

Washington University School of Medicine

Digital Commons@Becker

Washington University Record

Washington University Publications

12-10-1981

Washington University Record, December 10, 1981

Follow this and additional works at: <https://digitalcommons.wustl.edu/record>

Recommended Citation

Washington University Record, December 10, 1981. Bernard Becker Medical Library Archives.
<https://digitalcommons.wustl.edu/record/220>.

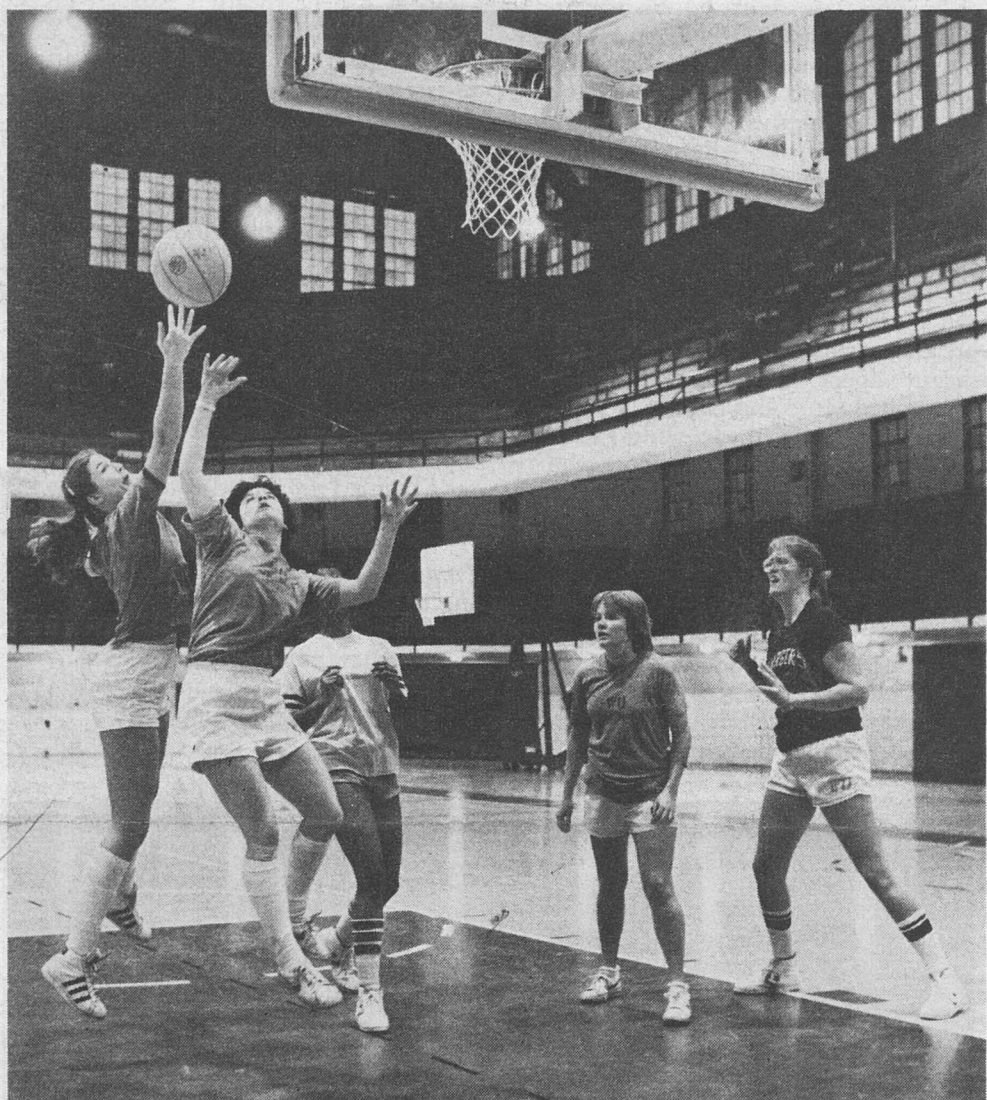
This Article is brought to you for free and open access by the Washington University Publications at Digital Commons@Becker. It has been accepted for inclusion in Washington University Record by an authorized administrator of Digital Commons@Becker. For more information, please contact vanam@wustl.edu.

ST LOUIS MO 63104
1903 LA SALLE ST
DR PAUL C ANDERSON

Washington University

Record

December 10, 1981



Lady Bears players (left to right) Kathy Fagan and Ellen Sullivan grapple for ball possession in a recent scrimmage as Denise Toney (partially hidden), Stacy Lewis and Meg Richardson watch for their opportunity to seize the ball.

Lady Bears open season with victory over Maryville

Senior center Bari Golub triggered a second-half splurge Tuesday night, Dec. 1, to lead the WU women to a 56-42 victory over visiting Maryville College in the Lady Bears' basketball season opener in Francis Field House.

Golub, a six-feet-two-inch star from St. Louis, poured in 14 of her game-leading 18 points as the Lady Bears overcame a 21-17 halftime deficit and outscored Maryville, 39-21.

Maryville led most of the first half, usually by 3 to 6 points. The Bears tied the score at 36-all with 6:36 to play, and then raced away from the visitors, 20-6, in the remaining time span.

Laura Vrlenich added 14 points and Laurie Skokan 10 for the Bears. Other WU points were by Ellen Sullivan, 6; Karen Platt, 6; and Stacy Lewis, 2. Kathy Fagan was the other WU player to see action.

Other members of Coach Gaye Kinnett's Lady Bears this year are Rose Puleo, Alison VanDusen, Jane Nuyen, Denise Toney, Donna Polk and Meg Richardson.

The team played in the Greenville tournament last weekend. During semester break, they will visit Culver-Stockton College in Canton, Mo., on Jan. 16. Subsequent home games for the Lady Bears are scheduled for: Jan. 25, 5:30

p.m., Lindenwood College; Jan. 26, 7:30 p.m., Fontbonne College; Feb. 2, 6:30 p.m., Southwest Baptist College; Feb. 9, 7:30 p.m., Principia College; Feb. 12, 7:30 p.m., University of Chicago; and Feb. 15, 7:30 p.m., MacMurray College. Away-game opponents include several on that roster, as well as McKendree College.

There is no admission charge to Lady Bears games, which are all played at the Francis Field House.

Pinafore course charted by large OTSL-WU crew

Once conceived, the idea that the University and the Opera Theatre of St. Louis (OTSL) join forces for a Christmas holiday production sparked the imagination of many people.

Richard Gaddes, general director of the Opera Theatre, had the company, but no theatre during the holiday season. The University had Edison Theatre, which would be dark because of the semester break. And during that long stretch of Christmas holidays, St. Louis resembled, all too often, a cultural desert.

The partnership that would ultimately launch Gilbert and Sullivan's

Backdoor federal financing blamed for soaring deficit, interest rates

An explosion of government credit activity — most of it involving backdoor federal financing free from congressional and public review — is exerting hidden pressure to force interest rates skyward, according to a report by WU's Center for the Study of American Business. "Backdoor financing and shadow budgets" are common in some 350 federal programs, according to the report, and produced a "true" deficit in 1981 nearly \$21 billion greater than reported to the public.

"More than three-fourths of federal lending occurs outside the federal budget and is not subject to review by Congress," state the authors, center director Clifford M. Hardin and Arthur T. Denzau, visiting research associate at WU and an associate professor of economics at Virginia Polytechnic Institute.

"It is no exaggeration to describe credit activity as a sprawling bureaucratic morass that continues to grow without guidance or restraint," Hardin and Denzau explain. Federally guaranteed loans in the private sector added \$90 billion to federal credit activity, and by the end of 1981, outstanding federal loans will total more than \$624 billion.

The end result of this huge, hidden deficit, Hardin says, is that government lending competes with private lending and pushes interest rates up.

"At any one time there is a given amount of money available in the country for loans," he explains. "The government is taking an increasing amount of the pool of money that's available for loaning and crowding out the other legitimate borrowers."

The federal government, through debt financing and loan guarantees, consumes 43 percent of the credit available in the nation's credit markets — an increase of 30 percent from 1979.

Hardin and Denzau point to two ways in which the government extends off-budget credit.

The first is the guaranteed loan program, begun in the 1930's to stimulate loans for housing. By backing private loans, the government encourages private lenders to invest in sluggish areas of the

economy that they might have been reluctant to enter on their own.

This type of loan program spilled from housing into other programs and now is the most rapidly expanding credit activity in the government, doubling in quantity since 1979, say the authors.

The second way is through the Federal Financing Bank (FFB), a small Treasury Department agency that is responsible for \$100 billion in outstanding loans.

The FFB is a source of funds for all government agencies. When an agency runs out of budgeted funds for making direct loans, it can turn over its outstanding notes to the FFB for cash, or it can ask the FFB to make a loan directly. By using the FFB, any federal agency can make loans without budgetary limits.

When the FFB needs to augment its cash reserves, it borrows from the public through the Treasury Department, thus adding to the national debt. Off-budget lending through the FFB reached \$32.2 billion in 1981 alone.

Why has such unrestrained lending received so little criticism?

One reason, say the authors, is because much of this activity takes place outside normal budget channels and is never debated in Congress. Another reason is that off-budget loans are valuable tools for politicians to funnel funds to their constituents without appearing extravagant.

Debt collection mechanisms and credit penalties for government loan programs are all but nonexistent, say Hardin and Denzau. Loans close to default are routinely issued payment deferrals or are refinanced. Few agencies assess interest on delinquent accounts, and the government cannot report defaults and delinquencies to private credit bureaus.

Given all this, say Hardin and Denzau, "it is little wonder that high delinquency rates do occur."

The authors suggest that developing an overall government management program for all federal credit agencies should be a top priority for both the Congress and the White House in 1982.

H.M.S. Pinafore onto the Edison stage for a 10-performance run, Dec. 22 to Jan. 2, was broached halfway in jest. At a dinner party, a little over a year ago, Merle Kling, provost and executive vice chancellor, found himself seated beside a man he knew only by reputation.

That man was Gaddes, who mentioned his eagerness for more performing opportunities for the Opera Theatre beyond its regular Loretto-Hilton season. The dinner partners decided to form a OTSL-WU theatrical "merger," but though the idea arose in a lighthearted manner, both men found it irresistible.

At WU, several key figures enthusiastically endorsed what would become the most formidable project ever mounted for Edison Theatre. Among them was Thomas Rimer, professor of Japanese language and literature and chairman of the Edison Theatre committee. Because of the opera commentary program he hosts on radio station KWMU-FM, Rimer had developed close ties with members of the Opera Theatre.

He began to put OTSL-WU people in touch. In the evolving partnership, the Opera Theatre agreed to provide the artistic unit of the production and the

continued on p. 2

W.S. Gilbert's fine sense of humor, so evident in his libretti, also radiates from his sketches.

(From *The Best Known Works of W. S. Gilbert*, Hartsdale House, New York, 1932.)



Double-deck plan may rejuvenate Social Security

Dire predictions that Social Security is headed toward bankruptcy have been around for some time. In 30 years the ratio of workers to beneficiaries has plummeted from a figure of 16 to 1 to a current estimate of 4 to 1 — a spiral that has depleted money reserves in the system. And Social Security officials say that the real crisis will occur in 2010, when the baby-boom generation of the 1950s reaches retirement.

Martha N. Ozawa, WU professor of social work, has devised a plan to head off that crisis. Her "double-decker" plan, submitted last year to the National Commission on Social Security, and the subject of a book, *Income Maintenance and the American Work Ethic*, to be published next year, aims to make the system more equitable, efficient and simple.

When the Social Security Act was passed in 1935, its purpose was to provide financially vulnerable Americans with what Ozawa calls "a dignified, acceptable scheme" of pension insurance. Inherent in this system was the principle of "individual equity," where benefits roughly equalled contributions plus interest.

In 1939, the Social Security Act was modified to incorporate another principle — "social adequacy" — the object of which was to redistribute retirement income to lower-income contributors. This side of Social Security began to provide what Ozawa terms "subsidies" above and beyond what contributors had paid in through payroll taxes.

While few realize it, people who retire now get back two and a half to six and a half times the amount of money they paid into the retirement fund plus interest. Thus, of the benefits that an individual will receive upon retirement in 1982, approximately 60 to 85 percent will be made up of subsidies.

"Presently Social Security is in trouble because it is having to pay larger amounts to more beneficiaries than it was designed to pay," said Ozawa. "We have built into the program a perpetual subsidy, unreasonably high in some cases. Compounding the problem is the fact that the number of beneficiaries has increased faster than the tax-paying population."

With so much going out, one might hope at least that the social adequacy motive is being satisfied. Not so, says Ozawa. Even though benefit factors are weighted toward low-income contributors, "in absolute terms, workers with a record of high earnings receive larger subsidies than workers with a record of low earnings," she said.

"Let's make them equal to everybody and, in so doing, save money for the entire system."

The basic logic behind Ozawa's plan is to separate the concepts of individual equity and social adequacy into two additive, well-defined, understandable benefit payments.

The first deck represents a universal pension paid to everyone of retirement age that could be raised or lowered by



Martha N. Ozawa

Congress depending upon the state of the economy at the time. This amount, Ozawa says, could guarantee at least poverty-line income.

Those retirees who had made Social Security contributions during their work lives would receive a second monthly benefit — simply, an annuity for lifetime contributions plus interest, satisfying the purpose of individual equity.

Ozawa's plan would have three main effects. First, it would be fair; everyone would receive the same initial subsidy.

Secondly, the program would be more efficient. "Such a system would offer flexibility for upgrading either the flat benefit or contribution-related benefits, depending upon legislative intent at a given time," Ozawa said. "Each generation could incorporate its own aspirations and sense of fairness in the evolutionary process of improving the Social Security program."

Finally, the double-decker plan would assuage the fears, distrust and misconceptions that are so prevalent now about the current system.

In short, she is suggesting exactly what one of Social Security's founding fathers did early in its development: "Social Security will always be a goal, never a finished thing, because human aspirations are infinitely expandable, just as human nature is infinitely perfectable."

Washington University Record (USPS 600-430), Volume 7, Number 14, Dec. 10, 1981. Published weekly during the school year, except school holidays, at the Office of News and Information, campus box 1142, Washington University, Lindell and Skinker, St. Louis, Mo. 63130. Second-Class Postage Paid at St. Louis, Mo. Postmaster please forward change of address to Campus Box 1142, Washington University, St. Louis, Mo. 63130.

Editor: Charlotte Boman
(Ext. 5251)

Calendar Editor:
Susan Kesling
(Ext. 5254)

OTSL-WU — continued from p. 1

University the back-up side. In coordinating these units, Edison Theatre's managing director Hazel Forster would prove to be a vital link, stretching her forces far beyond the line of duty.

In selecting the work itself, the partners agreed with Kling that it should be "neither esoteric nor kitsch, but one that would elevate the holiday spirit."

With these criteria in mind, the *H.M.S. Pinafore*, one of the gayest and most enduring of the Gilbert and Sullivan operettas, hove into view. With its breadth of appeal, the work combines theatre, opera, and sheer entertainment, well-honed satire and political comment. "Because of its spectacle, children love Gilbert and Sullivan, as do those who want their mind tickled as well as their ear," Rimer said.

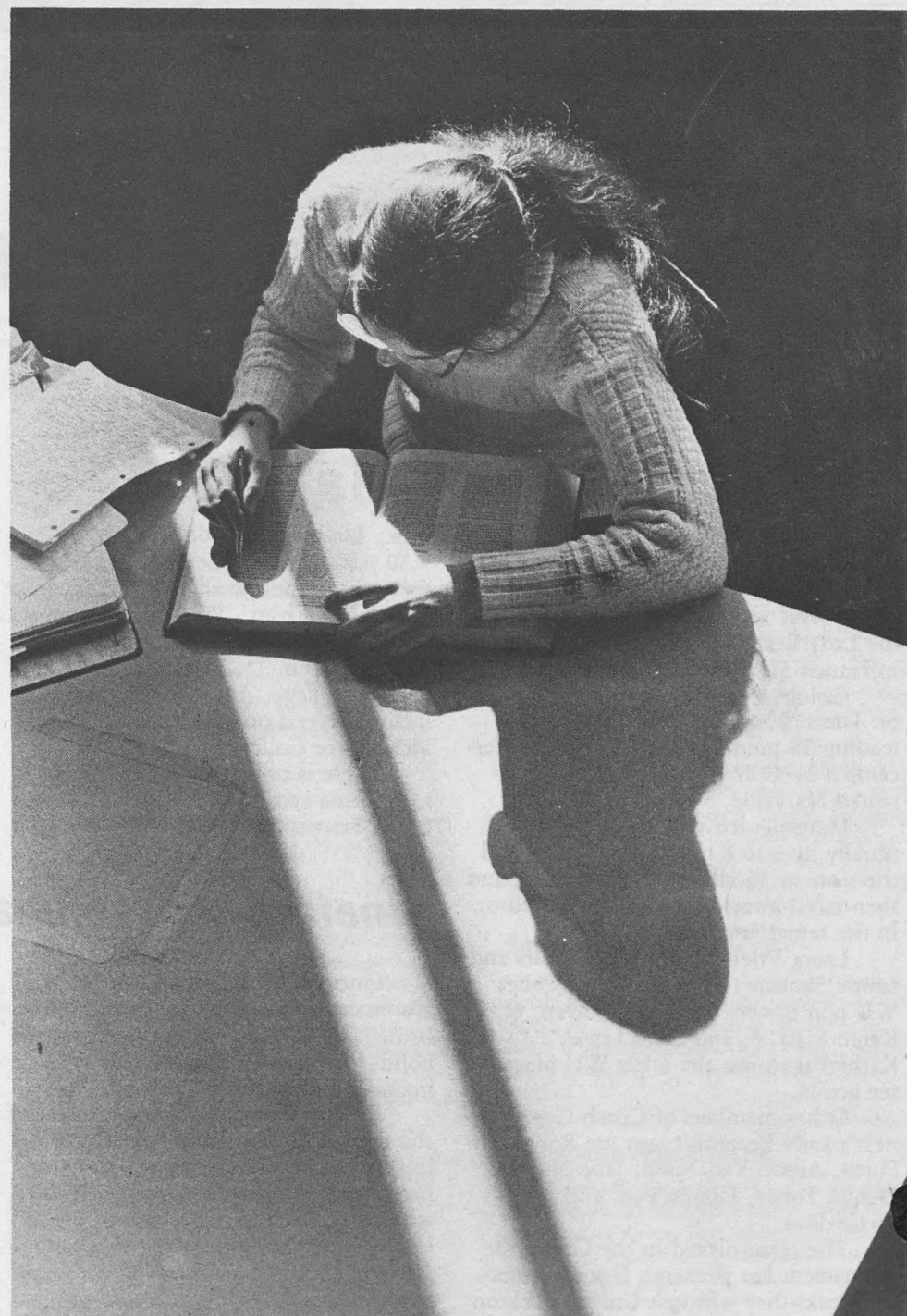
The work, he noted, with its intricate list-songs and patter-songs, calls for a great deal of precision, a skill that the Opera Theatre with its solely English repertoire has in abundance.

Gaddes's enthusiasm for the *Pinafore* production is borne out by the fact that,

for its stage director, he enlisted Colin Graham, Opera Theatre's associate artistic director, Rimer said. From the WU music department, Gaddes tapped artist-in-residence Nicholas McGegan as conductor and chorus master. Both men offer special expertise not only as outstanding figures in their fields, but as Englishmen raised on Gilbert and Sullivan.

Into the capable hands of Jack Brown, Edison's technical director, fell the task of constructing the weight-bearing part of the scenery, which includes the *Pinafore* deck and bridge. The set was designed in the highly stylized tradition of the Victorian toy theatre by Jay Ferger, scenic designer of the Minnesota Opera Company in St. Paul, where the set's painted drops and wings are being constructed.

On Dec. 22, with the good ship *Pinafore* safely in port, "we'll be showing Edison Theatre off to yet another audience. The Opera Theatre will have found a new arena," said James W. Davis, vice chancellor and associate provost. "Everyone benefits."



Most University divisions will observe reading week Dec. 12-16, with final examinations scheduled for Dec. 17-23. Law students, such as this woman, began putting their semester's learning to the test Dec. 9.

Campus Notes

Two members of the faculty of the Program in Occupational Therapy made presentations at the annual meeting of the International Society of Developmental Psychobiology last month in New Orleans, La.

C. Robert Almli, associate professor, was an invited speaker at a symposium on "Electrophysiological Methods During Development" and presented a poster session on taste development in the rat.

Erika A. Gisel, assistant professor, presented a research paper entitled "Effect of Oral Motor Experience on Subsequent Locomotor Development."

Brian L. Clevinger, assistant professor of immunology at the WU School of Dental Medicine, recently gave a presentation on the structure of antibodies at the Hoffman-LaRoche Institute in Basel, Switzerland. The Institute is held there every four years.

Helen Davis, executive director of the Campus Y, will chair the Program Committee of the National Association of Student YMCAs. Jeanne Palm, co-chairwoman of the Campus Y Cabinet and a junior in the Sever Institute undergraduate program, was also appointed to chair the Constitution Committee of the same organization. Both appointments were made at a recent convention of the association in Rochester, N.Y.

Joan M. Garrison and **Gertrude L. Knelleken**, associate professors of physical education, were honored last month when they received the Helen Manley Award of the Missouri Association for Health, Physical Education, Recreation and Dance. This award is presented to those individuals who have outstanding records of service in the areas of physical education and athletics.

In addition to her duties on the Hilltop campus, Garrison has an appointment at the Central Institute for the Deaf. Knelleken, former dean of women here, is presently assistant director of sports and recreation for physical education.

Charles E. Hogan, assistant director of the General Services Department, was recently elected chairman of the Missouri-Kansas regional chapter of the National Association of Educational Buyers (NAEB).

Hogan has been active in the local, regional and national NAEB organization for the past six years and has served on the regional level as secretary, treasurer, and vice chairman. He has been instrumental in the organization and presentation of the annual regional meetings.

Daniel R. Mandelker, Howard A. Stamper Professor of Law, is coeditor of the newsletter of the Planning and Law Division of the American Planning Association. The newsletter, issued six times a year, includes articles on recent

land-use cases, innovative legal techniques, and division activities. There are 13 divisions in the APA, each of which issues a newsletter.

John Herman, a third-year WU law student from Bethesda, Md., is the coeditor of the newsletter, which has a staff of five law students.

Erwin B. Montgomery, Jr., assistant professor of neurology at the School of Medicine, has been awarded a \$20,000 grant from the American Parkinson's Disease Association. Montgomery will study how the basal ganglia (a collection of nerve cell bodies located in each brain hemisphere) affect movement, particularly when lesions are made at the substantia nigra, the part of the basal ganglia primarily affected by Parkinson's disease.

Linda B. Salamon, dean of the College of Arts and Sciences, will be a featured panelist on a program that will underscore the importance of liberal learning at an Association of American Colleges (AAC) national meeting to be held Jan. 10-12 in Boston.

The AAC is comprised of 600 members, most of them from two- and four-year institutions, both public and private, who share a common concern for improving the liberal learning component in American higher education.

Herb Weitman, director of WU's photographic services and adjunct professor, School of Fine Arts, has received a "Graphic and Design Award" from the National Association of Educational Broadcasters (NAEB) for a portrait of Howard Nemerov, Edward Mallinckrodt Distinguished University Professor of English, which appeared on the cover of the June 1981 program guide of Channel Nine, KETC-TV.

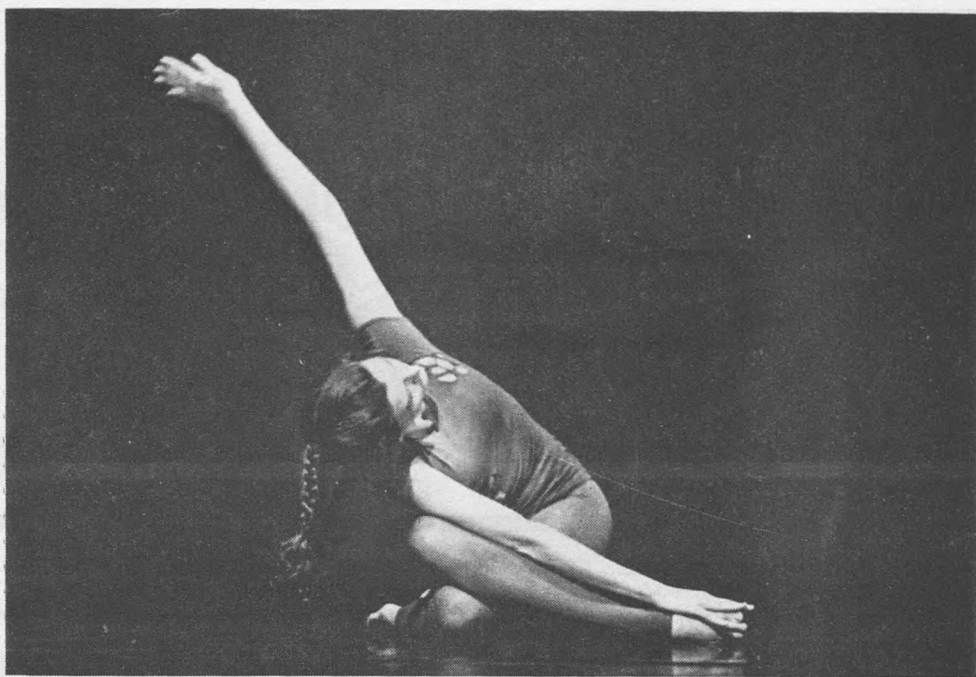
Nemerov was featured on the cover to alert KETC-TV viewers to a documentary it produced on his career and accomplishments directed by Kathy Corley (MA '76), aired several times locally by Channel Nine. The Public Broadcasting Service (PBS) will distribute this documentary nationally to its affiliated stations.

John T. Woolley, WU assistant professor of political science, has been awarded a grant to conduct research on economic policy coordination among industrial countries. He will do the research while he is on leave of absence in Europe during the spring semester.

The six-month grant was awarded by the Social Science Research Council (SSRC) of New York City and the Fulbright program.

Woolley will select and examine in detailed case studies episodes in monetary policy-making in Great Britain, France and Germany during the last decade.

Items about faculty, staff and student activities for the Campus Notes column may be sent to Box 1142. Please type material submitted and include name and phone number.



WU dance students will perform their choreography at the annual Fall Student Dance Concert this weekend (see *Calendar* for details) in the Edison Dance Studio. Producer of the concert is Winifred Crumrine (above), a senior dance major, who will contribute two of her pieces and a solo dance from the repertoire of Michio Ito, a pioneer of American modern dance.

Volunteer work ebbs as women pursue careers

A study conducted for the Women's Division of the Jewish Federation of St. Louis has found that many women put volunteer work low on their list of priorities, when considering family and career.

The study, conducted by Gary Tobin, WU assistant professor of urban studies, was concerned with how much time St. Louis women devote to volunteer work for philanthropic organizations.

"Women are spending less time on volunteer work as they pursue educational and career goals," Tobin said.

A slight majority of the 211 women surveyed in the study devoted less than one hour a week to volunteer work, Tobin pointed out.

"Too many demands were being

made on their time," he added. "A lot of them were working part-time or training for full-time work when their children are grown. Many of them found more fulfillment in career-oriented activities than in volunteer work."

Tobin's findings have prompted discussion by the Women's Division on how to adjust volunteer tasks to meet the needs of working women.

The women surveyed had families with children under 18 years of age, were well-educated and in the middle-income range. The return rate of the survey was 75 percent.

S & H Foundation funds public affairs lectures

The Center for the Study of Public Affairs has been awarded a \$2500 grant to hold a series of lectures on "Population Dynamics and Public Policy" by the S&H Foundation, the charitable arm of the Sperry & Hutchinson Co. The company is best known for its S&H Green Stamps.

Three lectures were held this fall and three more are scheduled in the spring.

WU was one of 48 universities to win such a grant. There were 314 entries in the 1981-82 lectureship grant competition. Since the program was established by the S&H Foundation in 1960, 764 grants exceeding \$1,440,000 have been made to academic institutions.

The program was designed to bring prominent and thoughtful speakers to the campuses and to help strengthen college and community ties by opening the lectures to the public.

Housewares needed

Do your spring cleaning early this year and turn old furniture and housewares into a scholarship for a student. The Furniture Exchange, the non-profit exchange store run by the Women's Society of WU, needs basic home furnishing contributions and sales.

Items such as chairs, beds, dressers, desks, dinette sets and pots and pans are desired. All gifts are tax deductible and pick-up service is available.

The Furniture Exchange buys and collects furniture from departing students and from St. Louis residents and sells it to university newcomers. All proceeds go to the Women's Society's Scholarship Fund.

The Furniture Exchange is located at 6551 University Drive. It is open from 10 a.m. to 3 p.m. Mondays and Wednesdays. For more information, call the Society's office at 889-5295 or the Furniture Exchange at 889-5206.

WU dentists participate in program for disabled

The WU School of Dental Medicine will take part in a new access program to provide dental care for the disabled. The program, to begin in January, is being implemented by the Missouri Dental Association. An estimated 700,000 Missouri residents will be eligible.

In order for the program to become a reality, dentists in all communities must be capable of treating the disabled. Shirley Pierce, who chairs the WU Department of Community and Preventive Dentistry, will coordinate a series of free training courses in eastern Missouri for dentists who wish to work with handicapped patients. Mobile dental units, funded by the Elks of Missouri, will be used for the courses.

Calendar

December 10-19

Lectures

Thursday, December 10

3 p.m. George Warren Brown School of Social Work Colloquium, "Social Work Education and Agency Staff Development — Practice Skills for Black Minority Families," Nan White, chairwoman, Minorities Subcommittee, Jo Mink, director, Regional Child Welfare Training Center, and other members of the Region VII Child Welfare Training Center Minorities Subcommittee. Brown Hall Lounge.

3:30 p.m. Public Choice Workshop, "Housing, Voting and Moving: Equilibrium in a Model of Local Public Goods with Multiple Jurisdictions," Thomas Romer, Carnegie-Mellon U. Sponsored by the Center for the Study of American Business. 300 Eliot Hall.

4 p.m. Department of Physiology Lecture, "Synaptic Activity of Neurons Visualized by Autoradiography," Doju Yoshikami, dept. of biology, U. of Utah. Cori Aud., McDonnell Medical Sciences Bldg., 4570 McKinley.

4 p.m. Department of Chemistry Seminar, "Circular Polarization of q-Radiation from Heavy-Ion Reactions," Hermann E. R. Puchta, WU postdoctoral research associate in chemistry. 311 McMillen Lab. (Coffee hour, 3:30 p.m., 561 Louderman.)

4 p.m. Plant Biology Program Lecture, "Changing mRNA Populations in a Developing Plant System," Leon Dure, dept. of biochemistry, U. of Ga. 322 Rebstock.

Friday, December 11

11:30 a.m. Woman's Club Luncheon and Historical Program for members and guests. Jefferson Memorial in Forest Park. Shuttle bus service available. Tickets \$6.50. Call Pat Sarantites, 862-6615, for reservations.

3 p.m. Graduate Institute of Education Colloquium, "Educating for Post-Industrial Society," Robert Boguslaw, WU prof. of sociology. 217 McMillan.

4 p.m. Faculty of Arts and Sciences Meeting. 201 Crow.

4 p.m. Department of Biology Third Annual Viktor Hamburger Lecture, "Biotechnology: Social and Scientific Implications," Howard Schneiderman, senior vice president of research and development, Monsanto Co. 215 Rebstock.

Last Day of Classes. A University-wide study period will follow on Dec. 12-16 with final examinations to be held Dec. 17-23. Classes for the spring semester will begin Monday, Jan. 18, 1982.

Saturday, December 12

3 p.m. Christmas party for international students. Sponsored by the Women's Society of WU. Stix International House, 6470 Forsyth Blvd.

Ensemble holds auditions

The WU Wind Ensemble has openings for outstanding high school and college musicians and area music educators in several sections, beginning in January.

Chairs are open for players of clarinet, bass clarinet, tuba and baritone saxophone. The Wind Ensemble will give four concerts next spring.

Auditions will be held from 4 to 6:30 p.m. Monday, Dec. 14 and Monday, Jan. 18, 1982, in Tietjens Rehearsal Hall, but other audition times may be arranged. To schedule an audition time on either of these dates or on another date, call director Dan Presgrave at 638-3492 or the Music Department at 4 889-5581.

Monday, December 14

Noon. Department of Pharmacology Lecture, "Arachidonic Acid 15 — Lipooxygenase Products from Human Eosinophils," John Turk, division of clinical pharmacology, Vanderbilt U. Pharmacology Library, third floor, South Bldg., 4577 McKinley.

4 p.m. Department of Sociology Lecture, "The Making of Foreign Policy Since 1945: The United States," Henry Berger, WU assoc. prof. of history. 219 McMillan.

4:30 p.m. Needlework Society Lecture, "Differences Among Individual Muscle Fibers in Response to Training Stimulation and Disease," Oliver Lowry, WU Distinguished Professor Emeritus of Pharmacology. Cori Aud., McDonnell Medical Sciences Bldg., 4570 McKinley.

Tuesday, December 15

4 p.m. Department of Chemistry Seminar, "Theory of a Helix to Random Coil-Transition in Two Chain Coiled Coils," Jeffrey Skolnick, dept. of chemistry, La. State U. 311 McMillen Lab. (Coffee hour, 3:30 p.m., 561 Louderman.)

4 p.m. Cellular and Molecular Programs Lecture, "Thick Filament Control of Muscle Contractions: Regulatory Myosins," Andrew G. Szent-Gyorgyi, dept. of biology, Brandeis U. Cori Aud., McDonnell Medical Sciences Bldg., 4570 McKinley.

Wednesday, December 16

Noon. Cardiovascular Visiting Professor Program Lecture, "Ventricular Arrhythmias and Ischemic Heart Disease: Approach to Management," J. Thomas Bigger, Jr., prof. of medicine and pharmacology, Columbia U. College of Physicians and Surgeons. Cosponsored by Medtronic, Inc. East Pavilion Aud., Barnes Hospital Plaza.

4 p.m. Population Biology Program Lecture, "The Developmental Genetics of Drosophila Glucose Oxidoreductase: Dual Functions in Eclosion and Reproduction," Doug Cavener, section of genetics and development, Cornell U. 322 Rebstock.

4 p.m. Department of Physics Colloquium, "High-Energy Neutrino Astrophysics," Maurice M Shapiro, prof. of physics, U. of Iowa and Laboratory for Cosmic Physics. 201 Crow. (Coffee hour, 3:30 p.m., 245 Compton.)

5:45 p.m. Society of Professors Emeriti Fourth Annual Banquet. Cocktail hour begins at 5:45 p.m.; dinner at 7 p.m. Whittemore House, 6440 Forsyth Blvd. Music by the Belle Musique String Quartet.

Thursday, December 17

Noon. Department of Pharmacology Lecture, "The Purified Regulatory Subunit of Adenylate Cyclase," Paul Sternweis, dept. of pharmacology, U. of Texas Health Science Center, Dallas. Pharmacology Library, third floor, South Bldg., 4577 McKinley.

3:30 p.m. Center for the Study of American Business Workshop, "The Objectives of Egalitarianism," Gordon Tullock, Virginia Polytechnic Institute and State U. 300 Eliot.

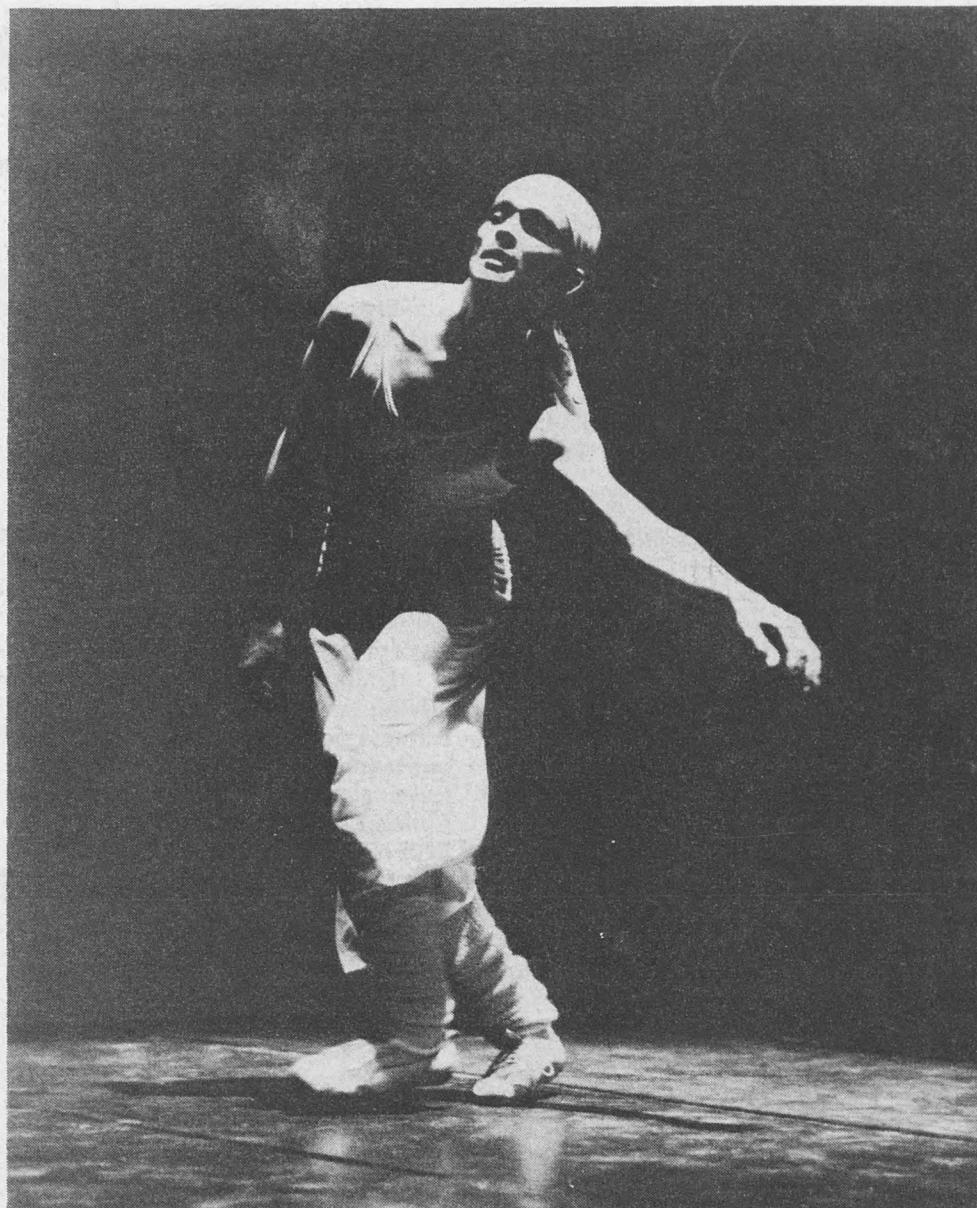
4 p.m. Department of Chemistry Seminar, "Metal Clusters and Catalysis," Victor Day, dept. of chemistry, U. of Neb. 311 McMillen Lab. (Coffee hour, 3:30 p.m., 561 Louderman.)

7:30 p.m. Department of Political Science Colloquium, "The Welfare State and Local Government," Carolyn T. Adams, assoc. prof. of urban studies, Temple U. Ann Whitney Olin Women's Bldg. third floor lounge.

Exhibitions

"Refracted Color: Literature and the Arts from the Gert von Gontard Collection." Special Collections, Olin Library, level five. 8:30 a.m.-5 p.m. weekdays. Through Dec. 29.

"Alvar Aalto Memorial Exhibition," showing furniture and building design work by Finland's leading architect. Lower Gallery, WU Gallery of Art, Steinberg Hall, 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. Through Jan. 24.



Puerto Rican-born dancer Manuel Alum will present a collage of his impressions of Japan in "Made in Japan" at 7 p.m. Friday, Dec. 11 and Sunday, Dec. 13, in Edison Theatre. Tickets are available at the box office.

"Master of Fine Arts Show: Judy Thompson," an exhibit of paintings by MFA candidate Judy Thompson. Bixby Hall Gallery. 10 a.m.-4 p.m. weekdays, 1-5 p.m. weekends. Through Dec. 20.

Music

Thursday, December 10

8 p.m. Department of Music Graduate Recital with Bonny Hough, pianist. The program includes the Beethoven Quintet for piano and winds, Opus 16, and works by Brahms. Graham Chapel. No charge.

Friday, December 11

8 p.m. Department of Music Graduate Recital with Bruce Carvell, tenor. Features "Songs of the Troubadours." Duncker Hall Lounge. No charge.

Sunday, December 13

8 p.m. Department of Music Concert. Singers and an instrumental ensemble will perform "Amphion Anglicus," a collection of odes and secular songs by John Blow (1649-1708). Directed by Peter Holman, WU visiting prof. in musicology, with Christine Armistead, soprano; Deborah Kalkbrenner, alto; Willard Cobb, tenor; and Edmund LeRoy, baritone.

Films

Thursday, December 10

7:30 and 9 p.m. WU Filmboard Series, "Fireman's Ball." Brown Hall Aud. \$2.

Friday, December 11

8 and 10 p.m. WU Filmboard Series, "Airplane." Brown Hall Aud. \$2. (Also Sat., Dec. 12, same times, Brown.)

Midnight. WU Filmboard Series, "Kentucky Fried Movie." Brown Hall Aud. \$1. (Also Sat., Dec. 12, midnight, Brown.)

Friday, December 18

7:30 and 9:45 p.m. WU Filmboard Series, "The Paper Chase." \$2. (Also Sat., Dec. 19, same times, Brown.)

Performing Arts

Friday, December 11

7 p.m. Edison Theatre Production, "Made in Japan." Manuel Alum presents a dance diary of his impressions of Japan. Edison Theatre. Tickets are \$6 general admission; \$4.50 for area students, WU faculty and staff; \$3 for WU students. Tickets available at Edison Theatre box office, 889-6543. (Also Sun., Dec. 13, 7 p.m., Edison.)

Saturday, December 12

8 p.m. Fall Student Dance Concert, a colorful variety of dance studies, choreographed and performed by WU dance students. Mallinckrodt Dance Studio. No charge. (Also 5 p.m., Sun., Dec. 13, and 8 p.m., Mon., Dec. 14, Dance Studio.)

Calendar Deadline

The deadline to submit items for the calendar period of Jan. 21-30, 1982 is Jan. 7. 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 Susan Kesling, calendar editor, Box 1142.