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W.U. RECORD

CDT Grant To Study U.S.— Technology Aid

The WU Center for Development Technology (CDT) has received a \$58,000 contract from the U.S. Agency for International Development to study "Appropriate Technology for Renewable Resource Utilization."

This study will investigate the potential role of U.S. institutions in helping developing countries to use appropriate, light-capital technology to help meet the basic needs of their people, according to Larry Iceman, assistant professor of Technology and Human Affairs.

The CDT study will be submitted for possible use by the U.S. delegation to the United Nations Conference on Science and Technology for Development to be held in Vienna, Austria, in August.

The U.S. delegation is charged with the responsibility of representing the "U.S. position" on the complex topic of the role of science and technology in international development and the transfer of technology from the "have" nations to the "have nots."

The WU study focuses on the potential of wind and solar energy and fuels such as wood and waste materials as energy sources. One of the principal objectives of the study is to evaluate the potential for technologies which may be adopted quickly and easily to the needs of developing nations.

"When we talk of cooking technology in the United States, for example, we think of gas or electric ranges or microwave ovens. In underdeveloped countries, building improved cookstoves made of mud is a major improvement over open fires," Iceman

(continued on page 3)

Good Management Lowers Prices, Increases Services at Coop

In a recent student survey comparing a number of campus services, particularly those used by South-40 residents, the Coop, the South-40 grocery store, was rated first for providing service.

The informal survey (one nonetheless taken seriously enough for the second highest rated service, the WU Bookstore, to claim in a sign hung in their window, "We May Be No. 2—But We Try Harder") was conducted by the Coop among South-40 residents. The survey reflects some measure of favorable customer response to the Coop's first full year of operation under a new management system, said manager Rob Westcott, a WU law student.

Among the benefits of the new system are longer hours of operation, 13 or 14 hours a day, seven days a week, and a greater emphasis on student services, including a new change machine, a \$10 reduction in the rental rate for refrigerators, increased check-cashing credit and continuation of the dry cleaning service.

The Coop's financial future is also brighter than ever. Financially troubled for years, the Coop hit a low spot in 1975 when it lost \$23,000. From July, 1977, to December, 1977, the last semester under old management, the Coop had a net loss on groceries of \$5450. In the second half of that fiscal year, after management changes, net income reached \$11,714, more than recouping the fall semester's loss and allowing for wide price cuts last summer. Net profit on groceries this semester is slightly over \$1000, a figure more in line with the Coop's non-profit orientation.

The increased level of efficiency which contributed to the last two semester's profits, is now being directed to lowering prices, a turnabout of which manager Westcott is particularly proud.

"In the last year we have been able to lower many prices to levels comparable to a supermarket," he said. "This is unique for a convenience store, particularly as prices everywhere are going up."

In a recently conducted product comparison with a National supermarket, the Coop's prices were lower on an 8-can pack of soda (by 30¢), pizza (by 10¢), and detergent (by

(continued on page 2)



Kathi Schantz, Coop cashier, stocks a candy bowl.



Herb Weitman

Shades of Siberia. Alan Tomkins, graduate student in psychology and law, with his samoyede, Xai, has found a sure way of getting to WU, come ice or snow.

Biology Librarian Galyon Is Honored With Gift, Sipping and Crunching Fete



Betty Galyon (at right), chief librarian of the biology library, gets a chuckle from a two-foot greeting card wishing her the best from her patrons.

Most people like to party, but nowadays those throwing the bash are having almost as much fun choosing strange and wondrous places in which to mix and mingle. So it is that local soirees have been held recently in chichi "Niemand," a geodesic dome (the Climatron), and not so long ago, in WU's biology library.

Normally a quite peaceful oasis so perfect for studying that frequently it's "SRO" for would-be "exam crammers," the biology library became a few weeks ago the scene of a joyous celebration honoring Betty Galyon, its chief librarian.

For Galyon, it was a complete surprise—planned by fellow conspirators Barbara Pickard, WU associate professor of biology, and Arlene Wasserman, one of 10 biology library student assistants. Those who came (and it was a full house) included just about everybody on campus who is a Galyon booster, including students, faculty and staff.

Pouring the punch was Robert E. Thach, professor of biology and chairman of the Department of Biology, with a corps of volunteers to proffer platters of cookies. The refreshments disappeared quickly, but not the assembled guests, who lingered to pay homage to the popular Galyon for being everybody in the Biology Department's favorite librarian. For that was the purpose of the party—to show Galyon just how much she is appreciated in a world where, all too frequently, those who do their jobs extremely well are taken for granted.

While all assembled sipped and crunched, Lewis Eime and Joe Ruzovich of the Biology Department Machine Shop arrived with a beautiful wall hanging and proceeded to hang it. A large (74 inches high by 43 inches wide) batik by Creve Coeur artist Catherine E. Milovich was not put up earlier because nobody, but nobody, could figure out how to separate Galyon from her books long enough to put it in place. A thing of beauty which gives every promise of being a joy forever, to paraphrase Keats, the hanging bears an inscription beneath it which reads, "Given in honor of Betty Galyon, superb librarian, by her patrons."

Printed on "the finest cotton broadcloth," according to Milovich, it is done in warm, rich earthy colors of turquoise and brown. Artist Milovich describes her work as "biomorphic. It depicts movement upward," she explained, and "reflects the ascension of the spirit or soul"—hence the title "Ascension."

Galyon also received a two-foot rectangular greeting card designed by the gifted Wasserman which spelled out in calligraphy the message "To Betty Galyon with best wishes from her

patrons."

A former Webster Groves junior high school teacher, she began her WU librarian career in the Olin Serials Department in 1966, and assumed her present position in 1973. She is working toward her degree in library science from the University of Missouri at Columbia.

Pickard, who serves as liaison between Olin Library and the biology faculty, stressed that "Everyone has long had a warm and friendly feeling for Betty. She's just fantastic and will not sleep until she has found whatever book or obscure journal a library user requests."

Galyon and the biology library moved into their new quarters in the Life Sciences Support Building, a satellite of Rebstock and the Adolphus Busch III Laboratory of Biology, three years ago. That involved transferring over 30,000 bound volumes, including some 15,000 bound journals, from the drab, un-airconditioned biology library digs in Rebstock to its present ultra-modern facilities. Galyon deserves to be appreciated—last year, she and her staff fielded over 2300 reference questions, supervised the circulation of over 6000 general books, and watched over almost 600 videotapes and films.

The new batik is the first piece of fine art to grace the walls of the biology library. Galyon hopes it won't be the last, for she herself noted in her 1978 annual report, "After three years in this new library, the walls are still bare and the unfinished look continues as there are no funds to purchase art work that was in the original plan to give the library a finished look." The funds for "Ascension" were donated by Galyon admirers, all of whom gave gladly to honor their own special woman of achievement.

(Dorothy Brockhoff)

Coop

(continued from page 1)

12¢). One brand of instant coffee, often a stick-it-to-you convenience store item, is priced 10¢ lower at the Coop than at National.

The Coop most notably exceeds National's prices in drug items and in carton cigarettes.

Westcott points to a number of innovations in the new management system which have kept costs down. In January, 1977, the concept of a full-time manager was abandoned and replaced with one part-time manager and a greater number of assistant managers. Also, stockers were eliminated, and the number of cashiers was reduced.

All assistant managers are assigned a particular area of the store which they are responsible for stocking, keeping track of inventory and buying. Assistant managers are also responsible for counting and recording cash register drawers and checking out goods when necessary. Several assistant managers specialize in bookkeeping, buying and inventory and collecting on bad checks.

Because it is a student-run business, the Coop must continually adjust to its workforce. High annual turnover of employees, all of whom are part-time workers, imposes formidable management problems. Westcott has been preparing several assistant managers to assume greater responsibility after he graduates this spring.

"The management organization itself is not as responsible for the Coop's current success as are the people working as assistant managers this year," said Westcott. "Several of them are already performing major tasks of running the store and we are working to ensure a smooth transition into next year."

In a recent annual report on the Coop, Westcott noted that in the spring of 1975, when the \$23,000 loss was acknowledged, the Coop implored students not to compare its prices with those of other stores. Today, however, Westcott has another message for the Coop's customers.

"We are still in the process of paying off debts incurred in 1975," he wrote, "and we are writing another letter to the student newspaper. This one, however, encourages students to compare the Coop's prices against any supermarket."

(Charlotte Boman)

Announcements

THE WU OBSERVATORY will be open from 9 a.m. to 12:30 p.m. Mon., Feb. 26, for the solar eclipse, weather permitting. The moon will begin to occult the sun at 9:29 a.m. Central Standard Time, reach maximum coverage, 75 per cent, at 10:44 a.m., and complete contact at 12:04 p.m. At the Observatory, two telescopes will be in use, one with a special filter and the other fitted with a reduced aperture to permit projection of a large solar image. Direct viewing of the sun or viewing with inadequate filters should be avoided. The Observatory is open to all members of the campus community. Enter through Crow Hall and follow the arrows, to the fourth floor.

THE ADVISORY COUNCIL of the WU Association will sponsor a tour of New Orleans March 24-26 to view the display of Pre-Columbian goldwork at the New Orleans Museum of Art. The tour will include a visit to the city's French Quarter. The fee of \$199 includes round trip via Delta, admission to the museum and lecture and two nights accommodations at the Provincial House. The fee is based on a minimum of 30. (Fee subject to increase in air fares.) For more information, call 889-6710.

WILLIAM GADDIS, WU Visiting Hurst Professor, will make two free public appearances on campus this month. He will offer some "Remarks on Writing," at 8 p.m., Thurs., Feb. 15, in Hurst Lounge, Duncker Hall. The following week, he will respond to readings of his work and comments by fellow WU writers William Gass, professor of philosophy, and Stanley Elkin, professor of

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English. This program, "William Gaddis, William Gass and Stanley Elkin in Concert" will be held at 8 p.m. on Tues., Feb. 20, in the Courtroom, Mudd Hall.

JOHN W. BENNETT, WU professor of anthropology, has been appointed to the Committee on Soil as a Resource of the Commission on Natural Resources, which is part of the National Research Council and the National Academy of Sciences. The committee is responsible for planning basic research on agricultural rehabilitation of degraded lands. Bennett will be particularly concerned with monitoring the social costs and implications of proposed research and policies.

J. TROUT RADER, professor of economics at WU, has been elected a Fellow of the Econometric Society. The organization is an international society for the advancement of economic theory in its relation to statistics and mathematics.

THE APPLICATION DEADLINE for the Albert Gallatin Fellowship in International Affairs for 1979-80 is March 6. The award provides for a year of study in international law, politics, economics, institutions or development at the Graduate Institute of International Studies, University of Geneva, Switzerland. American PhD candidates who have reached the dissertation stage are eligible. For further information, call Ext. 5958.

CDT (continued from page 1) said.

Iceman and Robert P. Morgan, chairman of the Department of Technology and Human Affairs and director of the CDT, are co-principal investigators for the study.

WU, through CDT, is the only university to have been selected to contribute two major studies as part of preparations for U.S. participation in the U.N. Conference.

WU Community Trims Down, Tones Up in Fitness Classes

Rand Rosenthal, director of two physical fitness courses on the WU campus, believes that fitness-related activities are becoming an integral part of lifestyles for young and old alike.

"It's just starting to change," Rosenthal said. WU's Sports and Recreation Department is witnessing tremendous increases in enrollments in both undergraduate and adult fitness programs. "People of all ages, both men and women, want to participate," Rosenthal said. "They're finding out that fitness-related activities require no special skill and can be enjoyed by everyone."

Rosenthal, who started his graduate training by taking courses in Stockholm and Montreal, learned a great deal about exercise physiology there and has applied this knowledge to the organizational format of his programs.

Currently, Rosenthal, assisted by Debbie Garland, assistant women's instructor, is supervising two classes of about 100 persons who participate three times a week from 7:30 to 8:30 a.m. and from 12:00 to 1:00 p.m. in Francis Gymnasium. Faculty, staff, graduate students and community people take the course. All those over 35 years of age must have the approval of their physician.

Emphasis is placed on cardiovascular endurance. The 30-minute jogging session is preceded by a carefully structured group exercise session in which flexibility and strength conditioning exercises are emphasized. Competition between participants is discouraged and individuals improve within their own capabilities.

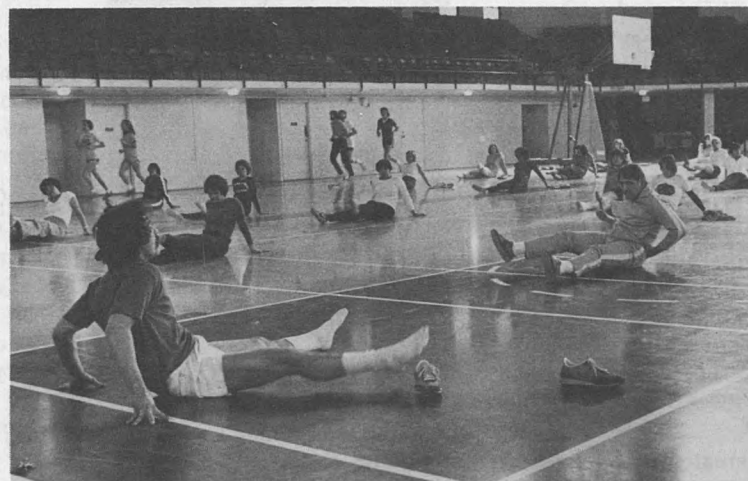
A pre- and post-fitness evaluation is given and recommended for those just starting the program. A graded treadmill test to determine cardiovascular improvement is given at the beginning and end of the course. The fitness evaluation also includes body composition measurements to determine percentages of body fat and muscle.

Research conducted by Rosenthal and R. John Young (visiting assistant professor last year) on a similar group last year showed significant decreases in heart rate and blood pressure responses following a 12-week exercise session. Also, significant decreases in per cent fat measurements were recorded.

The major objective of the program is for participants to learn and to enjoy the benefits of preventive health care by actively participating in fitness activities in a relaxed, non-competitive environment. "It's our hope that the students will continue their own exercise program after the course is over," said Rosenthal. "We want them to become habitual exercisers."

Although the class is filled, another session will probably start around the middle of May. All those interested in the program or the evaluation should call Rosenthal at Ext. 5140.

(King McElroy)



Rand Rosenthal (left), director of two physical fitness courses, puts his students through a series of exercises.

Calendar February 16-22

FRIDAY, FEBRUARY 16

8 p.m. School of Fine Arts

Lecture, with Paula Cooper, New York art dealer and WU visiting artist. Steinberg Auditorium.

8:30 p.m. Hillel Foundation

Lecture, "God Wrestling: The Process of Jewish Activism," Arthur Waskow, political scientist, activist and author. Hillel Foundation, 6300 Forsyth. Cosponsored by Concerned Jews, Network, Student Struggle for Soviet Jewry and United Jewish Appeal.

SATURDAY, FEBRUARY 17

7 p.m. Cosmopolitan International Student Club Cultural Show, with music and dance performances. Wydown Junior High School Auditorium, 6500 Wydown Blvd. Admission 50¢.

MONDAY, FEBRUARY 19

7:30 p.m. Black Studies Program

Lecture, "U.S.-China Normalization: Its Effects on Blacks and Workers," Robert F. Williams, consultant to the Center for Chinese Studies, U. of Mich. 215 Rebstock. Cosponsored by the U.S.-China People's Friendship Association.

TUESDAY, FEBRUARY 20

8 a.m. Center for the Study of Data Processing Three-Day Seminar

"Human Communication." Tuition \$250. For further information, call 889-5351.

4 p.m. Department of Chemistry

Seminar, "An Approach to the Total Synthesis of Verrucarol," James Rigby, prof. of chemistry, Columbia U. 311 McMillen Lab.

8 p.m. Department of English Reading and Discussion

"William Gaddis, William Gass and Stanley Elkin in Concert," reading from Gaddis's work. Gaddis is currently Visiting Hurst Professor at WU and is the author of *The Recognitions: A Novel*. Gass and Elkin, both authors, are professors of philosophy and English, respectively, at WU. Mudd Hall Courtroom.

WEDNESDAY, FEBRUARY 21

11 a.m. Academic Committee

Lecture, "Social Injustice in the Schools," Jonathan Kozol, author of *Death at an Early Age*. Graham Chapel. Cosponsored by the Department of Sociology and the Graduate Institute of Education.

4 p.m. International Development

Seminar, "Iran: A Case of Developmental Indigestion," Victor LeVine, WU prof. of

political science. Stix International House.

8 p.m. Zeta Phi Beta Sorority

Discussion on Lupus Erythematosus, a disease with arthritis-like symptoms. Wohl Center.

8 p.m. Department of Music

Composer Symposium. Robert Wykes, composer and WU prof. of music, and Chris Meister, WU graduate student in music, will discuss their recent compositions. Wykes' home, 6963 Amherst. For directions, call Tom Hamilton at Ext. 5528.

THURSDAY, FEBRUARY 22

3:30 p.m. Center for the Study of

American Business Public Choice Workshop, "Reflections on Bureaucracy and Representative Government." William Niskanen, Ford Motor Co. 300 Eliot.

8 p.m. Department of Electrical Engineering Seminar

"Microwave FET's, What Next?" Charles A. Liechti, Hewlett Packard Research Labs, Palo Alto, Calif. 100 Cupples II. Cosponsored by the IEEE St. Louis Joint Chapter on Microwave Theory and Techniques, Electron Devices, and Antennae and Propagation.

Music

FRIDAY, FEBRUARY 16

8 p.m. Department of Music

Faculty Voice Recital, with Irene Gubrud, soprano, and WU artist-in-residence. Gubrud will perform songs and concertarias by Mozart, Schonberg, Dvorak, Satie, Obrados and Strauss. Nancy Revzen, piano accompanist. Graham Chapel.



Irene Gubrud

SATURDAY, FEBRUARY 17

8 p.m. Student Union Concert

Committee Concert, with Steve Goodman, singer and guitarist. Graham Chapel. Advance admission \$6.50; \$5.50 for WU

students with SU card; \$7 for all at the door. Tickets available at Edison Theatre Box Office, both Streetside Records stores, and the UMSL and St. Louis U. Box Offices.

TUESDAY, FEBRUARY 20

8 p.m. St. Louis Guitar Guild

Concert, "Music for Lute and Guitar," with Frank Bliven soloist. Bliven will play Renaissance and Baroque lutes and Baroque and classical guitars. Women's Bldg. Lounge. Admission \$2.

Films

FRIDAY, FEBRUARY 16

7:30 and 9:45 p.m. WU Filmboard Series, "American Graffiti." Brown Hall Theatre. Admission \$1.50. (Also Sat., Feb. 17, same times, Brown; and Sun., Feb. 18, 8 p.m., Wohl Center.)

12 midnight. WU Filmboard

Series, "A Piece of the Action." Brown Hall Theatre. Admission \$1. (Also Sat., Feb. 17, same times, Brown.)

WEDNESDAY, FEBRUARY 21

7:30 p.m. Great Directors Film Series, "Tristana," by Spanish director Luis Bunuel. Brown Hall Theatre. Admission \$1.50. (Also Thurs., Feb. 22, 9:30 p.m., Brown.)

9:15 p.m. Great Directors Film

Series, "Simon of the Desert," "Un Chien Andalou" and "Land Without Blood," by Spanish director Luis Bunuel. Brown Hall Theatre. Admission \$1.50. (Also Thurs., Feb. 22, 7:30 p.m., Brown.)

Exhibitions

"Palladio in America," an exhibit of models, photomurals and books describing the works of Andrea Palladio, 16th-century Italian architect, and his influence on 18th- and 19th-century American architecture. Eleven meticulously crafted wooden models of some of Palladio's designs and photomurals and panels documenting the dissemination of Palladio's theories in the United States will be featured in the exhibit. Sponsored by the WU Gallery of Art, the WU School of Architecture and the Missouri Arts Council. WU Gallery of Art, Steinberg Hall, 9 a.m.-5 p.m., Mon.-Fri.; 1-5 p.m., Sat., Sun. Through March 25.

"Deaf Education to the Mid-19th Century," an exhibit of books from the Central Institute for the Deaf's Max A. Goldstein

Collection in Speech and Hearing, illustrating the direction of deaf education from the early 17th to the mid-19th centuries. WU Medical School Library Annex, 615 S. Taylor. 8:30 a.m.-5 p.m., Mon.-Fri. Through March 15.



Richard Hunt

"Richard Hunt—Three Places at

One Time," a tripartite exhibit of the works of sculptor Richard Hunt. Distinguished Visiting Louis D. Beaumont Professor of Art at WU. The show will be on display at the Bixby Gallery and the Washington University Gallery of Art, both on the University campus, and at Laumeier Sculpture Park. The show is jointly sponsored by the St. Louis County Dept. of Parks and Recreation, the Friends of Laumeier, the Washington University School of Fine Arts and Gallery of Art and the Missouri Arts Council. WU Gallery of Art: 9 a.m.-5 p.m., Mon.-Fri.; 1-5 p.m., Sat., Sun. Through March 18. Bixby Hall Gallery: 9 a.m.-5 p.m., Mon.-Fri.; Through March 16. Laumeier Sculpture Park, 12580 Rott Rd., 10 a.m.-5 p.m., Wed.-Sat.; 12 noon-5 p.m., Sun. Through April 1.

"Landmarks Associated with

Blacks in St. Louis," an exhibit of photographs and information showing historically important black St. Louis institutions such as Homer G. Phillips Hospital, the Annie Malone Children's Home and the St. Louis *Argus* newspaper building. Olin Library, level three. 8 a.m.-12 midnight, Mon.-Thurs.; 8 a.m.-8 p.m., Fri.; 9 a.m.-10 p.m., Sat.; and 11 a.m.-12 midnight, Sun. Through March 2.

Sports

THURSDAY, FEBRUARY 22

7:30 p.m. Women's Basketball, WU vs. Maryville College. Francis Field House.