3-27-1975

Washington University Record, March 27, 1975

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WU Students Design Buildings Powered By Non-Polluting Energy

By King McElroy

Conservationists have talked about homes powered by the sun, the wind or water, but not many specific designs for homes powered by the sun, the wind or water have been produced.

Students of G. Z. Brown, assistant professor of architecture, have been delving into many possibilities of alternate energy sources. They began their designs with homes and recently finished designing a new, hypothetical lighthouse for the Cape Hatteras area in North Carolina, after securing specifications on the existing lighthouse there.

Paul Zaferiou designed a lighthouse in which solar energy is collected in a 190-foot tower. The tower is rotated so that solar collectors can follow the sun. The sun starts a steam turbine which in turn activates a generator which recharges a number of batteries.

Four other students built a model of an Arizona residence. The house is located in an area which got very little rainfall; but it does have an intermittent stream near by. The students, Ken Mackesson, David Mason, Randy Fielding and Rod Ringwald, recycle water taken from the stream and use it to water a garden in a greenhouse.

Bob Clough powers his lighthouse design with three giant windmills, each of which is 60 feet in diameter. The windmills power the generators which in turn start the electricity.

Robin Ringwald uses the power of the tide in his lighthouse model. He catches the water at high tide and allows it to flow over a turbine which again activates generators.

Professor Brown pointed out that research into these unusual areas will prepare students for the future. "Right now," he said, "a lot of people are too conservative to build these structures, but they eventually will be constructed. It's just a matter of time. Of course, the installation cost is high but over the long haul alternate energy sources will pay back the original investment."

Campus Succumbs To Spring Fever

Whether it took the form of a game of frisbee in the Quad, a nap under a tree, or an attempt to finish a calculus lesson lodged under one of Ridgley Hall's arches while the local dog pack frisked about, the campus community celebrated spring's balmy arrival last week. Like so many budding crocuses, faculty, students and staff vacated wintery retreats to turn face to the sun.

Although the conscientious attempted to carry on as scheduled or to compromise with out-of-doors classes and studying, the more free-spirited abandoned entirely their academic obligations to fly kites or play tennis, softball and wiffle ball. (An "unidentified" gray-haired visiting professor from Syracuse, N.Y., was also seen leaving his office in Sever Institute early Friday with a bag of golf clubs.)

Odes to spring sounded in the form of bluegrass on the Quad and rock at the dorms counterpointed by a lone oboe player's classical themes.

The most popular pursuits, however, may have been those inspired by that characteristic listless laziness of spring—talking, lounging and general daydreaming whenever sun predominated. "You have to take advantage of the weather as it comes because tomorrow it might snow," rationalized one barefoot member of Beta Theta Pi, soaking up sun on a couch outside.

Academic Integrity, Faculty Obligations Proposal Approved

A proposal on "Student Academic Integrity and Faculty Responsibilities" was approved by the WU Faculty of Arts and Sciences Friday, March 21.

A central feature of the proposal, also ratified by the Council of Students of Arts and Sciences, is the establishment of a Committee on Academic Integrity.

Professor Richard Dawson, chairman of the Faculty Council, said that "The proposal was initiated in the Faculty's Curriculum Committee last Fall in response to growing concern from faculty and students over an increase in student plagiarism and cheating. It was felt necessary to set up formal machinery to deal with student academic dishonesty and to reaffirm faculty responsibilities," Dawson said.

"The increased concern with student academic dishonesty and faculty responsibilities at Washington University is a reflection of a national trend," Dawson continued. "The concern stems from an increased sense of competition as students become more career-oriented. A student may envision his future going down the drain if he fails one class or if other students cheat because exams aren't properly policed by faculty."

Complaints may be brought to the Committee by a faculty member against a student, by a student against another student, or by a student against a faculty member who has charged him with academic dishonesty, but refuses to submit the matter to the Committee.

The document also outlines existing channels for students to bring complaints against faculty for neglecting their responsibilities. It reaffirms these responsibilities in five areas: grading, testing and evaluation; meeting regularly scheduled classes; following course descriptions; reading period and final examination schedules, and accessibility of faculty. Students may bring their complaints to the individual instructors, College of Arts and Sciences Academic

(Continued on page 2)
New Medical Uses for Silver Compounds
Seen by Washington University Researcher

By Sharon Murphy
(WU Medical School Newswriter)

Physicians and dentists now use more than three million ounces of silver annually in the treatment of various medical problems.

One of the world's leading experts on the role of silver in medicine is Harry Margraf, research assistant professor of surgery at Washington University's School of Medicine, and associate of the Jewish Hospital of St. Louis.

Born in Germany in 1918, Margraf came to the United States in 1947 after receiving the D.Sc. degree (equivalent to Ph.D.) at Politecnichum Milan, Italy. Two years later he joined the Washington University faculty. He became interested in silver in the early '60s as a member of a University research team which was studying the treatment of burns under the direction of the late Dr. Carl Moyer, professor and head of surgery.

"In our search for a suitable topical antiseptic—medication not taken internally—we found silver nitrate the most effective agent," he said. However, the treatment was sometimes painful and had side effects. After extensive testing, a silver nitrate solution diluted to one-half per cent was proven to be painless, yet effective in burn treatment.

"As a result of this discovery," Margraf said, "a patient with up to 70 per cent of his body burned now has a good chance for survival. Previously, a person burned in excess of 30 per cent was not expected to live."

Margraf explained that the medical uses of silver are not new. "Medical literature confirms that the antiseptic properties of silver have been known for centuries."

"The ancient Greeks and Romans used silver containers to keep liquid fresh. American settlers moving west purified swimming pool water; to treat stomach ulcers, bladder infections, gonorrhea and other venereal diseases; and to purify public water supply."

"Toward the end of the 19th century, numerous medical uses were developed, many of which are no longer used. So actually we are just rediscovering the extensive medical value of silver," Margraf added.

After the success of silver nitrate in burn treatment, Margraf felt there were other silver compounds which might be more effective.

"Silver nitrate leaves much to be desired. It severely disturbs the balance of the body salts. It is applied in a thick cumbersome dressing, and it stains everything it touches," he explained. So

Harry Margraf checks photographs which show the effect of a silver compound cream on burn patients.

(Phofo by Tuink Cherrick)

with three goals in mind (to improve methods of application, reduce discoloration and increase efficiency) Margraf, along with fellow members of the Department of Surgery, began testing other silver compounds. They found that many have limited use in medicine while at least 25 are highly suitable. Margraf has received patents on seven silver compounds.

"Our experience with burns, skin ulcers and small wounds indicate that silver is the most effective all-around antiseptic yet developed," he continued. "Slow-release silver compounds can control the bacteria and fungi that cause dandruff, psoriasis and other scalp infections."

Because silver can be inserted in the body and left there indefinitely with complete safety, he explained, it is used to keep broken bones in place and to repair skull injuries. Margraf pointed out that, in experiments with animals, injections of a silver compound may significantly reduce the tendency of the body to reject transplanted organs.

The above examples are just a few of the possible uses of silver. Margraf feels many more applications will be developed. He believes that in the near future silver compounds will be used to render bandages self-sterilizing; to replace chlorine as the standard chemical for purifying swimming pool water; to treat stomach ulcers, bladder infections, gonorrhea and other venereal diseases; and to purify public water supply.

Integrity

(Continued from page 1)

Ombudsman, departmental chairpersons, Office of the Dean of the College of Arts and Sciences, and the Dean of the Faculty of Arts and Sciences.

The Committee on Academic Integrity will consist of two faculty members named by the Faculty Council, two student members named by the Council of Students of Arts and Sciences, and an assistant dean of the College. Members will serve two-year terms.

If the majority of the Committee members find a complaint proven, they will issue a formal reprimand to the student complained against which will be placed in his academic files in the Dean’s Office until his graduation. The Committee may refer the matter to the University Judicial Board, or it may recommend to the Dean of the College that the student withdraw from the course and be given a grade of No Credit, or may recommend a lesser penalty after consultation with the faculty member responsible for the course. Both the complainant and the person complained against may appeal the Committee’s action to the Judicial Board.

The proposal also charges the Committee to draw up a statement on the nature and consequences of academic dishonesty and distribute it to faculty and students. It also requests the English Department to include material on proper documentation and standards of academic integrity in sections of English Composition 100. Dawson said that this course was singled out "because historically one of the responsibilities of a freshman English class has been to teach proper documentation in the writing of research papers."

The entire proposal on Student Academic Integrity and Faculty Responsibilities will be printed each year in the course listings booklet.

Dental School Commencement Ceremonies Held March 26

Graduation ceremonies were held Wednesday, March 26, for 48 students of the WU School of Dental Medicine. The graduation address at Graham Chapel was given by Dr. Alvin L. Morris, executive director of the Association for Academic Health Centers in Washington D.C.

With the Dental School changing from a four-year to a three-year curriculum, the acceleration of study has resulted in the present graduating class completing its studies in just over three-and-one-half years. Another class will be graduated in December, the first time since 1943 that the School has graduated more than one class in a year.
"Women in Politics" Topic of First Public Affairs Seminar

Three prominent women politicians, Sue Shear, Mary Stolar, and Betty Van Uum, have been named the first Visiting Fellows in the newly-established Center for the Study of Public Affairs at WU. They will lead a seminar and discussion beginning at 4 p.m. Friday, March 28 in the second floor lounge of Eliot Hall.

Theme of the event will be "Women in Politics" with particular emphasis on the local and state scene. The three women, all of them elected to public office, will discuss the kind of education they believe most suitable for those who aspire to enter public service.

All three women participants are Democrats. Ms Shear is Missouri State Representative from District 76. Ms Stolar is a St. Louis City Alderwoman from the 25th Ward (central west end). Ms Van Uum recently won election to the St. Louis County Council from the Third District.

Following the afternoon seminar, a buffet will be served and then the speakers will join in a discussion at 8 p.m. with those attending the special event. The program is open only to WU students and faculty in political science.

The March 28th symposium and discussion is being arranged by Robert H. Salisbury, director of the new Center, and associate director Linda Ellsworth. The Center was established to bring together the resources of academic political science programs and professionals in the public sector.

APPOINTMENTS

R. JERRAD KING, real estate consultant and former vice president and director of the St. Louis office of Real Estate Research Corp., has been appointed executive director of the WU Medical Center Redevelopment Corp. King, whose office will be at 4390 West Pine Blvd., will be responsible for the direction of the neighborhood rehabilitation program, with the assistance of Capitol Land Co., managing agent for the Redevelopment Corp., and the program planners, Team Four, Inc.

The WU Record is published weekly during the academic year by the Office of Information, director, Roger Signor; editor, Kathy Pearson; contributing editors, Dorothy Brockhoff, King McElroy; calendar editor, Anne Hallett. Photographs by Herb Weitman, Rick Levine and Gail Cisna. Address all communications to the editor, Box 1142.

Selma Jeanne Cohen, nationally-known dance critic, author and historian, was a recent guest lecturer on campus. Her visit was sponsored by the University's School of Fine Arts and Performing Arts Area. A former New York Times critic, Cohen is currently editor of Dance Perspectives magazine.

RECOGNITIONS

FLORENCE MOOG, professor of biology, has been appointed Charles Rebstock Professor of Biology. The honorary professorship was established in 1926 in honor of St. Louis philanthropist Charles Rebstock. Rebstock contributed $1,000,000 in 1925 to WU for construction and maintenance of Rebstock Hall.

Three professors have held the title previously: Caswell Grave, 1926-1940; Francis O. Schmitt, Feb. 1940-June 1940; and Viktor Hamburger, 1959-1969. The professorship was awarded to Moog in recognition of her contributions to scientific research and to teaching. She has taught undergraduate and graduate students and done research on the physiological and biochemical aspects of vertebrate development for 31 years in Washington University's Biology Department.

DR. HUGH CHAPLIN, JR., Kountz Professor of Preventive Medicine and professor of medicine, was among 30 faculty members of U.S. medical schools to be awarded a Josiah Macy, Jr., Foundation Faculty Scholar Award. The award, given for academic excellence in medicine, will provide Chaplin with the opportunity to take a year's sabbatical. He will engage in research in immunohematology at St. Mary's Hospital Medical School in London, England.

ERVIN Y. RODIN, associate professor of systems science and mathematics in the WU School of Engineering, is the founding editor of a new quarterly publication with world-wide circulation entitled Computers & Mathematics With Applications. This international journal, published by Pergamon Press, has an editorial board of more than 40 experts both here and abroad.

ANNOUNCEMENTS

The Woman's Club and Men's Faculty Club of WU will hold their annual dinner dance at Whittemore House on Saturday, April 5. The Bicentennial Ball will begin with cocktails at 6:30 p.m. Dinner will be served at 7:30 p.m. Music will be provided by the George Johnson Orchestra. Cost of the ball will be $17.00 per couple for members, $20.00 per couple for non-members and $8.50 for singles. Reservations should be sent by March 28 to Mrs. Carl A. Dauten, 720 Cranbrook Drive, Kirkwood, Mo. 63122, phone 966-0363.

WHILE IT WAS ACCURATELY REPORTED in the March 20 WU Record that the University's single and double room rates for 1975-76 will remain the same as this year's rates, the costs should have been quoted as $880 for a single and $780 for a double, instead of $830 and $730, respectively.

A SIX-WEEK COURSE in sign language for the deaf will be taught on Tuesdays and Fridays beginning March 28 by Mrs. Dorothy McQuerry, formerly associated with the St. Louis Speech and Hearing Center. The free course will be held at 12:15 p.m. in Room 302 Mallinckrodt. Interested persons should call the Office of Campus Programming, ext. 4998, for details.

THE UNITED NATIONS has named 1975 International Women's Year. Persons interested in planning events to celebrate this year on the WU campus or in the metropolitan area may call Susan Kopelman Cornillon, in the Office of Campus Programming, 863-0100, ext. 4542.

INDIVIDUAL GRANTS of approximately $2000 each will be available this summer to post-doctoral scholars in the social sciences and related disciplines. The awards will enable those who qualify to spend several months in Germany examining data sources, discussing their interests with German scholars and perhaps developing comparative research efforts. The program is sponsored by the Council for European Studies in conjunction with the German Academic Exchange Office. Deadline for applications is April 1. For further information contact Professor Arnold J. Heidenheimer, Political Science Department, Box 1063, 863-0100, ext. 4270 or 4945.
Calendar
March 27-April 2

THURSDAY, MARCH 27

SUNDAY, MARCH 30
11:30 a.m. Campus Y's Car Rallye, "The Resurrection Rallye," prizes awarded to winners, $1 registration fee per car. Northeast parking lot in front of Brookings. For further information, call Mark at 994-3167 or David at 725-9845.
7:30 p.m. Association of Black Students, Special Education Services and the Black Studies Department Six-Day Martin Luther King Symposium, "Legacy of a Dream: An Analysis of the Status of Black People Today." Open with program of Black Music, with WU Black Composers Repertory Choir and Shades of Blackness, Graham Chapel. For more information on specific events, call ext. 4913.
MONDAY, MARCH 31
12 noon to 1 p.m. Five-day Computing Facilities Seminar, "Using the Calcomp Plotter," David G. Weibel, WU Computing Facilities. 101 Cupples II.
4 p.m. Division of Biology & Biometrical Science Lecture, "Cell Surface Lectins Synthesized by Differentiating Slime Molds: Role in Cellular Recognition," Dr. Samuel H. Barodes, Prof. of Psychiatry, U. of California, San Diego. Moore Auditorium.
4-9 p.m. Two-Session School of Continuing Education and Missouri Committee for Education and Humanities Seminar, "Law-Related Education and the Humanities," concerning teaching young children the principles of law, $4.50 for two dinners. 2nd session, April 14. For further information on registration, call Marilyn Pryor, ext. 4261.
7 p.m. Martin Luther King Symposium Seminar, "Black Graduate Students: Is the Dream Still Theirs?" Wohl Formal Lounge.
TUESDAY, APRIL 1
2:30 p.m. Martin Luther King Symposium Seminar, "Protectors of the Dream," with St. Louis Black Lawyers. Wohl Formal Lounge.
8 p.m. Center for Archaeometry Lecture, "Six Matched Hollow Gold Jaguars from Peru's Early Horizon: Metallurgical Analysis," Heather Lechtman, Research Associate in Science, Pennsylvania State University. Steinberg Hall, lower gallery.
WEDNESDAY, APRIL 2
7:30 p.m. Department of Physical Education Seminar, "The Child Today: The Significance of Motor Development," with panelists Ms Helen Hartwig, physical education teacher, University City, Mo; Helen Manley, retired physical education expert, and Dr. William Weinberg, Assoc. Professor of Pediatrics at WU. Women's Building Lounge.

FRIDAY, MARCH 28
8 p.m. Drama, Thysius production of The Mid Woman of Charton, directed by Jean Giraudoux, directed by Laurie E. Lang. Also March 29 and 30. Drama Studio, Mallinckroit.

MUSIC
SATURDAY, MARCH 29
8 p.m. WU Feminist Coalition/Tomato Production Concert, "Womanmusic," with the Berkeley Women's Music Collective playing a mixture of electric, blue grass, rock country, jazz, folk and classical styles. Donations $2. Women's Building Lounge.
TUESDAY, APRIL 1
10 a.m. and 11 a.m. Gerry Mulligan Jazz Workshop, with instrumental instruction at 10 a.m. and lecture demonstration at 11 a.m. Sponsored by the Missouri State Council on the Arts. Edison Theater.
8 p.m. Junior Violin Recital by Adrienne Gammel, sponsored by the WU Department of Music, Graham Chapel.
WEDNESDAY, APRIL 2
8-10 p.m. Missouri Friends of the Folk Arts (WU Chapter) Workshop, "Collecting and Recreating Ballads, Tunes and Dance," with Kathleen Restle and Dillon Bustin. Open environment for performers and audiences. Women's Building Lounge.

EXHIBITIONS
"A la Pintura," an exhibition of work by the American artist Robert Motherwell, including trial proofs for the book of his prints in addition to works of art on loan from The Nancy Singer Gallery, The Greenberg Gallery, Mr. and Mrs. Jerry Leavitt and the St. Louis Art Museum. Steinberg Hall, lower gallery. Monday-Friday 9 a.m.-5 p.m.; Saturdays 10 a.m.-4 p.m.; Sundays 1-5 p.m.
"Performing Arts Revisited," a display of memorabilia covering the history of the WU Performing Arts Area from 1900 to the present. Olin Library, Level Three. Monday-Thursday 8 a.m.-10 p.m.; Friday 8 a.m.-7 p.m.; Saturday 9 a.m.-10 p.m.; Sunday 11 a.m.-7 p.m. Opens March 31.

Literary Manuscripts Exhibit, illustrating relationship of authors, editors and publishers working together to achieve publication of a literary work. Olin Library, fifth level. Monday-Friday 8:30 a.m.-5 p.m.

The Visual and Kine9thetic Art of Dance," a collection of 39 photographs of students and faculty members in the Performing Arts Area's Dance Division, by David Henschel, St. Louis photographer. The exhibition is the result of three months of intensive study of dancers in the Edison Dance Studio. Mallinckroit Center, Lower Gallery. 7 a.m.-midnight daily.

PERFORMING ARTS
FRIDAY, MARCH 28
8 p.m. Tennis, WU vs. Eastern Illinois U. At Charleston, Ill.
3:30 p.m. Baseball, WU vs. Missouri Baptist College. At Utz Field, WU.
4 p.m. Track, SIU-Edwardsville. Dual. Edwardsville, Ill.
WEDNESDAY, APRIL 2
3 p.m. Baseball, WU vs. SIU-Edwardsville. At Utz Field, WU.