, UMC.

Philharmonic—Mar. 2; Music Hall, Kansas City. (Program: Schoenberg's "Verklarte Nacht"; Mahler's "Symphony No. 1.")