Jones captures a symphony of insect beans. Jones wires tiny contact mikes into a system, and by amplifying their sounds, speakers. Each insect has its own sound trait in progress.

“Ensemble” — an environmental sculpture — is a marriage between the audio and the visual, a work of art. Jones' acoustic sculptures ply the ear, urging the viewer beyond physicality.

**An ear for art**

Jones' phonic sculptures ply the ear, urging the viewer beyond physicality.
Tyson Center: 
health spa for nature's outcasts

WU's Tyson Research Center, outside St. Louis, has grown into a health spa for some of the world's least liked animals. For some of these outcasts, the 2,000-acre, former World War II ammunition dump has become a last resort.

The center conducts intensive research, rehabilitation, propagation and educational programs aimed at the likes of red wolves, bats, owls, coyotes, birds of prey and even screeching insects. Admittedly, such animals rank among the oddest people can handle the kinds of things that many of these fauna are endangered.

"These animals perform noble functions in nature," explained Tyson's director Richard Coles. "The natural system is a kind of fabric made from the threads of many species. If one species is removed, a tiny rip forms in the fabric. The question is, how many rips can the fabric withstand?"

Tyson came into existence in 1963, when the federal government transferred its former munitions dump — complete with 52 large underground bunkers — to WU. The site also features two large warehouses, various "temporary" army building and an encircling fence.

The research center is also one of approximately 100 cooperators biological field stations, each an in-the-field showcase for the environment of a region.

Researchers have found that some of Tyson's characteristics offer intriguing possibilities. For example, Coles has turned a bunker into a bat cave by redirecting natural spring water across the floor of the structure. Irrigated in this manner, the bunker illustrates many of the characteristics of a bat cave, including a stable temperature and high humidity.

Once he had established comfortable living quarters for a bat, Coles began transferring little brown bats from their hibernation sites within caves in the Meramec River Basin. Little brown bats, it must be noted, are quite common, adaptable living quarters for a bat, Coles believes.

"We've lost the aesthetic experience for much of nature," Coles said. "We've lost an animal species," Coles said. "We've lost some genetic material that would be useful in the evolutionary process in unforeseen ways. We've lost the aesthetic experience for generations of people. And we've lost a little more understanding of wildlife behavior, ecology and physiology, which might have led us to appreciate the beauty of the entire system."

One of the most successful projects now operating at Tyson is the Raptor Rehabilitation and Propagation Program (RRPP), a program independent from WU and under the direction of Walter Crawford.

What began four years ago in Crawford's back yard as a field hospital for several banded birds has now grown into the Midwest's largest center for raptor rehabilitation and breeding. Now operating out at Tyson, Crawford directs 20 volunteers who care for some 120 birds of prey.

One of RRPP's main objectives is saving the barn owl, which has reached a state of near extinction in Missouri and elsewhere. RRPP has 20 barn owls paired for mating, and last fall it successfully placed 40 offspring in the wild in another project, RRPP is tracking bald eagle migration up and down the Mississippi River.

Another free spirit that often comes as odds with humans is the wolf, which is becoming increasingly rare.

On April 23, a small but important event eased that situation, if ever so slightly. Four red wolf puppies were born on the Tyson land used by the Wild Canid Survival and Research Center — also known as the Wolf Sanctuary.

That litter brings the total number of red wolves in the United States to only 49. Placing that number in perspective, consider the number of the much publicized endangered bird, the whooping crane, is well over 75.

The Wolf Sanctuary maintains some 22 cubs in several fenced-in patches of land in the central area of Tyson. Among the animals kept here are red wolves, Iranian wolves, Mexican gray wolves and coyotes.

"We've all lost something when we lose an animal species," Coles said. "We've lost some genetic material that might have been useful in the evolutionary process in unforeseen ways. We've lost the aesthetic experience for generations of people. And we've lost a little more understanding of wildlife behavior, ecology and physiology, which might have led us to appreciate the beauty of the entire system."

$38 million Mallinckrodt bequest makes '81-'82 second-highest giving year

George H. Capps, chairman of the WU board of trustees and development committee, announced that the University received $37,219,873 in gifts and grants from private sources for academic year 1981-1982.

Capps said that the extraordinary gift total resulted from a record bequest of $38 million from a trust fund established by the late Edward Mallinckrodt, Jr., in 1967.

1981-82 was the second-highest year for private giving in the University's history, exceeded only by 1977 when the Danforth Foundation challenge grant was realized, he said.

Chancellor William H. Danforth expressed gratitude to the private sector for its support. "The steadily mounting reputation of Washington University as a great academic and research institution has been responsible for this support, and we must continue our hard work to maintain our record of excellence," he said.

Danforth pointed out that signing of research contracts with Mallinckrodt, Inc., and the Monsanto Company broke new ground in relations between WU and industry, and established patterns that may be helpful to other universities and corporations dealing with similar issues. These research grants are not counted as gift support, he added.

Danforth reported that the University received $5,277,243 from alumni, parents and other individuals; $4,054,978 from foundations; $3,852,311 from corporations; $5,818,159 from other organizations; and $40,217,182 from bequests.

Herbert F. Hitzerman, Jr., vice chancellor for university relations, said that the University's alumni again provided generous financial support by contributing $2,927,251. Over 17,000 alumni or 26 percent of those solicited participated in the fund drive. The alumni annual fund drive, chaired by Wilfred Konneker, reached $4,140,147 and surpassed all previous annual fund totals.

Owen Sexton

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Jones takes the theme of "Live Insect Ensemble" to whimsical conclusion with "A Selection of Cages" he said. "A Selection of Cages" was an anthological collection of works by important visual artists who have used sounds. Besides Jones, the exhibit featured such artists as Picasso and Duchamp. Jones has exhibited in at least 150 important group exhibitions, some 20 individual exhibitions and has works contained in at least 20 permanent public collections.

In his art work, Jones is tampering with reality and, by so doing, taking us places we haven't been. In his view, this transportation by sense is what art is all about — getting to the unknown, the unexperienced.

"Why not consider what we haven't been?" asks Jones. "It appears to me that we still need to investigate circumstances that are not real. We should explore where we haven't been, where we are left with at least a question — to tread upon the unknown — the indescribable. Swing higher each time over the cliff — reach out further along the branch. Why not consider what we haven't been?"

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Editor: Charlotte Boman (Ext. 5231)
Calendar Editor: King McElroy (Ext. 5239)
Diverse talents of freshman class converge on academic excellence

Members of this year's freshman class came to WU from north and south, near and far, bringing with them interests and experiences as diverse as human nature itself. They are by definition a diverse group.

Although director of admissions William Turner says this class is not vastly different from previous classes, a quick glance at some of their high school activities makes one wonder if this is so.

Musicianship is a strong value of the class of 1986. There are 51 pianists, 21 vocalists, seven violinists, five cellists, four oboe players, three bassoonists, two English horn players, and a string bassist enough to fill a good orchestra, if somewhat unbalanced to keyboards.

And there are more than a few good athletes, including high school team captains in badminton, baseball, basketball, bowling, cheerleading, cross-country, ice hockey, football, golf, gymnastics, soccer, swimming, track and wrestling.

One young man, August Brooks, was a costume's assistant in Marin County, Calif. Stowe Harris, a Minneapolis native, is an accomplished juggler of knives, torches, plungers, clubs, and rings, who has appeared in parades and performed with the Minnesota Opera.

Of course there are also the predictable types — the corn detaster, pie-eating contest co-champion, martial arts instructor, oil field roughneck, ranch hand, weather observer for the National Weather Service, restorer of rare books, and race horse groom.

On the surface, this group appears to have little in common except for one quality they all share — academic talent.

The class boasts 285 National Honor Society members, including 26 presidents, 22 vice presidents and 19 secretaries-treasurers. Fifty-seven percent were ranked in the top 10 percent of their high school classes, and about 100 are National Merit Scholars.

With 1043 members — 57 percent men and 43 percent women — the class is a little smaller than usual, Turner said. They are enrolled in the following disciplines: 622, College of Arts and Sciences; 206, School of Engineering and Applied Science; 97, School of Business and Public Administration; 67, School of Fine Arts; and 51, School of Architecture.

The class was chosen from a pool of more than 4500 applicants.

Malic named assistant dean for business facilities planning

Lawrence M. Malic has been appointed assistant dean for facilities planning and development of WU's School of Business and Public Administration. He served previously with WU's Urban Research and Design Center since 1979 and as an affiliate assistant professor, part-time, School of Architecture, since 1981. Malic's new appointment, effective Oct. 1, is for 12 months and is renewable.

Malic will serve as the business school's primary representative in the further planning and construction of its new building, according to Dean Robert L. Vinr, Jr.

He graduated magna cum laude with honors in his major, design of the environment, earning a BA from the University of Pennsylvania. He holds a master of architecture degree from its Graduate School of Fine Arts. Malic taught at WU's Summer School in 1974 and 1975.

Campus Notes

A WU School of Medicine researcher has been elected vice president of the Missouri Chapter of the American College of Surgeons.

Charles B. Anderson, professor in the Department of Surgery, was elected to a one-year term at the association's 15th annual meeting in Kansas City. He has served as secretary-treasurer, committee member and chairman of the education program committee for the 55th annual chapter.

Anderson also heads the renal transplantation team at Barnes Hospital and is a surgical consultant at Jewish Hospital.

Rodey Busza, assistant professor of earth and planetary science, will discuss the origin of deep sea fragmental volcanic rocks at the annual meeting of the Geological Society of America Oct. 17-21 in New Orleans.

These rocks, the product of explosive eruptions, have been dredged from the ocean floor.

Eruptions from Mount St. Helens, the El Chichon volcano in southeast Mexico and other volcanos also will be studied at the meeting.

Ronald L. Carlson, professor of law, spoke on "How to Deliver a Dynamic Final Argument" at a Trial Practice Skills Conference Sept. 10 in Washington, D.C., sponsored by the Council on Federal Litigation. The program was designed to improve the skills of an attorney in both trial and appellate practice. Other conference speakers were attorney F. Lee Bailey and Judge Robinson O. Everett, U.S. Court of Military Appeals.

Crow observatory open on clear nights

The WU Observatory, located atop Crow Hall, is open to the public at no charge on clear weekday evenings from 7:30 to 10 p.m. The lenses for the Observatory's telescope date to the year 1859, six years before the founding of the University. The planets Mars and Jupiter, as well as numerous "deep-sky" objects, are currently visible. For more information or to verify that the observatory is open on a given night, call 889-OBSS (889-6278) during the evenings.

Observe fire prevention week with awareness

Oct. 3-9 is National Fire Prevention Week. Observe it by being aware of the possible fire hazard of cigarettes, cooking in dormitory rooms, unsafe use of appliances, combustible wall decorations, candles, and overloading of outlets. Inquire about the safest route for leaving a dormitory building, and learn where fire extinguishers are located.

Posters reviewing these warnings will be displayed around campus next week. For more information, call Clint Ram, safety and workers compensation officer, at Ext. 5547.

T. Tom Lin, associate professor of chemistry, recently was awarded a two-and-one-half-year grant of $131,000 by the National Science Foundation to study the structure and dynamics of photosynthetic organic solids. He also received $45,000 from the Petroleum Research Fund, administered by the American Chemical Society, to investigate a aggregation and interaction of paramagnetic species. He presented a paper on "The Electron Spin Echo Studies of Photosynthetic Triplet States" at the 10th International Conference on Light Scattering of Nature, held in Montreal in late September.

Louis M. Smith, professor of education, Graduate Institute of Education, was awarded a summer Gordon fellowship from Deakin University, Geelong, Australia, to work with Richard Bates, Lawrence Angus and Peter Watkins on a research project titled, "An Ethnography of Our Australian Christian Brothers College." The project also made it possible for Smith to visit Flinders University in Adelaide, where she presented a workshop sponsored by the Australian Association for Research in Education on "Educational Ethnography: Issues in Analysis and Interpretation."

Crisis Contained: The Department of Energy at Three Mile Island, the official history of the nuclear accident in Harrisburg, Pa., was published by Southern Illinois University Press last month.

Authors Robert C. Williams, professor of history and dean of University College, and Philip L. Cantelon used unpublished archival materials, including logs of scientists and government officials, oral interviews with participants, and reports of other government agencies to compile this account. Cantelon is president of History Associates, Inc., and serves on the board of editors of The Public Historian.

Children's dance offered

Registration is now open for "Creative Dance Classes" to investigate the six to 12, and a modern dance program for students ages 13 to 18. Both programs will meet for six Saturdays, starting Oct. 2.

The dance program, which marks its 20th anniversary on campus this fall, is headed by Anneline Mertz, director of the dance division. "Classes are designed to develop both physical and mental capacities in terms of fitness and self-awareness."

The schedule is as follows: classes for children ages six and seven will meet from 10 to 11 a.m. Teachers for children ages eight to 12 will meet from 11 a.m. to noon. Modern dance classes for students ages 13 to 18 will meet from 12:10 to 1:50 p.m.

The fee for each course is $35. For registration forms and further information, call the dance division at 889-5858 or 889-5885.

Soprano Violet Chang will give a recital of European and Chinese songs with pianist Peter Helm at 8:15 p.m. Friday, Oct. 8, in Edison Theatre. Chang will present songs by Schubert, Mendelssohn, Puccini and de Falla and a group of popular Chinese songs revealing the innumerable grays of nature. See Calendar for ticket information.

Case in an apparent study in black and white, a student contemplates the innumerable grays of meaning.
Lectures

Thursday, Sept. 30


Friday, Oct. 1
2:30 p.m. Department of Technology and Human Affairs Lecture, "An Update on Solar Technology." Joseph H. Herken, WU prof. of technology and human affairs graduate student. 104 Lopata.

6 and 8:30 p.m. WU Association Travel Lecture Series, "Ben of Brighton," with Jon Hager, former publisher of the St. Louis Globe-Democrat. Graham Chapel. Admission is $24.75 for a couple. $13.75 for a person for eight programs. For single ticket information, call 889-5122.

Saturday, Oct. 2

8 p.m. WU Woman's Club University Night, at Edison Theater to announce The Gin Game. For more information, call Janet Newfield at 725-0372.

Monday, Oct. 4

2 p.m. Department of Chemical Engineering Lecture, "The Development of a Novel Spectroscopic Ellipsometer for Electrocrystallization Studies with Inhibitors," Joseph C. Farnier, graduate student at U. of Calif. at Berkeley. 105 Lopata.


4 p.m. Department of Sociology Lecture, "Toing the Two: Curriculum Reform and Scholarship." Sharon Pfeiffer, assoc. dean, Human Science Div., St. Louis Community College at Florissant Valley. 219 McMillan.


Tuesday, Oct. 5
4 p.m. Career Planning and Placement Panel A "Building a Business with a Liberal Arts Degree," Virgil Eveloff, manager for government issues, Monsanto Co.; Hugh Katz, president, Student Assn., architecture and design; Linda Western, dir., commercial marketing, Mark Twain Bank; Chesterfield Village; Dean Linda Salamon, moderator. Annie Whitney Olin Women's Building. Panel presented by the Student Alumni Relations Committee.

The Arkansas Repertory Theatre presents The Gin Game. D. L. Coburn's bitter sweet drama about life in a retirement home, at 8 p.m. Oct. 1 and 2 in Edison Theatre. The company is part of the Regional Touring Program of the Mid-America Arts Alliance. See Performing Arts below for ticket information.


11 a.m. Assembly Series Lecture, speaker to be announced. Graham Chapel.

4 p.m. Department of Physics Colloquium, "Charge of Fire (The Assumers)." Paul Micra, Aerospace Corp., Los Angeles. 201 Crow.

Thursday, Oct. 7

3:30 p.m. Anthropology Lecture Series, "Fertility-Western's Decision-Making in Western Sera." Bonnie Ann Nardi, prof. of anthropology, U. of Mo.-St. Louis, 101 Lopata.


7:30 p.m. Department of Russian Languages and Literature Lecture, "Goethe Doppelnatur als Dichter und Naturwissenschaftler, oder das Ar- gerio der Gerechtuberhauung." Michael Bobler, prof. of German, U. of Zurich. Hunt Lounge, Duncker Hall.


Friday, Oct. 8


Sports

Friday, Oct. 1
6 p.m. Women's Volleyball, WU vs. Culver-Stockton College. Women's Bldg.

Saturday, Oct. 2
10:30 a.m. Women's Tennis, WU vs. U. of Evansville. Tennis Courts.

1:30 p.m. Soccer, WU vs. Colorado College. Francis Field.

7 p.m. Football, WU vs. Southern Illinois University-Murphy's Francis Field.

Sunday, Oct. 3
4 p.m. Soccer, WU vs. Northeast Missouri State. Francis Field.

Monday, Oct. 4
7 p.m. Women's Volleyball, WU vs. Harris Sower College. Women's Bldg.

Tuesday, Oct. 5
4:05 p.m. Women's Tennis, WU vs. St. Louis University-Edwardsville. Tennis Courts.

Friday, Oct. 8
7:30 p.m. Soccer, WU vs. Grinnell College. Francis Field.

Saturday, Oct. 9
10 a.m. Women's Tennis, WU vs. Quincy College. Tennis Courts.

1:30 p.m. Football (Homecoming), WU vs. Washburn College. Francis Field.

Performing Arts

Friday, Oct. 1
8:15 p.m. Edison Theater presents the Arkansas Repertory Theatre in The Gin Game. D. L. Coburn's Pulitzer Prize-winning tragicomedy. Tickets are $7 gen. admission; $5 for WU faculty and staff and area students; and $4 for WU students. Tickets available at Edison Theater box office, 889-5354. (Also Sat., Oct. 2, 8 p.m. Edison Theatre.)

Friday, Oct. 8
8:15 p.m. Edison Theater presents a recital of European and Chinese songs. Violin Chang, soprano, Peter Helen, piano. Tickets are $5 gen. admission and $7 for students. Tickets available at Edison Theater box office, 889-5354.

Exhibitions

"Five Years Later," an exhibition featuring 10 artists who were students at the School of Fine Arts in 1977. Gall Simpson, Karen Stahlbecker, Ben Friedman, Jan McPeary and Jeff Roth. Buffalo Galley, 10 a.m.-4 p.m. weekdays, 1-5 p.m. weekends. Through Oct. 5.

Calendar Deadline

The deadline to submit items for the Oct. 14-23 calendar of the WU Record is Sept. 30. Items must be typed and page time, date, place, nature of event, sponsor and admission cost. Include your name and telephone number. Address items to King McElroy, calendar editor, Box 1142.