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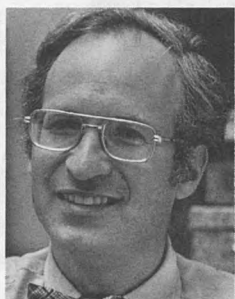
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# W.U. RECORD



David H. Alpers



C. David Gutsche



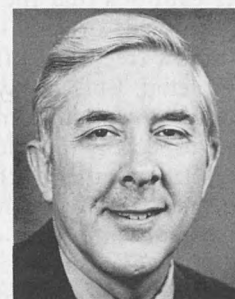
Derek M. Hirst



Paul M. Lützel



Curtis A. Price



Richard Ruland

## WU Faculty Receive State's 6 Guggenheims

Six WU faculty members have received fellowships from the John Simon Guggenheim Memorial Foundation. The six awards, the largest number presented to WU faculty in recent years, constitute all the Fellowships granted this year in the state of Missouri.

The recipients are: David H. Alpers, professor of medicine, WU School of Medicine; C. David Gutsche, professor of chemistry; Derek M. Hirst, associate professor of history; Paul Michael Lützel, associate professor of German; Curtis A. Price, associate professor of music; and Richard Ruland, professor of English.

The fellowships are awarded on the basis of demonstrated accomplishment in the past and strong promise for the future in all of science, scholarship and the arts. A total of \$5,099,000 was awarded to 288 scholars, scientists and artists chosen from 3,017 applicants to the Foundation's 57th annual competition. The average fellowship is \$16,000.

Alpers is head of the Division of Gastroenterology at the

WU School of Medicine. A specialist in the study of the stomach and intestinal tract, he is currently conducting research under a grant from the National Institutes of Health on intestinal protein metabolism and function. He will use the Guggenheim Fellowship to study post-translational processing of secretory proteins.

Gutsche, a member of the WU faculty since 1947, served as chairman of the Department of Chemistry from 1970 to 1976. During his last year as chairman, he received a faculty award from the WU Alumni Association for his outstanding commitment to teaching. A specialist in organic chemistry, Gutsche will use the fellowship to study the synthesis, characterization and testing of enzyme models.

Recognized as one of the leading authorities on political conflict in 17th-century England, Hirst will use his Guggenheim Fellowship to research and write a book on the role of the major-generals in Cromwellian England. Another volume by

*continued on p. 3*

## Go-Ahead Given for Design of New Sports-Recreation Complex

The executive committee of the WU Board of Trustees approved a proposal at its April 9 meeting to proceed with the preliminary design of a new sports and recreation complex.

The sports and recreation complex will be designed and planned for students, faculty and staff use and will include three regulation-size basketball courts, handball, racquetball and squash courts and a new swimming pool. The basketball courts will also be available for indoor tennis.

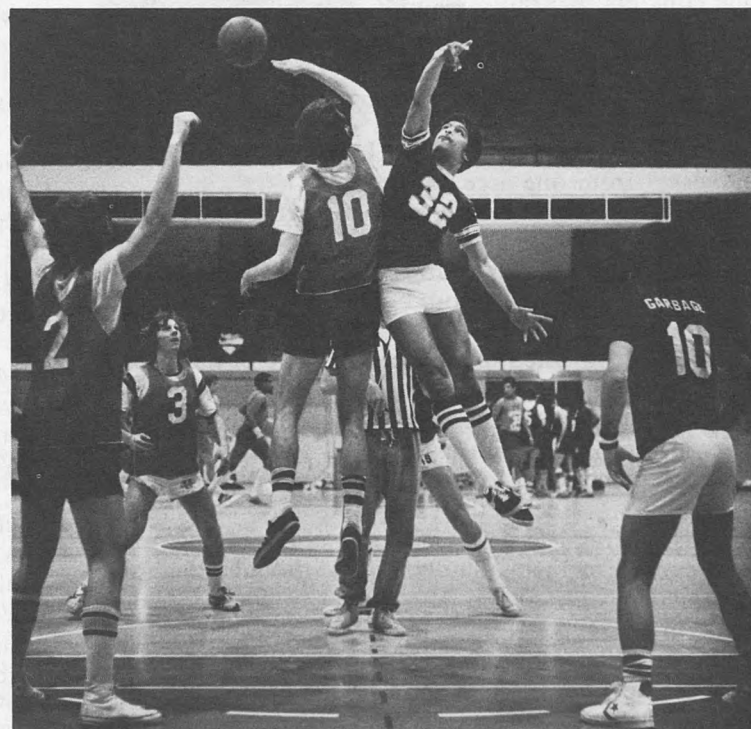
The architectural firm chosen to prepare the preliminary plans also will develop plans to improve Francis Field House and Francis Field. These plans will include renovation and new construction of Francis Field stands.

According to Joe F. Evans, associate vice chancellor for business affairs, the decision to proceed on the athletic expansion program reflects the University's commitment to establish more activity-related programs for students.

Evans said that funds are available now to begin the architectural studies and to complete a portion of the project.

Planning for the complex began in 1978, when the architectural firm of Hastings and Chivetta of St. Louis submitted a proposal recommending significant improvements of sports and recreational facilities at WU. A year

*continued on p. 4*



WU intramural basketball will be one beneficiary of the new sports complex.



## High Oil Content of Unusual Seeds May Be Future Energy Source

Money may not grow on trees, but scientists have discovered that oil, in many forms, does.

Processed oil from the seeds of certain trees and plants could become a major renewable energy source, says Eugene B. Shultz Jr., WU professor of technology and human affairs (THA), and coordinator of a wide-scale feasibility study on the oilseed energy concept.

"How soon it's going to happen, we don't know," says Shultz. "The whole thing depends heavily on the price of petroleum oil, which continues to escalate faster than the price of vegetable oils."

Shultz cautions that the technology to recover and process oil from the seeds of such little-known trees and plants as the Chinese tallow tree, the buffalo gourd and the neem tree, is far from completed. But, he says, it is possible that these trees and plants could have a substantial impact on the ability of many countries, especially developing ones, to meet their energy needs. Shultz, together with THA colleagues Robert P. Morgan, chairman, and William P. Darby, associate professor, are studying the potential use of seed oils as both diesel fuel extenders and firewood replacement, in addition to the industrial applications of unusual chemicals in certain seeds.

This is a new approach to utilizing renewable resources, says Shultz, adding that practical experiments are already underway.

Using vegetable oils for energy, though, raises a controversial question: Should farmland be saved only for food, and not fuel?"

"One reason we're concentrating on unconventional oilseeds is that most will grow on marginal lands where farming is not practical," says Shultz. He points out that the Chinese tallow tree has sprung up wild by the thousands along the Texas gulf coast where the intrusion of salt water has made most plant life nearly impossible.

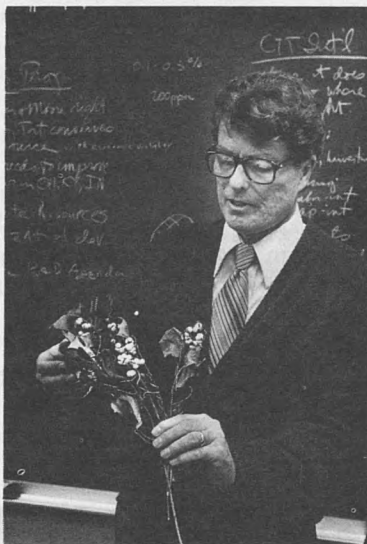
The tree produces a white, waxy berry with a thin, edible coating similar to cocoa butter. Shultz says oil from the pulp inside contains two rare fatty acids, which he speculates may have industrial uses in new types of polyesters and other polymers, synthetic lubricants, bactericides and fungicides. Up to 12 barrels of oil can be harvested from one acre of the trees.

The buffalo gourd, native to the southwestern United States and Mexico, also grows well under marginal conditions. Not only do the seeds found in its round, green-and-white-striped gourds contain up to 40 percent oil, but a substance similar to potato starch can be extracted from its root.

If the starch is converted to alcohol, one acre of the plants can produce 400 gallons—an alcohol yield equal to that of sugar cane and much higher than corn. Yet the buffalo gourd requires less moisture than either.

More research, including environmental studies, still needs to be done, Shultz says. Whether dry, wet, hilly, or saline—marginal lands are fragile ecosystems, and poor cropping practices could jeopardize them. Shultz hopes, though, that oilseeds grown and crushed at the village level could be a major energy boost in areas like Kenya, India and Tanzania, where fuelwood shortages have reached a critical point.

Another area of focus is the southeastern U.S., where the soil is low in nutrients. Oilseed crops could revitalize small farming and related rural businesses there, Shultz believes.



Eugene B. Shultz, Jr., holding a branch from a Chinese tallow tree.



Participating in Operation Crossroads Africa this summer are (left to right) Marzi Siekierski, Albert Walls and Prasanta Chettri. Wanda Gardner, the fourth member of the group, was ill when the picture was taken.

## Students Welcome Inner Growth From Rugged, African Experience

Four students will share in intense and undoubtedly memorable experience this summer when they spend six to eight weeks in various African countries under the Operations Crossroads Africa program.

The four, the largest number of WU students to participate in the program, are Prasanta Chettri, a junior in sociology from Belleville, Ill.; Wanda Gardner, a junior in sociology and international development from Rahway, N.J.; Marzanna (Marzi) Siekierski, a sophomore from Milford, Conn., and Albert Walls, a junior in civil engineering from Baltimore, Md.

Since its founding in 1958, Operations Crossroads Africa, based in New York City, has sent more than 5200 Americans to some 30 African countries to spend the summer working several hours a day with African volunteers on construction and agricultural projects. The program, which was the model for the Peace Corps, requires participants to live communally in rugged, rural conditions without electricity or running water. The challenging program also stresses contact among visiting Americans and native Africans, "a corrective," according to its literature, "to the historical imbalance of visitors taking more from African people than they give."

Gardner, who is considering medicine as a career, hopes to teach hygiene and health care in either Zimbabwe or Botswana. There, she believes she will learn as much as she imparts.

"I grew up believing in Africa the way it was portrayed on television," said Gardner, who is black. "Now, however, I think of Africa as a place where I might have been raised."

Gardner is not worried about living without the amenities of running water and electricity. "Where I was born in rural South Carolina, these conveniences also did not exist, and I guess I can experience it again."

Walls' own false images of Africa were dispelled by his past and current roommates from the Republic of South Africa, the Ivory Coast and Uganda. Intrigued by their stories about politically troubled southern Africa, Walls requested to be sent to Lesotho, a small, independent nation surrounded by the minority-ruled South Africa. Adjusting to the poverty-stricken lifestyle of that country will be "a learning experience," Walls said, "and an opportunity to interact. I am disappointed by the individualistic, non-helping attitudes of people in the United States. I hope to find there a group of people who want to accomplish something useful together."

When asked whether he was nervous about going to such a troubled part of the world, he replied, "I guess I have a little of the adventurer in me."

Siekierski has wanted to go to Africa for over a year. Because of her interest in rural medicine, she requested that

*continued on p. 4*



**David Felix**, professor of economics, will travel to two continents to present papers and attend symposia on Latin American economics and other topics in the coming months. In late April, he will present an invited paper to a conference in Quito, Ecuador, organized by the Aspen Institute for Humanistic Studies. In May, he will give a paper comparing two centuries of economic activity in Latin America at the conference at the University of Groningen, Netherlands. During late May and early June, he will lecture at The Hague and at universities in West Germany, Rumania and England.

**Edward S. Macias**, associate professor of chemistry, was one of six panelists on a program, "Clean Air and the National Parks." The program was televised live March 29 from

Washington, D.C. on several hundred cable television and public broadcasting stations. Macias is associate director of the WU Center for Air Pollution Impact and Trend Analysis.

**Richard H. Popkin**, professor of philosophy and Judaic studies, will be on leave next year to serve as Clark Professor at the University of California, Los Angeles. In addition to conducting research there, Popkin will organize a series of lectures by visiting professors on the Christian origins of Zionism, the subject of his own research.

In May, Popkin will teach a seminar and lecture at the University of Tel Aviv. Later in the summer, he will address the International Hume Conference at Dublin, Ireland, and a conference on 16th-century French philosopher Guillaume Postel at the University of Caen.

## Guggenheim—*continued from p.1*

Hirst, *Authority and Conflict: England, 1603-1658*, will be published next fall. In 1978 he helped arrange an international conference at WU entitled "Law and Liberty," which commemorated the 350th anniversary of the English Petition of Right. He also served on a WU committee to form an undergraduate program on "Law, Liberty and Justice."

Lützeler will use his Guggenheim Fellowship to complete research and writing on a definitive biography of the late 20th-century novelist Hermann Broch, who has recently been "rediscovered." Lützeler recently completed the editing of a 17-volume critical edition of Broch's writings entitled *Hermann Broch, His Collected Works*. In 1973, he published his first book on Broch, which was widely acclaimed because it presented a major new interpretation of this noted author. It is entitled, *Hermann Broch, Ethics and Politics: Studies on the Early Work and on the Novel Trilogy, "The Sleep Walkers."*

Price's research interest is the music of the late 17th-century English theatre. His compilation of a 12,000-entry catalogue of all known sources of English instrumental music of that period has resulted in numerous articles on the failure of Restoration musical plays to evolve into true opera and the influence of theatre politics on English drama. He has also written a book, *Music in the Restoration Theatre*. Price will study the theatre music of 17th-century composer Henry Purcell with his Guggenheim Fellowship.

Ruland is currently serving as Visiting Professor of English at the College of William and Mary. He will use his Guggenheim Fellowship to complete work on a book concerned with British backgrounds of American literature. A perennial prize

winner, Ruland previously received two Fulbright-Hays Fellowships to lecture abroad. He is the author of five books, the most recent of which is *A Storied Land: Theories of American Literature*, Vol. II, published in 1976.

The **WU Record** is published weekly during the academic year by the Information Office. Editor: Charlotte Boman (Ext. 5251). Calendar Editor: Susan Kesling (Ext. 5254). Address communications to Box 1142.

## Phi Beta Kappa, Sigma Xi Plan Initiations for New Members

William Arrowsmith, professor of classics and humanities at Johns Hopkins University, will deliver the annual Phi Beta Kappa/Sigma Xi Lecture at 11 a.m. Wednesday, April 22, in Graham Chapel. His talk will be on "The Poem as Palimpsest: T.S. Eliot's *Lune de Miel*."

Special recognition will also be given at the lecture to retiring professor emeritus of German Liselotte Dieckmann, a member of the WU faculty since 1944 and former chairwoman of the German department.

Arrowsmith, a wide-ranging scholar of letters, has translated numerous classic Greek, Latin and Italian works and written essays on Greek drama, Italian fiction, American Indian writing, and the role of the humanities in graduate education. He also writes poetry and fiction.

New members of Phi Beta Kappa, superior undergraduates in the arts and sciences, will be initiated formally at 4:30 p.m. Thursday, May 21, in Steinberg Auditorium. Burton M. Wheeler, professor of English and religious studies and president-elect of the WU Chapter of Phi Beta Kappa, will be the speaker.

New members of Sigma Xi, a prestigious scientific research society, will be initiated at private ceremonies following Wednesday's lecture. Sigma Xi initiates include undergraduate and graduate students, as well as post-doctoral fellows and young faculty members.

Phi Beta Kappa members-elect are:

Juniors		
Teresa Breiner	Eric S. Furfine	Jean C. Pappas
Christina E. Luedke	Laura A. Geringer	Thomas Reifsnnyder
Forbes D. Porter	Darren R. Gitelman	Kathy Yoo Young Rhee
Steven Weber	John A. Goldstein	Tracy Ronvik
	Evan R. Hack	Mark S. Rzechowski
<b>Seniors</b>	Rachel F. Haft	Deborah S. Schlick
Morris W. Barzilai	James L. Helman	Nathan E. Schroeder
Craig T. Basson	Kyron J. Huigens	Eric J. Sirevaag
Marc J. Belgrad	Scott D. Huler	Lawrence D. Talbott
Sharon D. Berliant	Cheryl L. Jacobson	Douglas R. Thornburg
Kenneth M. Boucher	Mark A. Johnson	Sherri Jo Udell
Peter W. Bushunow	Jeffrey B. Judd	Gerry J. Wedig
David A. Butz	Kevin P. Keating	Peter J. Weiss
Judith A. Chernoff	Mitchell A. Klein	Megan E. Wren
Jennifer L. Craig	Thorstein L. Krebs	Richard M. Wyatt
Jeffrey A. Dinkin	Susan M. Larson	Brian Chien Yee
Mary J. Evans	Linda R. Lerner	Jordan S. Zuckerman
Lawrence N. Feingold	Carol J. Malina	<b>Aug., Dec. 1980</b>
Michael L. Feld	Ruth S. Meinen	<b>Graduates</b>
Lori B. Feldman	Andrew B. Mensch	Ariel Amir
Susan N. Flick	Vicki E. Mendelson	Joan Luebering
Andrew E. Floren	Lori Ann Mohr	Casey J. Page
Myrto Frangos	Karl F. Narveson	Rebecca S. Procter
		Jeffrey D. Robinson

Sigma XI initiates are:

Elected to full membership		
Shien-Liang Chang	Nouha Salibi	Mark A. Johnson
James A. Delmez	Mark A. Shayman	Jonathan D. Kent
Deborah T. Haimo	Isolde E. Thalmann	Stephen Leonhardt
Hai Huang	Keh Wen Whang	Dale M. Pitt
Marija Ilic-Spong	Wen-Pao Wu	Gail E. Wagner
Judith L. Lauter	<b>Elected to associate membership</b>	<b>Promoted to full membership</b>
Paula Lundberg	Craig T. Basson	Kye J. Han
	Anandkumar P. Bhate	Patricia A. Jacobberger

## Cleveland Marketing Expert to Give Lecture

A Cleveland marketing expert, B. Charles Ames, president and chief executive officer of the Acme-Cleveland Corp., will deliver the second in an annual series of lectures sponsored by the Kellwood Co. of St. Louis on Wednesday evening, April 22 at the Whittemore House.

Ames will speak on "Strategic Planning for Industrial Companies: Key to Profit Growth" at a 6:45 p.m. dinner for marketing executives in the St. Louis area. The event is being planned by the marketing faculty of the WU School of Business Administration.

Ames will discuss marketing concepts with students earlier in the day from 1 to 2:30 p.m. in the courtroom of Mudd Hall.



# Calendar

April 17-23

## Friday, April 17

**9 a.m. Mortar Board Symposium,** "Is There Life After College?" Discussion on related topics will be held through a noon lunch by WU staff, students and alumni. Ann Whitney Olin Women's Bldg. Lounge.

**2 p.m. Technology and Human Affairs Seminar,** "Organic Farming in the Cornbelt," Daniel H. Kohl, WU prof. of biology and sr. fellow, CBNS. 104 Lopata.

**7:30 p.m. Latin American Studies Lecture,** "El Salvador: Struggle for Democracy," Ramon Cardona, rep. of the Democratic Revolutionary Front (F.D.R.), El Salvador. Rebstock Aud.

## Saturday, April 18

**9 a.m. Neural Sciences Seminar,** "Limbic Control of the Hypothalamus," Joseph Price, WU assoc. prof. of anatomy and neurobiology. 928 McDonnell Bldg., 4570 McKinley.

## Monday, April 20

**12 noon. Department of Genetics Lecture,** "Analysis of the Human MHC by Somatic Cell Genetics," Paul Gladstone, dept. of pediatrics, U. of Washington, Seattle. 928 McDonnell Bldg., 4570 McKinley.

**2 p.m. Department of Chemical Engineering Seminar,** "Multiphase Block Copolymers," M. C. Williams, dept. of chemical engr., U. of Calif., Berkeley. 100 Cupples II.

**4 p.m. Department of Biology Seminar,** "Genetic Studies of Sclerotium Rolfii," James Maniotis, WU prof. of biology. 322 Rebstock.

**4 p.m. Cellular and Molecular Programs Lecture,** "Genetic and Mechanistic Aspects of Graft versus Host-Associated Immunosuppression in Mice," Gene Shearer, Immunology Branch, National Cancer Inst. Erlanger Aud., 4570 McKinley.

## Tuesday, April 21

**9:30 a.m. Graduate Institute of Education Lecture,** "Educational Policy: Can We Make It?" Michael F. D. Young, sr. lecturer in educational sociology, U. of London. 217 McMillan.

**12 noon. Biomedical Engineering Seminar,** "Ophthalmic Instrumentation—Present and Future," Jay Fleischman, director of Retina/Vitreous Service, St. Louis U. 405 Bryan.

**1 p.m. George Warren Brown School of Social Work Colloquium,** "An Empirical Glimpse of Voluntarism," David F. Gillespie, WU assoc. prof. of social work, and Anthony King, WU social work student. Brown Lounge.

**4 p.m. Department of Surgery Lecture,** "Hormone Action at the Molecular Level," W.I.P. Mainwaring, prof. of biochemistry, U. of Leeds School of Medicine. Brown Room, Jewish Hosp.

**7 p.m. Plant Biology Program Lecture,** "Fixation by Non-Symbiotic Associations," Charles Sloger, Cell Culture and Nitrogen Fixation Lab., U.S.D.A., Beltsville, Md. 309 Rebstock.

**7 p.m. L.S.A.T. Preparation Workshop,** sponsored by the WU Student Educational Service. Victor Farwell, WU asst. dean, College of Arts and Sciences, and Phyllis Dubinsky, WU reading specialist. Registration fee, \$5. Lambert Lounge, Mallinckrodt. (Also Wed., April 22, and Thurs., April 23, same time, Lambert Lounge).

## Wednesday, April 22

**11 a.m. Phi Beta Kappa/Sigma Xi Lecture,** "The Poem as Palimpsest: T. S. Eliot's *Lune de Miel*," William Arrowsmith, prof. of classics, Johns Hopkins Univ., Baltimore, Md. Graham Chapel.

**11:30 a.m. Department of Civil Engineering Seminar,** "The Use of Input-Output Modelling Techniques in Port Studies," Jerome Gilbert, economist, Chemical Bank, New York. 104 Lopata.

**12 noon. George Warren Brown School of Social Work Panel Discussion,** "The New Administration: Its Impact on Social Services," U.S. Rep. Richard A. Gephardt; Jack A. Kirkland, WU assoc. prof. of social work, and Jeffrey Tallent, director of planning, United Way. Brown Aud.

**1 p.m. School of Business Administration Kellwood Lecture,** "Marketing Concepts," B. Charles Ames, president and chief executive officer, Acme-Cleveland Corp. Mudd Courtroom.

**4 p.m. Cellular and Molecular Programs Lecture,** "Some Studies on the Genetic Basis for the Mammalian Cell Cycle," David M. Prescott, dept. of molecular, cellular and developmental biology, U. of Colo., Boulder. 322 Rebstock.

**4 p.m. Department of Surgery Lecture,** "Hormone Action and Cancer," W.I.P. Mainwaring, prof. of biochemistry, U. of Leeds School of Medicine, Leeds, England. Brown Room, Jewish Hospital.

**4 p.m. Assembly Series Lecture,** "Social and Political Problems for Scientists in the Soviet Union," Alex Goldfarb, molecular biologist, Max Planck Institute for Biochemistry, Munich, and Russian dissident emigrant. Hurst Lounge, Duncker.

**8 p.m. Department of English Fiction Reading** by Hilma Wolitzer, novelist and Visiting Hurst Professor. Hurst Lounge, Duncker Hall.

## Thursday, April 23

**2:30 p.m. Department of Mechanical Engineering Seminar,** "Optimal and Statistical Design of Externally Pressurized Vessels," M. P. Gomez, WU prof. of mech. engr. 100 Cupples II.

**4 p.m. Department of Chemistry Seminar,** "NMR of Spinning Solids without Spinning Sidebands," Tom Dixon, WU postdoctoral research assoc., dept. of chemistry. 311 McMillan.

**4 p.m. Center for the Study of Data Processing Lecture,** "Management Futures in IRM," Frederic G. Withington, vice president, Arthur D. Little Inc., Cambridge, Mass. 199 Cupples I.

**4 p.m. Jewish Studies Lecture,** "Search for Justice and Better Society in Jewish Communal Life," Rabbi Herman Pollack, Hillel, MIT. Cosponsored by Hillel. Hurst Lounge, Duncker.

**4 p.m. Public Affairs Thursday Lecture,** "Public Funding of Political Campaigns," Ruth S. Jones, dept. of political science, UMSL. Lambert Lounge, Mallinckrodt Center.

## Films

### Friday, April 17

**7:30 and 10 p.m. WU Filmboard Series,** "All That Jazz." Brown. \$1.75. (Also Sat., April 18, same times, Brown.)

**12 midnight. WU Filmboard Series,** "The Kids Are Alright." Brown. \$1. (Also Sat., April 18, same time, Brown.)

### Tuesday, April 21

**7:30 p.m. American Film Musical Series,** "The Sound of Music." Brown. \$2.

### Wednesday, April 22

**7 p.m. Women's Film Series.** "The Willmar 8" and "Women's Work: Engineering." Gargoyle. No charge.

**7:30 and 10 p.m. WU Filmboard Series,** "Luna." Brown. \$1.75. (Also Thurs., April 23, same times, Brown.)

### Thursday, April 23

**8 p.m. Department of Chinese and Japanese Film,** "Otoko Was Tsuraiya (Tora-san)" Steinberg Aud. No charge.

## Music

### Saturday, April 18

**8 p.m. Department of Music Faculty Recital,** with Jacob Berg, principal flutist, St. Louis Symphony; Mary Mottl, piano artist-in-residence, St. Louis U; and Tom Hamilton, mus. dir., Innervision Productions. The program will include 20th-century and avant-garde works. Steinberg Aud. No charge.

### Tuesday, April 21

**8 p.m. Department of Music Electronic Music Concert,** with Rich O'Donnell, principal percussionist, St. Louis Symphony Orchestra and WU part-time instructor of music, and his students. Tietjens. No charge.

## Sports

### Friday, April 17

**3 p.m. Men's Tennis.** WU vs. Westminster Col. WU Tennis Courts.

### Monday, April 20

**1:30 p.m. Golf.** WU vs. Principia Col. Forest Park.

### Thursday, April 23

**3 p.m. Men's Tennis.** WU vs. St. Louis U. WU Tennis Courts.

## Exhibitions

**"Master Prints from the WU Collection."** Print Gallery, WU Gallery of Art, Steinberg Hall. 10 a.m.-5 p.m., weekdays; 1-5 p.m., weekends. Through April 30.

**"School of Fine Arts Undergraduate Exhibition."** Upper and Lower Galleries, WU Gallery of Art, Steinberg Hall. Opening reception, 3 p.m., April 19. Viewing hours: 10 a.m.-5 p.m., weekdays; 1-5 p.m., weekends. Through April 30.

**Africa—** *continued from p. 2* she be placed at a medical project. "Africa is one place I've had little contact with, and it's an area where I probably would not be prepared to go to on my own," she said. She hopes the group she will join there will work together to overcome the culture differences. "A friend of mine who went last year said that the real culture shock comes when you return," she noted, "because the pace is so much faster in American society."

Chettri, whose parents' families live in southern India and Nepal, is the most traveled of the four. He has visited those countries three times, most recently, over semester break. Chettri hopes to go to Ghana, Nigeria or the Ivory Coast, where he expects the work and the environment to be difficult, but manageable. "The most interesting part will be seeing how people there live and how we will react to one another."

With nine weeks remaining before they go to Princeton University for a three-day orientation, the four Africa-bound students are busy raising their individual \$2,400 participation fees. Crossroads can assist students only minimally. WU's Black Studies Program is helping to raise the funds by contacting concerned individuals and community groups. Those wishing to help may send donations, payable to Washington University Operation Crossroads Africa, Inc., to the Black Studies Program, Box 1109.

## Complex—

*continued from p. 1*

later the University's Urban Research and Design Center made final recommendations for a physical development plan.

Lawrence M. Malcic, assistant professor of architecture and an architect in the Urban Research and Design Center, said he hopes a firm can be selected by August and that drawings and a model can be completed by the end of the year.

The complex will be constructed in phases as funds become available and will probably be located south of the existing facilities.