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## Washington University Record, July 1, 1982

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# Washington University Record

Vol. 7, No. 34

July 1, 1982

## WU, Monsanto sign \$23.5 million research agreement

On June 3 WU and the Monsanto Company of St. Louis signed a \$23.5 million, five-year agreement to collaborate in biomedical research. In addition to the size of the contract — one of the largest ever agreed upon by a university and a corporation — its far-reaching implications have inspired the curiosity of the nation's media.

*New York Times* education writer Edward Fiske, speculating on the implications for WU, wrote, "Similar agreements by Harvard, the Massachusetts Institute of Technology, and other major universities have led to controversy over potential conflicts of interest, and Monsanto and Washington University took pains to emphasize that steps had been taken to minimize such possibilities."

"Everything is carefully designed to enable the University to be true to its fundamental purposes," Howard Schneiderman, Monsanto's senior vice president for research and development, told Fiske.

The major terms of the contract call for an eight-person advisory committee composed of four representatives from each institution to solicit research proposals from the WU faculty-at-large. The committee will review and approve appropriate proposals, distribute funding and act as a liaison between the University and Monsanto.

Under the terms, Monsanto would hold the exclusive license rights to use any innovations developed by University researchers. Patent rights would remain the property of WU, and all royalties will go to the University — not individual researchers — for the support of its educational and research programs.

The research being funded falls into six areas: biochemistry, immunology, pharmacology, pathology, medicine and genetics. The common denominator is

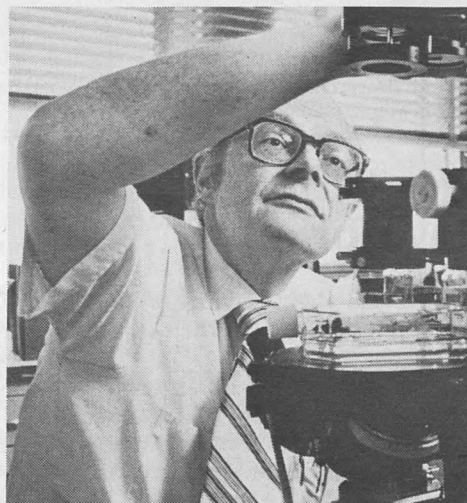
that the research must intersect the strengths and interests of both institutions and that it must involve cell communications (modifications in cell behavior caused by proteins and peptides).

David Kipnis, chairman of the new advisory committee and Busch professor and head of the medical school's Department of Internal Medicine, said the research will involve study of "a wide variety of diseases for which there isn't a clear-cut therapy." Such diseases, he said, might include allergies, cancer, rheumatoid arthritis, neurological diseases and hypertension.

The interest of Monsanto in pursuing biomedical research is no surprise to insiders. In a *Wall Street Journal* article, reporter Dale Singer wrote, "The giant chemical company previously had expressed an interest in expanding its role in health care." Monsanto already manufactures large quantities of aspirin and acetaminophen — the active ingredient in Tylenol.

Both institutions have engaged in similar agreements in the past. Monsanto has been funding research at Harvard since 1974 on the molecular basis of organ development. Last September, WU began a collaborative agreement with Mallinckrodt Inc. — a St. Louis-based chemical and pharmaceutical maker — which is funding \$3.9 million worth of research in the area of hybridoma antibodies. And WU and Monsanto are now operating under a \$1.5 million agreement to fund similar hybridoma research.

In addition to Kipnis, the three University members of the advisory committee will be Luis Glaser (head of the Department of Biological Chemistry), Paul Lacy (Mallinckrodt Professor of Pathology and head of the Department of Pathology), and Joseph Davie (head



Luis Glaser

of the Department of Microbiology and Immunology).

For Monsanto, the four advisory committee members will be Louis Fernandez (vice chairman of Monsanto), Schneiderman, G. Edward Paget (director, biomedical program), and David Tiemeier (science fellow). Any action to approve or disapprove funding, to set funding amounts or to discontinue funding will come about by a decision of this committee.

The advisory committee will allocate 30 percent of its funding to exploratory or fundamental research in proteins and peptides. The other 70 percent will go toward the support of more applied "specialty" projects for which there is significant public need and potential commercial utility in terms of technologies or products.

The University faculty members will be at liberty to publish the results of any research they do under the Monsanto funding. Monsanto, however, will exercise the right of prior review of such material if it contains potentially patentable technical developments. If so, Monsanto can request a short delay of submission for publication or other public disclosure in order to begin the patent process. Such review is necessary because many foreign patent laws require the filing of patent applications before public disclosure of inventions.

Monsanto will pay for and carry out the entire patenting process. If Monsanto does not elect to license a patent, the University is free to license such patents to others.

The contract also contains important  
*continued on p. 3*

## Libraries acquire Hoopes collection of Orientalia from curator's widow

A collection of books on Chinese and Japanese art, history, languages and literature and Japanese arms and armours from the library of the late Thomas T. Hoopes, former curator of the St. Louis Art Museum, has been donated to the WU Libraries by his widow, Catherine S. Hoopes, of St. Louis.

The donation contains a noteworthy collection of more than 300 books about Japanese arms and armours, among them, H. Sugawara's *Koto Meijin Daizen*, an encyclopedia of sword ornaments and decorations, published in Japan in 1791. The arms and armours book collection also contains an encyclopedia detailing the family trees of Japanese swordsmiths by W. Hawley, and Lumir Jisl's *Swords of the Samurai: The Splendours of Japanese Sword Furniture* (1967). Sword furniture, says Sachiko K. Morrell, acting WU East Asian librarian, is furniture decorated with swordguards and other pieces of armour made after the wearing of the swords in public in Japan was prohibited by Imperial edict in the late 19th century.

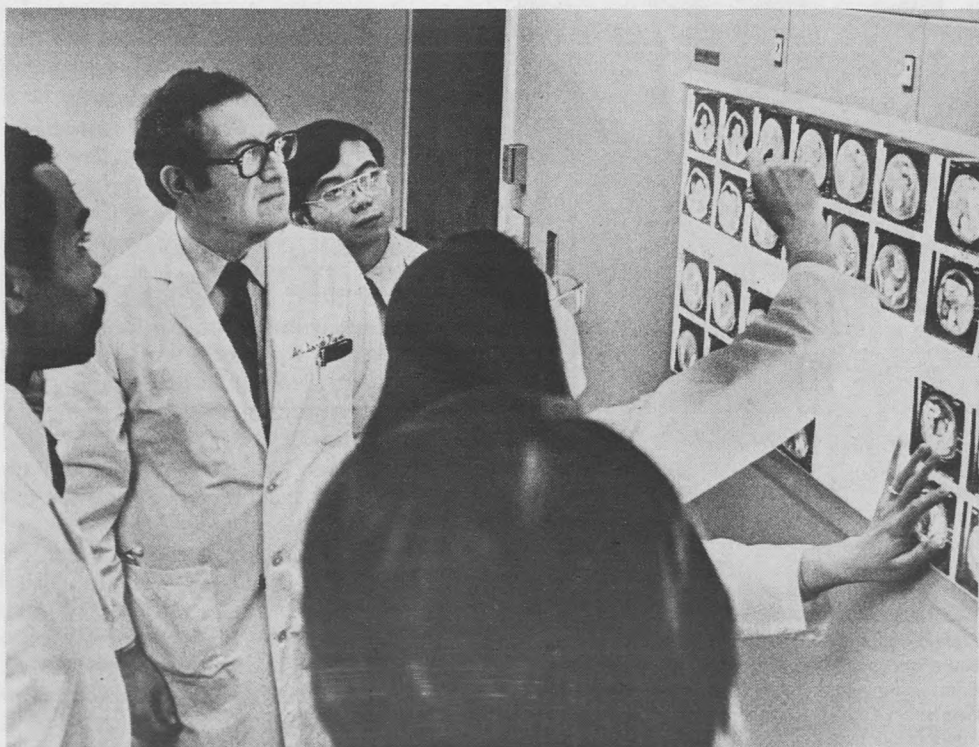
Other books of interest are a Chinese language dictionary published in 1806, a book of Tibetan grammar by H. A. Jaschke, published in 1954, several books on Chinese and Japanese history and literature and books detailing aspects of Chinese and Japanese art.

The volumes are in Japanese, Chinese, German, French and English, Morrell said, and the older books are printed on doubleleaf rice paper.

Before coming to St. Louis in 1936, Thomas T. Hoopes conducted research in

Japan on behalf of the Metropolitan Museum of New York City as assistant curator of the Arms and Armours section. Hoopes was curator of the St. Louis Art Museum from 1936 until his retirement in 1964. He died in 1981. His wife, Catherine Hoopes, is a WU alumna.

The collection will be housed according to subject in the East Asian Library, the Art and Architecture Library and Special Collections.



David M. Kipnis with students.



同像  
藏不詳  
國史館  
所藏

This portrait of Sugawara no Michizane, a Japanese political leader, scholar and literary figure of the middle Heian period (897-1185 A.D.) is from an untitled encyclopedia of Japanese culture compiled by K. Azuma in 1902.





(Left to right) Hallowell Davis, Linda Turpin and Shirley Hirsh review results of a brainstem electrical response audiometry test, developed by Davis, to assess the hearing of young infants.

## WU pioneers hearing test for infants as young as newborns

Until recently, accurate assessment of the hearing of an infant or a very young child was extremely difficult, if not impossible. A pioneering facility at the WU Medical Center now tests infants as young as newborns for the low, middle and high frequencies that occur in the range of sound used in speech.

The test, called brainstem electrical response audiometry, was developed in 1976 by Hallowell Davis, WU professor emeritus of physiology and director of research emeritus at the Central Institute for the Deaf, and his research assistant, Shirley Hirsh.

Working with other researchers from the Central Institute for the Deaf and the WU Department of Speech and Hearing, they established a facility at St. Louis Children's Hospital that was the first in the midwest and one of the first nationwide to test the hearing of infants. Using an averaging computer, brief electrical responses to sounds originating in the region of the brainstem are analyzed, and the results used to assess how well the auditory system is functioning. This data, together with tympanometry, a test of middle-ear function, and any behavioral information available, make it possible to identify a hearing impairment and begin rehabilitation with a hearing aid and special education. Parents, who bring their children to the facility from throughout the midwest, are

counseled about services in their area, and referred back to their own physician or agency.

Most of the children tested are under 3 years of age. They are referred to the service for a variety of reasons: delayed language development, inconsistent response to sound or a high risk of hearing impairment from other causes. Older children may be tested because multiple handicaps, mental retardation, hyperactivity, or emotional disturbance render them untestable by behavioral audiometry. Sedation, possible in a hospital setting, allows a reliable assessment of even difficult-to-test children. Many such tests are conducted at the request of state or local social agencies, and in six years of service, well over 1,000 children have been examined.

Brainstem electrical response audiometry continues to be evaluated and refined with ongoing research. The research team includes Davis; Hirsh; Gerald Popelka, associate professor of audiology in speech and hearing; Kenneth Faw, assistant professor of otolaryngology; and Linda Turpin and Mary Pearce of the Central Institute for the Deaf.

## WU changes carriers; coverage unchanged

As of July 1, 1982, the University's Life Insurance Plan transferred from the Equitable Life Assurance Society to the Teachers Insurance and Annuity Association.

There were no changes in the provisions of the plan, and there was no interruption of coverage for any insured employee. The existing employee contributions remain in effect.

Insured employees are not required to re-enroll with the new carrier, and all beneficiary designations and assignments remain in effect.

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## Windegger Foundation to provide scholarships to WU, St. Louis U.

A multi-million dollar Jeanette L. Windegger Educational Foundation has been established by the St. Louis woman to provide scholarships at WU and St. Louis University for residents of Missouri and of the St. Louis metropolitan area east of the Mississippi.

In making the announcement, a spokesman for the foundation said, "It is Mrs. Windegger's hope that the scholarships will encourage the most highly qualified and most promising young people to seek their education in the St. Louis community and that the same young people will thereafter remain in and contribute to the economic and cultural growth and well-being of the community."

Income from the foundation will be divided equally between the two private universities. Awards are to be made for one academic year but can be renewed to

deserving students as determined by each school's scholarship committee.

Character, leadership, scholastic achievement and financial need are to be given relatively equal weight in the selection of Jeanette L. Windegger Scholarship recipients.

The establishment of the foundation marks Mrs. Windegger's first gift to WU. During the past decade, her contributions to the Paul C. Reinert S.J. Endowed Scholarship Fund and the Jeanette L. Windegger Library in the School of Social Service have made her an Honorary Founder in the Associates of the President at St. Louis University. Honorary Founders are those who have contributed more than \$100,000 to St. Louis University.

The Jeanette L. Windegger Pavillion at Tilles Park in West County was made possible in 1978 through her generosity.

## Host families needed for international students

Each year, more than 600 international students enroll at WU. One of the best ways they can become acquainted with Americans and their culture is through WU's Host Family Program.

The Host Family Committee is looking for WU families who will "adopt" a student — invite them for dinner occasionally, include them in holiday celebrations and perhaps show them around St. Louis. In the past, only 35 to 40 students a year have been placed through the program because of a shortage of volunteering families.

"Some of the students are undergraduates but most are graduate students studying in technical disciplines not available in their home countries," said William S. Stone, director of the In-

ternational Office. "Most of these young men and women have not been to the United States before arriving in St. Louis. They are eager to make friends, learn about our country, as well as study in their fields."

Stone added that the American families involved in this program can "learn more about another country than they would in *National Geographic*."

"Families can gain more understanding of other areas of our world and form friendships that will last longer than the year or years the students are enrolled at WU," Stone said.

Families who would like more information about the program should call Diane Hasty at 889-5991 or Jo Ruckdashel at 527-5601.

## Classes in MUSIC, SAS, DCF offered this month

The WU Computing Facilities will sponsor a series of free, short courses during July. The courses are:

"Introduction to MUSIC," the primary system at WU for interactive computing, including programming and file management capacities, July 6-9, noon to 1 p.m. at Cupples I.

"Introduction SAS" (Statistical Analysis System) July 12-16, noon to 1 p.m. at Cupples I.

"DCF" (Document Composition Facility) a word processing program oriented toward the production of large documents, July 1, noon to 1 p.m., for orientation and July 6, 8, 13 and 15, 1 to 3 p.m., for training; or July 15, noon to 1 p.m., for orientation, and July 19-22, noon to 1 p.m. for training. Orientation sessions will be in Brown Hall and training sessions in Lopata Hall.

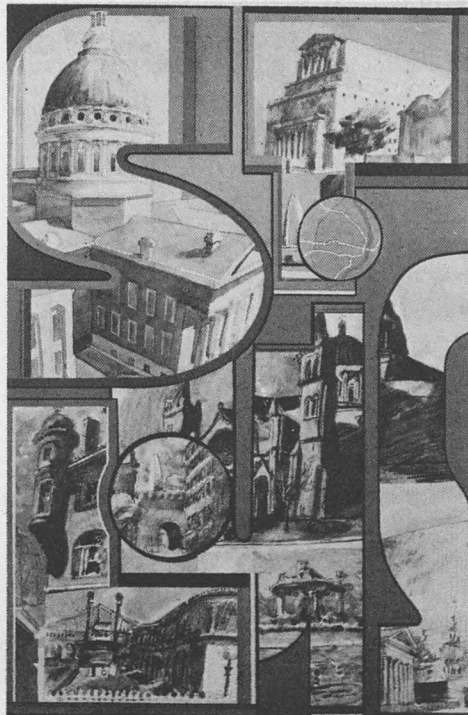
The courses are open to anyone. Call the Computing Facilities at 889-5301 to register.

## Art student wins Women's Society scholarship

Paul A. Breuer, of St. Louis County, has received a full two-year scholarship to complete his studies at WU.

The scholarship, awarded annually since 1975 by the Women's Society of WU, is given to an outstanding student finishing work at the St. Louis Community College (a two-year junior college) who is not only a scholar, but also a superior achiever outside the classroom.

Breuer, who will be a junior next fall, will study for a BFA with a major in painting and a minor in printmaking. Breuer was a student at the Florissant Valley campus of the St. Louis Community College, where he maintained a 3.95 scholastic average.



Professor of art William Kohn's poster depicting St. Louis won a \$1,000 first prize from the St. Louis Commission of the Arts and Humanities and the First Street Forum. Kohn's poster, a collage of watercolors of St. Louis landmarks, as well as eight other posters in the competition, are on display at the Forum, 717 N. First St., through July 11.





Herb Weitman captures a child's fascination with sculpture by Alexander Calder in this photograph, one of many in an exhibition on display at the Mitchell Museum, Mount Vernon, Ill., through July 11. Weitman, head of WU's Photographic Services and WU adjunct professor of fine arts, met the late artist in 1964 when he came to WU for the installation of his sculpture, "Five Rudders." Weitman also photographed the artist in his New England studio, at a retrospective exhibition of the artist's work at the Guggenheim Museum (the location of the photograph above), and at a Calder show at the WU Gallery of Art in the mid-1960s. Viewing hours at the Mitchell are Tuesday through Sunday from 1-5 p.m.

## Campus Notes

Nicholas J. Demerath, professor emeritus of sociology, was invited to attend the 25th General Conference of the International Federation of Agricultural Producers in London, June 14-19. The federation is a non-governmental organization composed of more than 100 unions, associations, cooperatives, and groups of farmers, growers and ranchers from about 60 countries. Demerath is secretary-treasurer of the Illinois chapter of the American Agriculture Movement (AAM) and international liaison officer for the International AAM.

David Felix, professor of economics, will deliver a paper at the Eighth International Economic History Congress that will convene August 6-21 in Budapest. His topic will be "Interrelations Between Consumption, Economic Growth and Income Distribution in Latin America Since 1800: A Comparative Perspective."

Jerry Johnson, professor and Elias Michael Director of the Program in Occupational Therapy, was invited to serve as keynote speaker of the Special Interest Sections of the 62nd annual conference in May of the American Occupational Therapy Association in Philadelphia. Her address was titled "Personal Growth and Professional Responsibility." Program instructors Dixie H. Sleight and Carol W. Niman gave a presentation on "Feeding: Down's Syndrome Infants and Toddlers."

Rita E. Numerof, WU assistant professor of social work, recently presented a paper on the relationship between management practices and clinical needs of nursing home residents and their families to the American Orthopsychiatric Association's 59th Annual Meeting in San Francisco on April 1. Numerof's latest book, *The Practice of Management for Health Care Professionals*, was published in April by AMACOM, a division of American Management Associations. On April 29 and 30, Numerof conducted a seminar on professionalizing the health care business for the Missouri Association of Nursing Service Administrators (MANSA) in Lake of the Ozarks, Mo. In early June, she addressed the Indiana Health Congress on health management issues in Indianapolis.

## Mathematician Haimo dies; 35 years on WU faculty

Franklin Haimo, professor of mathematics at WU, died June 3 at Barnes Hospital after a short illness.

Haimo, 62 years old; taught mathematics at WU since 1947. In recent years, he also participated in seminars about Swedish current events for the Scandinavian Studies Area.

He earned the BA in 1941 from Reed College in Portland, Ore., and MA and PhD degrees from Harvard University in 1942 and 1947, respectively.

He was a member of the Institute for Advanced Study at Princeton in the 1972-73 academic year and returned there each summer for research as a visiting fellow.

Robert A. Rouse, associate director of the Center for the Study of Data Processing, delivered a keynote address to the FORUM of the Missouri Computer Facilitating Committee titled, "The Evolution of Computing Education." The FORUM was held in late April at the University of Missouri-Columbia. Robert J. Benson, associate vice chancellor and director of WU's Computing Facilities, is the 1982 chairman of the Computer Facilitating Committee, a consortium of institutions of higher education in Missouri.

Susan Waugh, visiting associate professor in women's studies and English, has been chosen as a participant in the "Reconstructing American Literature" project at Yale University this summer.

James A. Wells has been appointed to the staff of the Yale School of Medicine as a postdoctoral fellow in epidemiology and public health. Wells will be on leave from his position as assistant professor of sociology. He will be pursuing his research on psychosocial stress and disease.

Burton M. Wheeler, WU professor of English and religious studies, is serving on an 18-member panel selected by the Association of American Medical Colleges to make a three-year study of the general professional education of the physician — the eight years that include college preparation and medical school. He and his fellow panelists were recently asked to comment on a document that focused on clinical education, biomedical science education and college preparation.

W. Michael Wolverton, a graduate student in the Sever Institute of Technology, presented a paper entitled "Correlation of NTD-Silicon Rod and Slice Resistivity" at the Fourth International Neutron Transmutation Doping Conference on June 2 at the National Bureau of Standards in Gaithersburg, Md. Wolverton is pursuing research toward an MS degree in mechanical engineering. He is an employee of the Monsanto Division at St. Peters, Mo.

## Faculty receive promotions

The following faculty members received promotions.

### Hilltop Campus (As of July 1, 1982)

Seth A. Carlin, to associate professor of music; Ghislaine Crozaz, to professor of earth and planetary sciences; Wallace B. Diboll, Jr., to professor of mechanical engineering; Dorothy J. Echols, to professor of earth and planetary sciences; A. Maynard Engebretson, to associate professor of electrical engineering in the Department of Speech and Hearing in the Faculty of Arts and Sciences;

Iain Fraser, to associate professor of architecture; Ursula W. Goodenough, to professor of biology; Babu Joseph, to associate professor of chemical engineering; Douglas Bruce La Pierre, to professor of law; Joseph F. Loewenstein, to assistant professor of English; Hylarie McMahon, to professor of art; Charles R. McManis, to professor of law; Laurence H. Meyer, to professor of economics; David P. Pascoe, to associate professor of audiology in the Department of Speech and Hearing in the Faculty of Arts and Sciences; George I. Zahalak, to professor of mechanical engineering.

### School of Dental Medicine (As of May 1, 1982)

Marc Abrams, to associate professor (part-time) of oral and maxillofacial surgery; Richard W. Brand, to professor of anatomy in biomedical sciences; William D. Gay, to associate professor of maxillofacial prosthetics; Gregory Hoeltzel, to associate professor (part-time) of orthodontics; Natalie L. Simmons, to assistant professor (part-time) of dental education; Monica Strong, to associate professor (part-time) of dental sciences; Herman Turner, to associate professor (part-time) of oral and maxillofacial surgery.

### School of Medicine (As of June 15, 1982)

Charles Abramson, to associate professor of clinical radiology; Parveen Ahmed, to clinical assistant professor of pathology; Bernardo G. Aleksander, to assistant professor of psychiatry; Hans Dieter Ambos, to research assistant professor of medicine (cardiology); Barbara Ann Araneo, to assistant professor of pathology; Thomas M. Aune, to assistant professor of pathology; Stephen J. Barenkamp, to assistant professor of pediatrics; Wagih Abdel Bari, to associate professor of pathology (visiting staff); Jack Barrow, to associate professor of clinical medicine;

Eugene A. Bauer, to professor of medicine (dermatology); Daniel R. Biello, to associate professor of radiology; William G. Bowen, to assistant professor of clinical medicine; Thomas J. Braciale, to associate professor of pathology; Max H. Burgdorf, to assistant professor of pediatrics; William J. Catalona, to professor of surgery (urology); Dien-Ming Ben Chen, to assistant professor of cancer biology in radiology; Theodore J. Cicero, to professor of neurobiology; Howard Brent Clark, to assistant professor of pathology;

David B. Clifford, to assistant professor of neurology; James M. Corry, to assistant professor of clinical pediatrics; James P. Crane, to associate professor of obstetrics and gynecology; Jack L. Croughan, to associate professor of psychiatry; Arnold Dankner, to associate professor of clinical medicine; Sheldon L. Davis, to assistant professor of clinical otolaryngology; Katherine DeSchryver, to associate professor of pathology; Charles H. Dougherty, to assistant professor of clinical pediatrics;

Jeffrey T. Fierstein, to assistant professor of clinical otolaryngology; Michael J. Gast, to assistant professor of ob-

## Monsanto—

*continued from p. 1*

provisions for cooperative efforts between Monsanto and WU. Monsanto scientists and technicians will spend time in University laboratories learning new techniques and information, and University scientists will have access to Monsanto facilities (such as isolation and tissue culture facilities) and materials.

The schedule for funding is indexed to 1982 dollar values, so that funding will increase in proportion to inflation.

In the third year of the agreement, and every two years thereafter, Monsanto and the University will have an independent scientific review panel made up of distinguished scientists (not connected with either institution) review the scientific merit of the projects being funded and the impact of the program on both participating institutions. In the third year, it will also be determined if it is in the best interests of both parties to continue funding beyond the presently agreed upon five years.

stetrics and gynecology; Louis A. Gilula, to professor of radiology; Marie H. Greider, to professor of pathology; William M. Hart, Jr., to associate professor of ophthalmology; Boyd K. Hartman, to professor of neurobiology; Rexford L. Hill III, to associate professor of computer applications in radiology;

Barbel Holtmann, to associate professor of surgery (plastic and reconstructive surgery); Keith A. Hruska, to associate professor of medicine; Owen S. Kantor, to associate professor of clinical medicine; Jack Kayes, to associate professor of clinical ophthalmology; Gerald Kessler, to professor of pathology; Michael R. Kilbourn, to assistant professor of radiation sciences in radiology; Terence G. Klingele, to associate professor of clinical ophthalmology; Phillip E. Korenblat, to associate professor of clinical medicine; Frederick T. Kraus, to professor of pathology (visiting staff); Susan L. Wilson Krechel, to associate professor of anesthesiology;

Ralph F. Kuhlman, to assistant professor of clinical medicine; Anthony Kulczycki, Jr., to associate professor of medicine; Jack H. Ladenson, to associate professor of clinical chemistry in medicine; Joseph K. T. Lee, to associate professor of radiology; Joseph Levitt, to associate professor of clinical medicine; Stanley B. Lyss, to assistant professor of clinical pediatrics; Richard P. MacDermott, to associate professor of medicine; James E. Marks, to professor of radiology;

Jeffrey L. Marsh, to associate professor of surgery (plastic and reconstructive surgery); Philip L. Martin, to assistant professor of clinical otolaryngology; Jay M. McDonald, to professor of pathology and professor of medicine; Daniel W. McKeel, to associate professor of pathology; Edward J. Miller, to associate pro-

*continued on p. 4* **3**



# Calendar

July

## Special Events

### Sunday, July 4

8:30 p.m. 49th Annual Fireworks Display, sponsored by the Clayton Firemen and Policemen Retirement Association. WU Francis Field. Tickets are \$3 at the gate or in advance. Call 727-8100.

### Monday, July 19

Tenth WU Summer Dance Institute, a nationally renowned, intensive dance program for professional dancers, instructors, therapists and students. Through Aug. 7. For information and to enroll, call 889-6720 or 889-5858.

## Music

### Tuesday, July 27

8 p.m. Nightmusic Concert with Paul Kasica, flute, Orchestra of St. Louis, and instructor of music, CASA, and Don Hirsh, guitar, instructor of music, Webster College. Gargoyle, Mallinckrodt Center. No charge.

### Wednesday, July 1

8 p.m. Composer's Concert featuring Bill Patterson, graduate student in music composition. Graham Chapel. No charge.

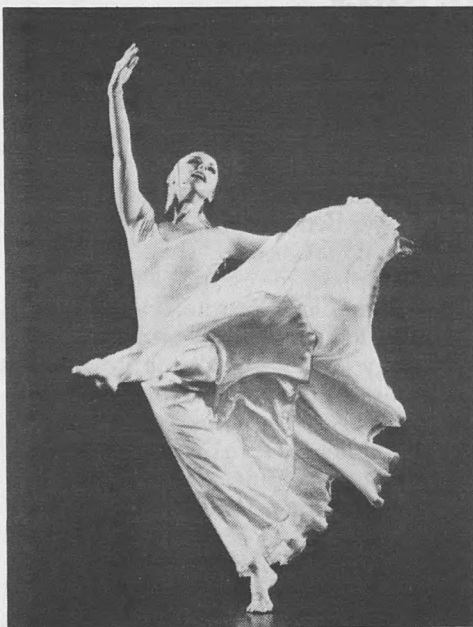
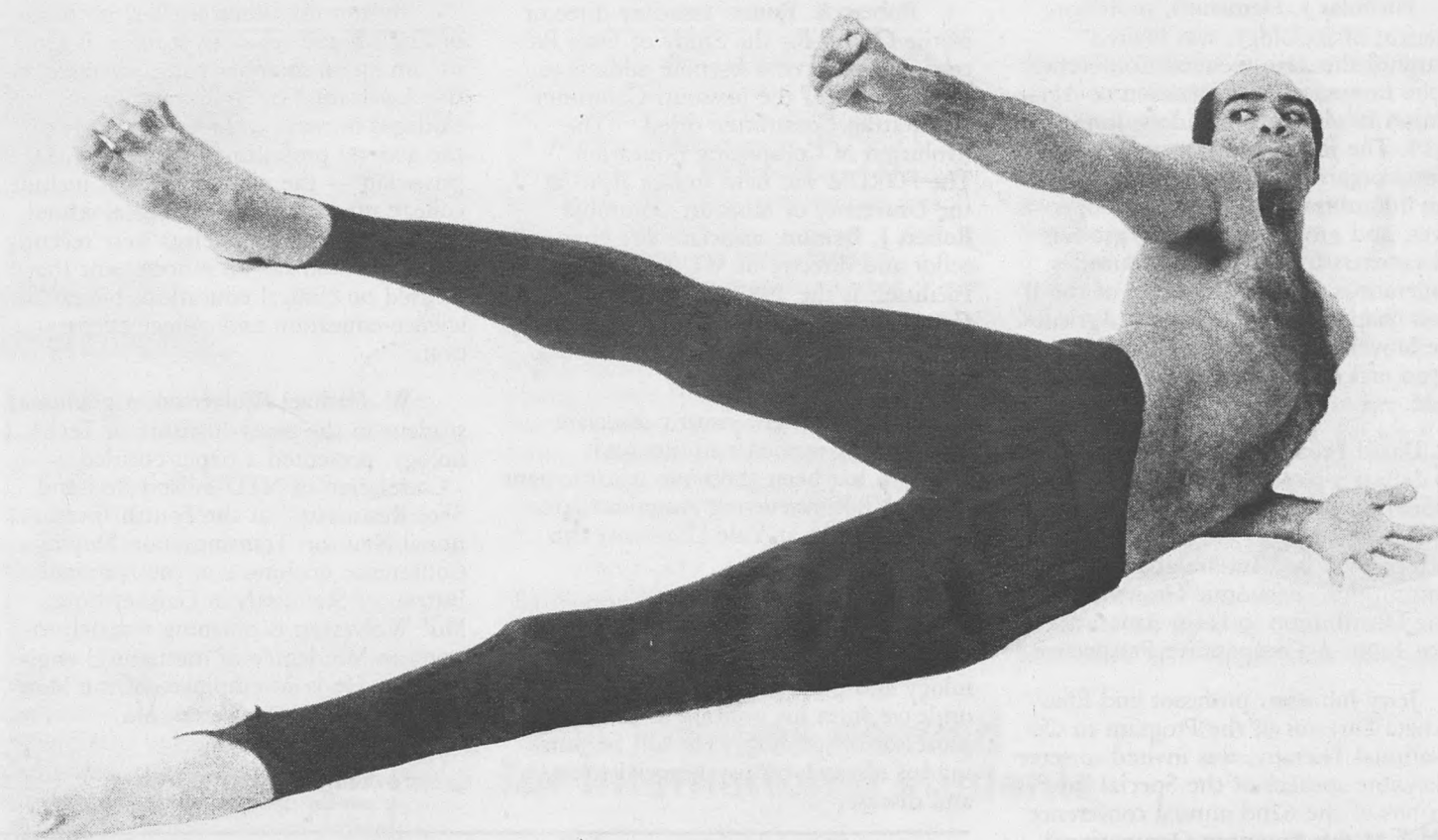
## Exhibitions

"Core Show," a collection of drawings and designs by students in the School of Fine Arts. Bixby Hall Gallery. Hours are 10 a.m.-4 p.m. weekdays. Closed weekends. Through Aug. 28.

"Fools Are My Theme, Let Satire Be My Song," a collection of classical satire from Aesop and Aristophanes to Mark Twain and Kurt Vonnegut. Includes a manuscript letter written by Mark Twain and a rare edition of Voltaire's *Candide*. Special Collections, fifth floor, Olin Library. 8:30 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. Through Aug. 31.

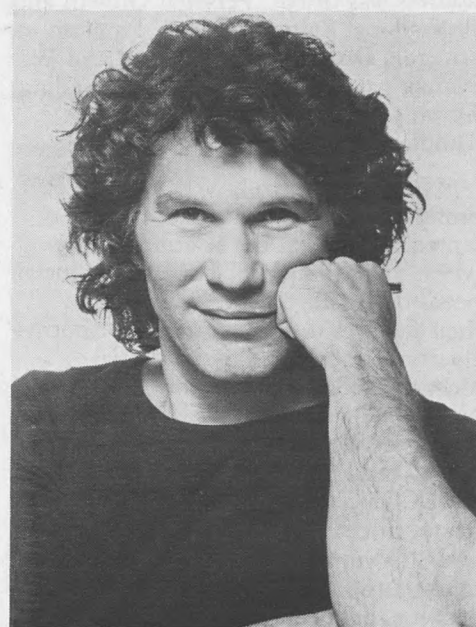
## Calendar Deadline

The deadline to submit items for the August calendar of the *WU Record* is July 22. 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 name and identification and the title of the event. Those submitting items, please note name and telephone number. Address items to King McElroy, calendar editor, Box 1142.



## Dance, dance, dance

The WU Summer Dance Institute, which marks its tenth anniversary this summer as a nationally renowned, intensive dance program with a wide breadth of courses, will be held July 19 to August 7. The program is designed for professional dancers, instructors, therapists and students with a serious interest in dance. Instructors include performers and choreographers Clay Taliaferro (above), Phyllis Lamhut (left) and Dan Wagoner. The institute, headed by dance division director Annelise Mertz, draws students from throughout the country and Europe. For enrollment information, call 889-6720 or 889-5858.



## Promotions — continued from p. 3

fessor of clinical medicine; James G. Miller, to research associate professor of medicine; J. Philip Miller, to associate professor of biostatistics in preventive medicine;

Homer E. Nash, Jr., to assistant professor of clinical pediatrics; David W. Ortbals, to assistant professor of clinical medicine; Earni S. Pal, to assistant professor of clinical psychiatry; Curtis A. Parvin, to assistant professor of pathology; Alan L. Pearlman, to professor of physiology and biophysics; Supote Phipatanakul, to assistant professor of clinical otolaryngology; Miljenko V. Pilepich, to associate professor of radiology; Daniel E. Potts, to assistant professor of clinical medicine; William J. Powers, to assistant professor of neurology;

Vincent J. Proskey, to assistant professor of clinical medicine; Dabeeru C. Rao, to professor of biostatistics in pre-

ventive medicine, professor of biostatistics in psychiatry and professor of biostatistics in genetics; Devineni V. Rao, to assistant professor of radiology;

Samuel H. Rosen, to assistant professor of clinical psychiatry; Harry D. Rosenbaum, to associate professor of clinical ophthalmology; Jerry L. Rosenblum, to assistant professor of pediatrics; Samuel E. Schechter, to assistant professor of clinical medicine; Daniel P. Schuster, to assistant professor of medicine; Gary D. Shackelford, to associate professor of radiology in pediatrics and professor of radiology;

Warren G. Sherman, to associate professor of clinical pediatrics; Reed E. Simpson, to assistant professor of clinical psychiatry; Malcolm M. Slaughter, to research assistant professor of ophthalmology; Carl H. Smith, to professor of pediatrics and professor of pathology;

Richard S. Sohn, to associate professor of clinical neurology; Ross B. Sommer, to associate professor of clinical medicine; Philip D. Stahl, to professor of physiology and biophysics;

Paul M. Stein, to assistant professor of clinical medicine; Roger K. Stoltzman, to assistant professor of psychiatry; Ronald C. Strickler, to associate professor of obstetrics and gynecology; George P. Stricklin, to assistant professor of medicine (dermatology); Brian K. Suarez, to associate professor of genetics in psychiatry and associate professor of genetics; Steven L. Teitelbaum, to professor of pathology; J. Allen Thiel, to associate professor of clinical medicine; Lloyd E. Thompson, to assistant professor of clinical otolaryngology;

William G. Totty, to assistant professor of radiology; Michele M. Van Eerdewegh, to assistant professor of psy-

chiatry; Bruce J. Walz, to associate professor of radiology; Todd H. Wasserman, to associate professor of radiology; Gary J. Weil, to assistant professor of medicine; Stuart Weiss, to professor of clinical neurology; Mark B. Willard, to associate professor of neurobiology and associate professor of biological chemistry; Robert C. Wray, Jr., to professor of surgery (plastic and reconstructive surgery).

## Gallery of Art closed for renovation

The WU Gallery of Art, Steinberg Hall, is closed for renovation, according to Gerald D. Bolas, director. The date of its reopening has not yet been determined, but it will coincide with the inauguration of a major exhibition.

Indovina