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Washington University Record

Vol. 7, No. 26

April 8, 1982



Junior Steve Bresina, a civil engineering major, launches his hang glider from a Shepley Hall balcony at the fourth annual Egg Drop contest March 28, during Engineers Weekend. Not only did his design successfully cushion the descent of its egg passenger, it won in the categories of slowest descent and best design, netting him a cool \$40. More egg drop on p. 3.

WU maintains Putnam dynasty with easy wins over Princeton, Harvard, Stanford

For the second year in a row and the third time in six years, WU has won the nationally prestigious William Lowell Putnam Mathematical Competition. This victory, similar to winning last weekend's NCAA Division I championship — only in mathematics instead of basketball — required beating the likes of Princeton, Harvard and Stanford universities, which came in second, third and fourth, respectively.

The next six schools included the University of Maryland, the California Institute of Technology, the University of Toronto, the University of Waterloo (Canada), Yale and Case Western Reserve. Schools which did not make the top ten this year included the University of Chicago, the University of California at Berkeley, and the Massachusetts Institute of Technology.

"We were miles ahead at the finish," announced Edward N. Wilson, WU associate professor of mathematics, who coached the three-man student team with Carl M. Bender, WU professor of physics. "Nobody else came close to our average."

In this year's competition, all three members of the WU team placed individually among the top 15 scorers in the United States and Canada. The winning team was Kevin Keating, a senior from Chicago, who placed 7th; Richard Stong, a freshman from Charlottesville, Va., who placed 8th; and Edward Shpiz, a sophomore from Teaneck, N.J., who tied for 14th.

"We did much better than we ever have done before," said Bender. "The second place team had nobody in the top ten scorers."

Now in its 42nd year, the William Lowell Putnam Mathematical Competition was founded by the late Mrs. Putnam. It is open to all collegiate undergraduates. Each school may enter as many students as it wishes, but the

coaches must designate the three students they think will have the highest scores for the school team. This year, more than 2,000 students from 343 colleges in North America participated.

In addition to being the winning team, WU continued its record of placing other students among the top 100 scorers, with Carl Narveson placing 52nd

continued on p. 2

Four arts and sciences faculty chosen for excellence in teaching

Four members of the faculty of Arts and Sciences will be presented with awards for "excellence in teaching" at 2 p.m. Friday, April 9, in the Ann Whitney Olin Women's Building Lounge. The citations are presented by the Council of Students of Arts and Sciences (CSAS).

The four are: Leonard S. Green, associate professor of psychology; Clyde Ruffin, assistant professor of black studies and of performing arts; Edward L. Spitznagel Jr., professor of mathematics; and Ann Marie DiStefano, assistant professor of education.

Mary E. Clark, professor of biology at San Diego State University, and the Council for Advancement and Support of Education (CASE) Professor of the Year, will give an address on "Liberal Arts: A Search for Meaning." Her speech is cosponsored with CSAS by the Student-Faculty Interaction Committee.

The citees for teaching were selected by the nine-member arts and sciences council from open nominations. Steve Adams, president of the CSAS, will preside at Friday's ceremonies.

Clark has been at San Diego State University since 1969. She was educated in biochemistry and zoology at the University of California, at Berkeley.

Clark is the first recipient of the CASE Professor of the Year Award. The judges singled her out for two professional achievements, in addition to her impact on students. She wrote a textbook, *Contemporary Biology*, which has influenced the teaching of general biology, and she also developed an interdisciplinary course, "Guidelines for the Future," which poses ethical dilemmas of modern society for discussion.

CASE is a national organization of university public relations, development and alumni relations professionals.

Services held for Thomas, chemist, former trustee

Charles Allen Thomas, chemist and inventor, corporate and civic leader and a prominent member of the WU community for many years, died Monday, March 29, at his farm near Albany, Ga. Thomas, 82, had been ill for some time.

Raised on a small farm in Scott County, Ky., Thomas was associated with Monsanto Co. in St. Louis for 34 years, including 24 years as a member of the board — as its president from 1951 to 1960 and as chairman during 1960-1965. He retired from the board in February 1970.

A distinguished chemist who, during World War II, coordinated efforts to purify the element plutonium for the atomic bomb, Thomas devoted many of his later years to service to WU. First named a member of its board of trustees in 1954, he was chairman of the board from 1966 to 1977, and was named a life member in 1974. Upon his retirement as chairman, he was given the William Greenleaf Eliot Award.

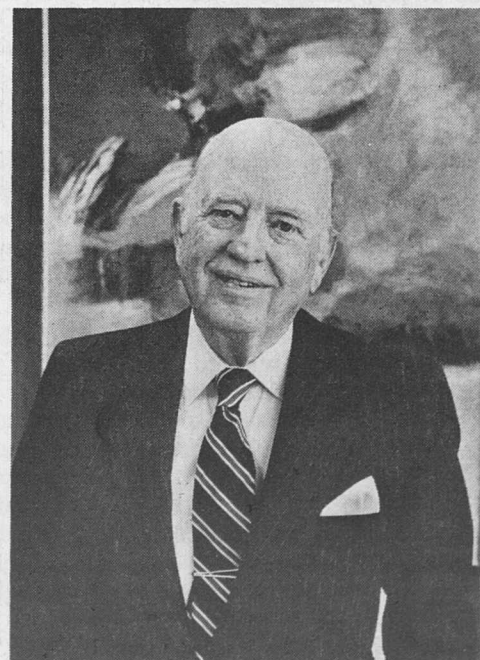
Thomas received an honorary doctor of science degree from WU in 1947. In 1976, he established the Charles Allen Thomas Professorship of Chemistry.

During his chairmanship of the WU board of trustees, he played a central role in the \$70 million capital fund drive of the late 1960s, and was chairman of the strategy committee established in 1973 to lay plans to match the \$60 million Danforth Foundation Challenge Grant.

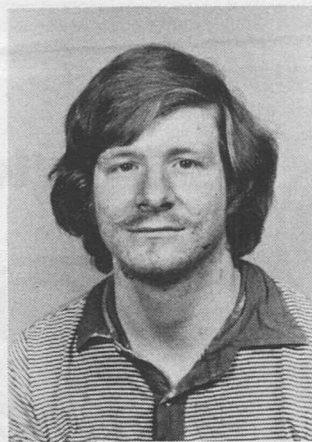
Of his service to WU, Chancellor William H. Danforth said: "Charlie Thomas understood and appreciated academia. He enjoyed students and faculty. He was a wise and farsighted leader of the trustees of our institution."

Thomas H. Eliot, chancellor of WU from 1962 to 1971, said: "For my last five years as chancellor, Charlie Thomas was chairman of the board. He knew exactly how a board chairman can be most

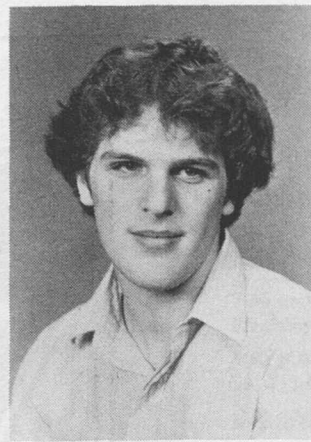
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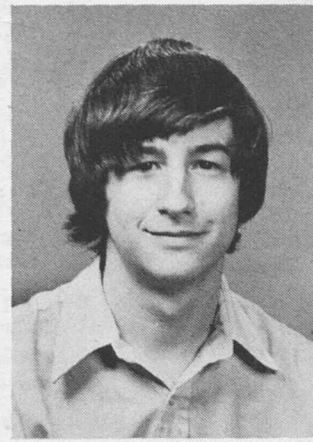
Charles Allen Thomas



Kevin Keating



Edward Shpiz



Richard Stong

Study reveals blacks, older adults are untapped volunteer force

Who will be the volunteers of the future? A recent study by a WU professor indicates that the traditional volunteer workforce — white middle-class women — are using the skills they learn in volunteer positions to boost themselves into the paid job market.

Nonprofit agencies must direct their volunteer programs to other groups of people, said David F. Gillespie, associate professor of social work.

"There are a lot of groups out there that organizations haven't approached yet," said Gillespie, who recently completed a survey of 1300 volunteers for the American Red Cross St. Louis chapter on Lindell Blvd. "They include senior citizens and retirees, non-whites, students and even corporations."

Aided by Tony King, a WU social work doctoral student, Gillespie worked with the director of volunteers and the director of youth services at the Red Cross to find out who its volunteers were, why they volunteered and what means were used to encourage volunteerism. A comparison of statistics from the St. Louis Red Cross chapter with national statistics compiled by the U.S. Department of Labor, VISTA and other organizations revealed some surprising information.

For example, only three percent of the St. Louis Red Cross volunteers are black, in contrast with 20 percent black volunteerism nationally. "It's an unusual statistic considering that the Red Cross building is situated in a predominantly black neighborhood," Gillespie said.

Another group underrepresented among local Red Cross volunteers is senior citizens. The average age of volunteers in Gillespie and King's sample was 45, but the number of volunteers over the age of 65 was very low. "I can only guess that there are so few of them be-

cause they have not been directly approached," Gillespie said, "and because the emphasis our society places upon youth may lead them to believe that they are not wanted by these agencies."

At the other end of the age spectrum, few young people, especially students, are involved in volunteer work. Gillespie said most young people look for paid positions in social agencies or work offering academic credit before choosing a volunteer position.

Gillespie said that corporations are also a good source of professional volunteers.

"Corporations in St. Louis, including Monsanto, Union Electric, Southwestern Bell and McDonnell Douglas, have joined to offer a unique program of leadership and management training seminars for managers and directors of social agencies," said Gillespie. "They have also formed a consulting skills bank of employees who help agencies with a variety of problems — from financial planning to emergency disaster relief."

The next step for agencies like the American Red Cross is to approach these untapped groups. Gillespie found that traditional ways of recruiting volunteers — spending substantial amounts of money for promotions in newspapers, television and radio — do not work. Fewer than six percent of the volunteers surveyed by Gillespie volunteered because of these promotions.

"Most of the people found out about volunteer positions through a friend, a speaker or another agency," Gillespie said. "The opportunities for recruiting are clearly on the side of the face-to-face approach."

Thomas — continued from p. 1

effective; I could not have asked for a wiser or more helpful leader of the University's trustees."

Thomas graduated from Transylvania College, Lexington, Ky., receiving an undergraduate and doctor of science degree from that institution and a graduate degree in chemistry from the Massachusetts Institute of Technology.

His first job was at the General Motors Research Corp., where he helped to develop a tetraethyl lead compound—the first "no knock" element in automobile fuel. In 1925, he cofounded a research laboratory which merged in 1936 with Monsanto Co. Thomas was named head of Monsanto's central research department.

Thomas was selected in 1943 to coordinate the chemical and metallurgical components of a "special bomb laboratory" for the Manhattan project. Two years later he headed Monsanto's operation of the Clinton Laboratories at Oak Ridge, Tenn., where bomb research continued.

In 1946, he was named to a five-member board to draft a U.S. position on international control of atomic energy. Thomas's controversial proposal

to internationalize the world's thorium and uranium mines was included in a plan that was rejected by the Soviet Union at the United Nations.

He received several other government appointments related to science and the national defense. Thomas received the Medal of Merit from President Truman in 1948.

Thomas was recognized by his peers with the Perkin Medal, the most prestigious honor of the American chemical industry; the Priestly Medal, the highest honor of the American Chemical Society, and the Palladium Medal of the Societe de Chemie Industrielle. He was a member of the National Academy of Sciences.

He is survived by a son and three daughters with his late wife Margaret Talbott Thomas; and by his second wife, Margaret Chandler Porter Thomas, whom he married in 1980.

Funeral services were in Albany; a memorial service was held April 1 in St. Louis.

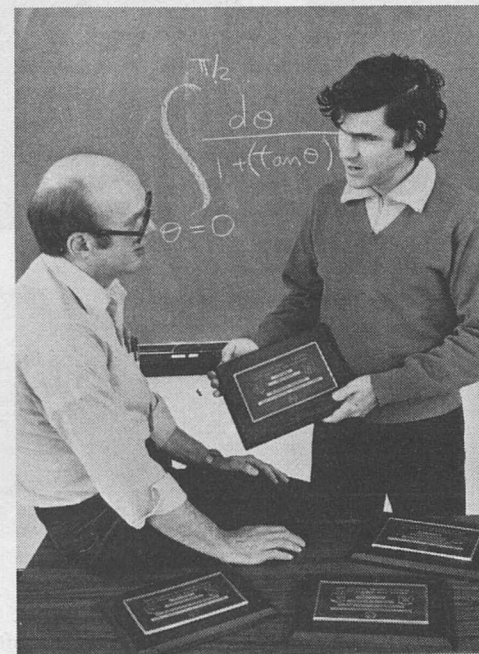
The family has asked that tributes to Thomas's memory be sent to the Charles Allen Thomas Professorship in Chemistry at WU.

Putnam — continued from p. 1

and Bard Bloom placing 95th.

Why did WU do so well in the competition? "It's a combination of very high quality students and intensive coaching sessions held every Friday afternoon throughout the fall," said Bender.

He and Wilson began the weekly coaching sessions in October, where they helped students work problems on past exams, explored patterns, analyzed mathematical steps and reviewed tricks



Coaches Edward N. Wilson (left) and Carl M. Bender, with plaques from past Putnam wins.

that occasionally are useful. The Putnam competition was held Dec. 5, 1981, and the scores, graded by two panels of judges, were announced April 1.

All three members of the winning team are Arthur Holly Compton Fellows. The Compton Fellowships are awarded to WU freshmen through a highly demanding academic competition and include full tuition plus a stipend for four years.

"The Compton program has brought us absolutely great students," said Wilson. "For awhile, Carl Bender and I weren't sure that our coaching was necessary. But the practice sessions do help. The coaching adds perhaps five points to the raw team score, and that translates into the difference between first place and eighth place."

The six-hour competition is divided into two parts with a total of 12 problems. The students are equipped only with pencils, no books or calculators. Keating, the high scorer on the WU team, solved six of the problems.

WU will receive a \$5,000 cash prize for first place, with individual prizes of \$250 for each team member. Keating and Stong will receive an additional \$250 for placing among the top ten scorers.

Chancellor William H. Danforth will hold a victory dinner later this month for all 21 WU Putnam contestants.

World expert on catalysts presents Dreyfus lecture series

John A. Osborn, professor of chemistry at the Universite Louis Pasteur in Strasbourg, France, will present a week-long lecture series, April 12 through 16, at WU. The lectures are on catalysts — metal compounds that speed up chemical reactions but remain unchanged themselves. Catalysts are of critical importance to the chemical industry, and a great deal of research is being done both in industry and academia to produce better catalysts.

The lecture series is being funded by a grant from the Camille and Henry Dreyfus Foundation to promote an interchange among distinguished scientists, faculty and students at academic institutions throughout the United States. WU was one of four midwest schools chosen for this program, a tribute to Drs. Camille and Henry Dreyfus, who were pioneers in the production of synthetic chemicals such as cellulose acetate and man-made fibers.

On Monday through Thursday, April 12-15, the lectures will be held at 4 p.m. in McMillen Chemistry Laboratory, room 311. Coffee will be available at 3:30 p.m. in Louderman Hall, Room 561. The talks are free and open to the public.

On Friday, April 16, a special one-day symposium sponsored by the Dreyfus Foundation, Monsanto and the WU Department of Chemistry, will begin at 9:30 a.m. on campus in the main lounge of the Ann Whitney Olin Women's Building. Titled "Aspects of Homogeneous Catalysis," the symposium

marks the start of a joint seminar program in inorganic and catalytic chemistry between Monsanto and WU. The symposium is also free and open to the public. Tickets for lunch can be obtained from George Stanley at 889-6844.

Osborn received his PhD in 1967 from Imperial College in London. As a graduate student with Sir Geoffrey Wilkinson (Nobel Laureate in 1973), he discovered and elucidated the mechanism for one of the most active and best known homogeneous catalysts, Rh (PPh₃)₃ Cl, often referred to as "Wilkinson's Catalyst," which is used in many industrial processes. He joined the chemistry faculty at Harvard University in 1967, where he continued his research into catalytic systems. In 1975 he moved to Universite Louis Pasteur in Strasbourg, France.

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Next Saturday will be a busy day for campus egg hunters. Not one, but two hunts will be held that day, the first at 10:30 a.m. near Rubelmann dormitory on the South-40, the second, at 1 p.m. on the lawn of Stix International House, 6470 Forsyth Blvd. The morning hunt is a first-time event, sponsored by the Student-Faculty Interaction Committee; Mike Riera, at 889-5038, can make reservations for children of faculty members. The Women's Society of WU is sponsoring the afternoon event, as they do traditionally for the children of international faculty, staff and students. They will have refreshments, puppets and prizes as well. Call Diane Hasty at 889-5910 for reservations.

St. Louis tours, theatre, concerts planned by new student-faculty group

The newly organized 22-member Student-Faculty Interaction Committee has planned an "eventful" spring season with a variety of special activities scheduled that should make April and May as colorful as the blossoms bursting into bloom after last winter's "deep freeze."

Circle three Saturdays in April, the 10th, 17th and 24th, if you want to sample some St. Louis neighborhoods. Robert H. Salisbury and Arnold J. Heidenheimer, both professors of political science, will serve as tour guides on the first of these dates. Salisbury will lead a group headed for Souard Market, the brewing area where "Bud" is bottled, and Laclede's Landing. Heidenheimer will escort his flock to Lafayette Square and then on to Souard Market. Both groups will leave campus at 10 a.m. for the two-hour pilgrimages.

Marilyn E. Heldman, part-time lecturer in the art and archaeology department, will lead an "Eating and Architecture Tour" of the Italian Hill section on April 17th from 11 a.m. to 2 p.m. Evelyn Hu-DeHart, assistant professor of history, will point her group in the opposite direction as she heads toward St. Louis's Near Northside the following Saturday, for two hours of exploration beginning at 10 a.m.

Reservations are required for these neighborhood safaris. Groups will be limited to ten students each. Call Justin X. Carroll, director of student activities, at 889-5040 to reserve a place on these trips.

The small fry (ages 4-10) of the faculty are invited to an "Easter Egg Hunt" on Saturday, April 10, at 10:30 a.m. Children should gather behind Rubelmann and Beaumont Residence Halls on the South-40 for an hour's searching of the turf's nooks and crannies. Parents of young folk eager to par-

ticipate in this hunt should make reservations. Call Michael Riera, area coordinator, at 889-5038, for this "Bunny Day" fun.

Meanwhile, the WU community is invited to gather the evening of Monday, April 12, at the Ann Whitney Olin Women's Building at 7 p.m., to hear a representative of the St. Louis Symphony lecture on the chamber music concert to be presented later that evening at Grace United Methodist Church, 6199 Waterman Ave., at 8 p.m. Guests can feast on wine and cheese before heading for the concert. For ticket information, please call the Symphony office at 534-1700.

Bring your munchies in an Easter basket or more mundane brown bag to the Quad on either or both Fridays (April 23 and April 30) at 12:30 p.m. Music will waft on the breeze at these April "lunch breaks."

On Saturday night, May 1, theatre buffs who attend the performance of *Company* in Edison Theatre are invited to top off the evening with a candlelight reception in Bowles Plaza. The next day, scramble out of bed early to prepare for an old-fashioned all-University picnic in Forest Park. This noon to 4 p.m. bash will include non-electronic games such as an egg toss, three-legged race, and volleyball.

To smooth and sooth those who suffer from "examination whammies," kind-hearted faculty have volunteered to chat during "study breaks" on Tuesday and Wednesday, May 4 and 5, from 10 p.m. until the witching hour in the "Cage Area" of the Wohl Center.

Richard Lee Nault, coordinator of alternative educational programs in the College of Arts and Sciences, is the person to call at 889-6834 for more information.

Campus Notes

Donald Allen, a doctoral candidate in psychology, was invited to give a keynote address to the Task Force on Black Psychology, part of the Association of Black Psychologists, at a meeting April 1-4 in Atlanta, Ga. His lecture, titled "Advances in Black Personality Theory and Implications for Psychology," gave a diagnostic system of black personality order and disorder and treatment implications. The task force is charged with promulgating black psychology in areas that Euro/American psychology has not addressed.

Joseph M. Davie, head of the Department of Microbiology and Immunology at the School of Medicine, and Edward L. MacCordy, associate vice chancellor for research, made presentations at a conference sponsored by Florida State University in early March on "Biotechnology: Its Impact on Industry, University and Government." Davie, who guides much of the medical school's research of hybridomas, addressed the biotechnology session on monoclonal antibodies, which are produced from the artificially produced hybridoma cells. MacCordy spoke on "New University Outgrowth" at the session on industry-government-university relationships.

Edith E. Graber, assistant professor of sociology, and Murray L. Wax, professor of sociology, attended the 46th annual meeting of the Midwest Sociological Association in Des Moines, Iowa, April 7-9. Graber presented a paper titled "Max Weber's Early Sociology:

Problems and Perspectives" during a plenary session on that sociologist and economist. Wax was the organizer and chairman of a plenary session on Freud. He gave a paper during this session titled "Methodology as Critique."

Charles E. Hogen, assistant director of WU's General Services/Purchasing Department, was a featured speaker at a workshop of Project Equality Inc. April 5 in St. Louis. Project Equality's purpose is to encourage equal employment opportunity practices on the part of suppliers of goods and services and to validate that participation. Hogen talked about WU's experience with the program and its use of the *Buyer's Guide*, a publication of Project Equality.

Daniel A. Pacheco, an MBA candidate, has been awarded the "Outstanding Business Student Award" from The Association for the Integration of Management Inc. (AIM) at special ceremonies in New York City. He received an engraved Steuben crystal bowl from AIM, a not-for-profit, tax exempt, multi-racial management development and consulting organization. Its objective is the achievement of full participation in private sector management by minority group men and women.

Pacheco, a Mexican-American, was awarded a fellowship in 1980 from the Consortium for Graduate Study in Management, a nonprofit coalition of six universities, including WU, that recruit minority MBA candidates for graduate study in business.

Dudukovic, Georgian receive teaching awards

Milorad Dudukovic and John C. Georgian have been selected Professors of the Year in the WU School of Engineering and Applied Science. Dudukovic, professor of chemical engineering and director of the Chemical Reaction Engineering Laboratory, has been awarded this honor three times previously, in 1976, 1978 and 1981. Georgian, professor emeritus of mechanical engineering, received the award for the first time. Although he officially retired a year ago, Georgian continues to teach a variety of classes in machine design, vibration theory and stress analysis.

The Professors of the Year were determined by a vote of graduating seniors in engineering, and the recipients were announced at the annual engineering awards banquet March 27 during Engineers' Weekend.

Send in A&E pledge cards

WU employees wishing to make a contribution to the Arts and Education fund drive should send in their pledge cards to the Arts and Education Council, 40 N. Kingshighway, as soon as possible. Pledge cards are available at the Personnel Office, lower level, S. Brookings Hall.

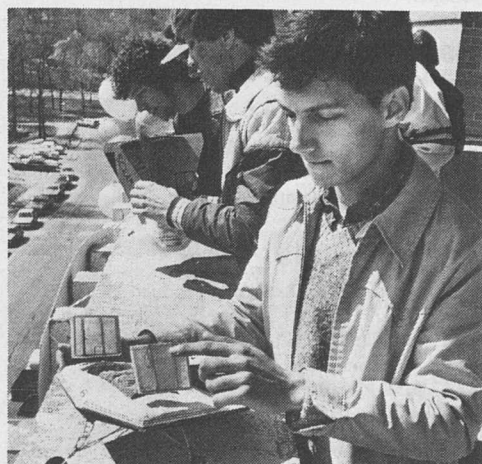
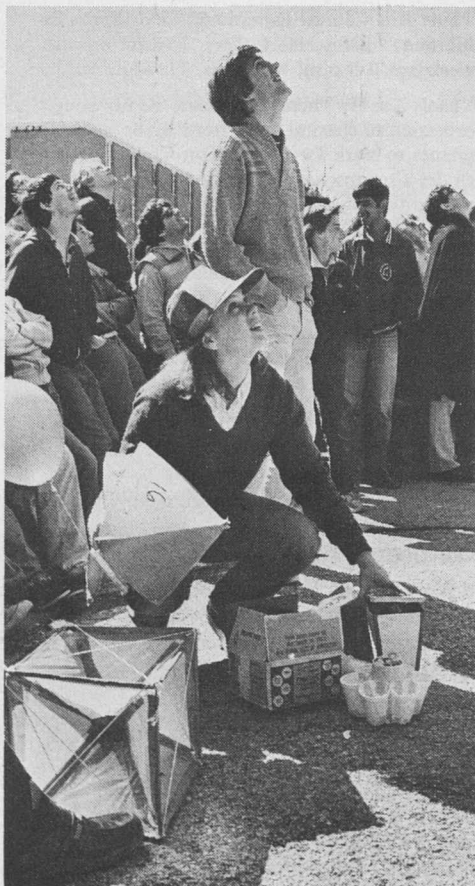
Four Japanese scholars speak at seminar

Four eminent Japanese scholars will visit the campus and present papers in English Tuesday and Wednesday, April 13 and 14. This visit by the quartet is sponsored by the Japan Foundation and the Japan-U.S. Friendship Commission as part of their Japan Traveling Scholars Seminar. The lectures are free and open to the public.

The four speakers are Haga Toru, a professor of literature and history at Tokyo University; Sofue Takao, an anthropologist from the National Museum of Ethnology, Osaka; Watanuki Joji, a political scientist from Sophia University, Tokyo; and Yagi Atsuro, a scholar of early Japanese history, from Yamaguchi University, in Yamaguchi.

Atsuro will give the first lecture, "The Japanese Emperor in Ancient Times," at 3 p.m. on Tuesday. At 8 p.m. that evening, Toru will speak on "Hokusai and Mount Fuji in Japanese Culture."

At 9:30 a.m. on April 14, Joji will speak first on "Social Structure and Voting Behavior in Japan," followed by an address by Takao on "Continuity and Change in the Japanese National Character after the War." All four lectures will be presented in Brown Hall Lounge.



More egg-drop

Some 75 spectators risked getting — you guessed it — egg on their faces, as they awaited the descent of another ingenious, egg-carting device. Above, John Godowski, a freshman in mechanical engineering, prepares his meticulously constructed aircraft. Dubbed "Space Shuttle" by onlookers, because it lost some of its gear on each descent, his design won the award for most popular with the crowd. Another engineering wit entered an unsolvable Rubik's cube — it had seven colors.

April 8-17

Calendar

Thursday, April 8

1 p.m. George Warren Brown School of Social Work Lecture, "Preparing Social Workers for Policy Practice," Helen Graber, WU acting director of practicum, GWB. Brown Hall Lounge.

2 p.m. Department of Chemical Engineering Seminar, "Study of Liquids by Computer Simulation," J. M. Haile, dept. of chemical engineering, Clemson University, S. Carolina. 101 Cupples II.

2:15 p.m. Department of Mechanical Engineering Colloquium, "Unsteady Aspects of Decelerating Flows with Shock Boundary Layer Interactions," Miklos Sajben, McDonnell Douglas Research Labs. 100 Cupples II.

4 p.m. Department of History Lectures, "Law and Liberty: Classical and Contemporary Perspectives," Quentin Skinner, prof. of political science, U. of Cambridge, and WU Visiting Lewin Professor in the Humanities. 101 Lopata. (Also Tues., April 13, and Thurs., April 15, 4 p.m.)

4 p.m. Public Affairs Thursday Lecture, "The Presidency and Civil Rights: The Reagan Administration in Policy Perspective," Augustus Jones, dept. of political science, U. of Fla. C and D, Eliot Social Sciences Bldg.

Friday, April 9

Noon. Department of Anatomy and Neurobiology Lecture, "The Ventral Strio-Pallidal Regent in the Rat and Cat," H. J. Groenewegen, MIT and the Free U. of Amsterdam. 928 McDonnell Medical Sciences Bldg., 4570 McKinley.

2 p.m. Council of Students of Arts and Sciences Lecture, "Liberal Arts: A Search for Meaning," Mary Eleanor Clark, 1981 Council for Advancement and Support of Education (CASE) Professor of the Year, and prof. of biology, San Diego State U. Cosponsored by the Student-Faculty Interaction Committee. Women's Bldg. Lounge.

2 p.m. Department of Technology and Human Affairs Seminar, "Biogas in East Africa," Mel Blaze, prof. of agricultural economics, and Michael Dicks, research associate, U. of Mo.-Columbia. 104 Lopata.

4 p.m. James Barrett Brown Visiting Professor of Plastic Surgery Lecture, "Secondary Cleft Lip and Palate Deformities," with Ian T. Jackson, prof. of plastic surgery, Mayo Medical School, U. of Minn. West Pavilion Aud., 606 S. Euclid.

8 p.m. Departments of Romance Languages and Art and Archaeology Lecture, "The Symbolist Movement: A Critical Appraisal," Anna Balakian, prof. of comparative literature, New York U. Steinberg Hall Aud.

Saturday, April 10

9 a.m. Department of Anatomy and Neurobiology Lecture, "The Role of the Neural Crest in the Formation and Patterning of Cranial Facial Nerves, Muscles and Skeletal Tissues," Drew M. Noden, New York State College of Veterinary Medicine and Cornell U. Cori Aud., 4570 McKinley.

9 a.m. James Barrett Brown Visiting Professor of Plastic Surgery Lecture, "Surgical Treatment of Craniofacial Tumors," Ian T. Jackson, prof. of plastic surgery, Mayo Medical School, U. of Minn. East Pavilion Aud., Barnes Hosp. Plaza.

1 p.m. Women's Society Easter Egg Hunt for children of international faculty, staff and students. Children should bring containers to hold eggs. No charge. For reservations, call 889-5910. Stix International House, 6470 Forsyth Blvd.

6 p.m. Martin Luther King Jr. Symposium Soul Food Dinner and Slide Presentation, "Historic Black St. Louis." Tickets are \$3.50, available from the ABS, 889-5989; Black Studies Program, 889-5690 or SES, 889-5970, Holmes Lounge.

8 p.m. International Folk Festival featuring entertainment by international WU students. Wydown Junior High School, 6500 Wydown Blvd. Tickets are \$1, available at Stix International House, 6470 Forsyth Blvd.

Sunday, April 11

3 p.m. Black Honors and Awards Program with Margaret Bush Wilson, chairwoman, NAACP National Board and a WU trustee. Graham Chapel.

Monday, April 12

11 a.m. Department of Civil Engineering Seminar, "Consequences of Earthquakes in the Mississippi Valley," Otto W. Nuttli, prof. of geophysics, St. Louis U. 100 Cupples II.

12:45 p.m. Society of Professors Emeriti Luncheon, "Architecture of St. Louis," Lawrence S. Lowie, WU asst. prof. of art and archaeology. For members only. Whittemore House.

2 p.m. Department of Chemical Engineering Seminar, "The Effect of Mass Transfer and Chemical Reaction on the Breakup of Liquid Jets," John Berg, prof. of chemical engineering, U. of Wash., Seattle. 100 Cupples II.

4 p.m. Population Biology Program Lecture, "Topics in Theoretical Population Genetics: Variance of Inbreeding," Bruce Wier, dept. of biostatistics, N.C. State U. (Also: "Testing for Higher Order Disequilibrium," Tues., April 13; and "Use of Sibs for Detecting Linkage," Wed., April 14.) 101 Monsanto Lab.

4 p.m. Department of Chemistry Camille and Henry Dreyfus Lecture Series, "Homogeneous or Heterogeneous Catalysis: Friends or Foes?" John A. Osborn, Universite Louis Pasteur, Strasbourg, France. (Other lectures by John Osborn: "Further Aspects of Homogeneous Catalysis," Tues., April 13; "Transition Metal Clusters and Catalysis," Wed., April 14; and "Binuclear Copper Systems and Oxygen Activation," Thurs., April 15.) All lectures at 4 p.m. in 311 McMillen Lab.

4 p.m. Department of Biology Lecture, "Evolutionary Patterns in the Bignoniaceae: A Model of Tropical Plant Speciation," Alwyn H. Gentry, Mo. Botanical Garden. 322 Rebstock.

4:30 p.m. Assembly Series Lecture, "World Inflation Forever?" Sir Alexander Cairncross, chancellor, Glasgow U., Scotland. Graham Chapel.

8:30 p.m. Schools of Fine Arts and Architecture Lecture, "Visual Composition: Applications to Art and Architecture," Rudolf Arnheim, prof. of art history, U. of Mich. Cosponsored by the Assembly Series. Steinberg Hall Aud.

Tuesday, April 13

Noon. Department of Microbiology and Immunology Lecture, "Nucleotide Sequence Studies on Rat Kappa Chain Genes: Conservation and Duplication," George Gutman, dept. of microbiology, U. of Calif.-Irvine. 509 McDonnell Medical Sciences Bldg., 4570 McKinley.

3 p.m. Center for the Study of American Business Lecture, "Prospects for Industrial Recovery in the United Kingdom," Sir Alexander Cairncross, chancellor, Glasgow U., Scotland. Eliot Hall.

3 and 8 p.m. Japan Traveling Scholars' Seminar, sponsored by the Japan Foundation and the Japan-U.S. Friendship Commission. Visiting Japanese scholars will present formal papers in English and be available for informal discussions with seminar participants. (Also Wed., April 14, 9:30 a.m.) For more information, call 889-5156. Brown Lounge.

4 p.m. Cellular and Molecular Programs Lecture, "Expression of Cloned Globin Genes. Introduced into Mammalian Cells in Culture," Tom Maniatis, prof. of biochemistry, Harvard U. Cori Aud., 4570 McKinley.

8 p.m. History of Medicine Club Lecture, "Medical Attitudes Toward Childbirth in America, 1800-1861," Sylvia Hoffert, PhD candidate in history, Ind. U. WU School of Medicine Library, 615 S. Taylor Ave.

Wednesday, April 14

11 a.m. Assembly Series Lecture, "Liberty and Fortune: The History of a Relationship," Quentin Skinner, prof. of political science, U. of Cambridge and WU Visiting Lewin Professor in the Humanities. Graham Chapel.

12:10 p.m. Gallery of Art Noon Gallery Talk, "Exploring Joseph Cornell's Visual Poetry," James Cohan and Arthur Greenberg, WU undergraduates. Print Gallery, WU Gallery of Art, Steinberg Hall. Visitors encouraged to bring lunch bags.

4 p.m. Plant Biology Program Lecture, "Chemical Communication and Natural Plant Protection," Clarence Ryan, agricultural chemistry dept., Wash. State U. 322 Rebstock.

4 p.m. Physiology and Biophysics Lecture, "How Do Rod Photoreceptors Renew Their Outer Segments? How Do Old and New Disc Membranes Differ?" Ted Williams, Inst. of Molecular Biophysics, Fla. State U. Physiology Lab., South Bldg., 4577 McKinley.

4 p.m. Department of Physics Colloquium, "Disordered Solids at Ultra-Low Temperatures," Brage Golding, Bell Labs., Murray Hill, N.J. 201 Crow.

7:30 p.m. Comparative Policy Colloquium, "The Rise and Fall of Employment Policy in Great Britain," Sir Alexander Cairncross, chancellor, U. of Glasgow, Scotland. Women's Bldg. Lounge.

8 p.m. Department of English Poetry Reading with Ron Wallace, visiting poet from the U. of Wis., reading his own work. Hurst Lounge.

Thursday, April 15

3 p.m. Women's Studies and Black Studies Programs Lecture, "Black Professional Women in Higher Education," Rosetta Taylor-Moore, WU instructor in black studies. Ann Whitney Olin Women's Bldg. Lounge.

3 p.m. Department of Economics Colloquium, "Investment, Innovations and Economic Growth," Sir Alexander Cairncross, chancellor, Glasgow U., Scotland. Eliot Hall.

4 p.m. School of Architecture Lecture, "Synagogue Renovation," Ed Baum, WU assoc. prof. of architecture. 116 Givens.

4 p.m. Neural Sciences Program Lecture, "Efferents and Afferents in an Intact Muscle Nerve During a Stretch Reflex," Paul Bessou, U. of Paul Sabatier, France. Cori Aud., 4570 McKinley.

4 p.m. Population Biology Program Lecture, "Organization and Evolution of Telomeric Sequences in Drosophila," Edward Strobel, dept. of biology, Purdue U. 322 Rebstock.

8 p.m. Department of English Colloquium, "On the Shakespearean Enterprise: 'This Inconstant Stay,'" Lawrence J. Ross, WU prof. of English. Hurst Lounge, Duncker Hall.

Friday, April 16

9:30 a.m. Department of Chemistry Camille and Henry Dreyfus Symposium, "Aspects of Homogeneous Catalysis," John Gladysz, U. of Utah; Denis Forster, Monsanto Co., St. Louis; Robert H. Grubbs, Calif. Institute of Technology; and John A. Osborn, Universite Louis Pasteur, France. Ann Whitney Olin Women's Bldg. Lounge. (Buffet lunch, noon, \$3 per person). For reservations, call 889-6844.

12:30 p.m. McDonnell Laboratory for Psychical Research Lecture, "Automated Filming of Spontaneous Psychokinesis," Peter R. Phillips, WU prof. of physics. 117 Eads.

2 p.m. Second Annual Estelle Brodman Lecture, "Editing a General Medical Journal," Arnold S. Relman, editor, *New England Journal of Medicine*. Moore Aud., 660 S. Euclid.

2 p.m. Department of Technology and Human Affairs Seminar, "Is Decontrol of Natural Gas Decontrol?" Lee M. Liberman, chairman of the board and pres., Laclede Gas Co., St. Louis. 101 Lopata.

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

Saturday, April 17

9 a.m. Neural Sciences Program Lecture, "Matrix Components Relating to Neural Crest Cells," Michael Derby, WU research assoc. in biological chemistry. 928 McDonnell Medical Sciences Bldg., 4570 McKinley.

Music

Thursday, April 8

7 p.m. King Symposium Jazz Concert with WU Jazz Ensemble. Gargoyle, Mallinckrodt. No charge.

Tuesday, April 13

8 p.m. WU Department of Music Percussion Concert, directed by Orland Johnson, WU prof. of music. Graham Chapel. No charge.

Wednesday, April 14

8 p.m. Collegium Musicum Concert, with music by 16th-century composer Orlando de Lassus and his contemporaries. Peter Holman, visiting lecturer in musicology, will direct the ensemble. Graham Chapel.

Performing Arts

Friday, April 9

8 p.m. King Symposium Performance, "We Free Singers Be . . . A Song For My People," St. Louis Black Repertory Company. Drama Studio, Mallinckrodt. No charge.

Friday, April 16

7 p.m. Performing Arts Area Production, "Impromptu: A One-Act Play by Tad Mosel," directed by Helen Kaplow, WU undergraduate. Drama Studio, Mallinckrodt. No charge. (Also Sat., April 17, 7 p.m., Drama Studio.)

8 p.m. Edison Theatre Series, "WU Dance Theatre." Edison Theatre. Tickets are \$6 general admission; \$4.50 for WU faculty, staff and area students; and \$3 for WU students. Tickets on sale at Edison Theatre box office, 889-6543. (Also Sat., April 17, and Sun., April 18, 8 p.m., Edison.)

Films

Thursday, April 8

7:30 and 9:30 p.m. WU Filmboard Series, "Before the Revolution." \$2. Brown Hall Aud.

Friday, April 9

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

Midnight, WU Filmboard Series, "Planet of the Apes." \$1. Brown Hall Aud. (Also Sat., April 10, midnight, Brown.)

Sunday, April 11

4:30 and 7 p.m. WU Filmboard Series, "The Spy Who Loved Me." \$2. Brown Hall Aud. (Also Mon., April 12, 7 and 9:30 p.m., Brown.)

Tuesday, April 13

7 p.m. German Cinema Series, "Der Handler der vier Jahreszeiten." \$1. 215 Rebstock.

7:30 and 9 p.m. WU Filmboard Series, "Bride of Frankenstein." \$2. Brown Hall Aud.

8:45 p.m. German Cinema Series, "Effi Briest." \$1. 215 Rebstock.

Wednesday, April 14

7 p.m. Women's Film Series, "Women Loving Women," "Pink Triangles" and "Greetings From Washington, D.C." Gargoyle, Mallinckrodt. No charge.

7:30 and 9:30 p.m. WU Filmboard Series, "Les Enfants Terribles." \$2. Brown Hall Aud. (Also Thurs., April 15, same times, Brown.)

Friday, April 16

7:30 and 9:45 p.m. WU Filmboard Series, "Clockwork Orange." \$2. Brown Hall Aud. (Also Sat., April 17, same times, Brown.)

Exhibitions

"19th- and 20th-Century Masterpieces from the University Collection." Lower Gallery, WU Gallery of Art, Steinberg Hall. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. Through April 25.

"Master of Fine Arts Thesis Exhibition Part I." Upper Gallery, WU Gallery of Art, Steinberg Hall. Gallery of Art hours are 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. Through April 11.



This untitled construction (Hotel de l'Etoile; Night Skies: Auriga) from the E. A. Bergman Collection, Chicago, is on display in the "Exploring Joseph Cornell's Visual Poetry" exhibition in the Print Gallery, WU Gallery of Art, Steinberg Hall.

"Exploring Joseph Cornell's Visual Poetry." Opening reception, April 9, following 8 p.m. lecture by Anna Balakian, in Steinberg Hall Aud. Print Gallery, WU Gallery of Art, Steinberg Hall. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. Through May 9.

"Fine Arts Council Invitational Color Xerox Exhibition." Bixby Hall Gallery. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. Through April 13.

"Fools Are My Theme, Let Satire Be My Song," a collection of classical satire from Aesop and Aristophanes to Mark Twain and Kurt Vonnegut. Includes a manuscript letter by Mark Twain and a rare edition of Voltaire's *Candide*. Special Collections, Olin Library, fifth floor. April 12-August 31. 8:30 a.m.-5 p.m. weekdays.

Sports

Friday, April 9

3 p.m. Baseball, WU vs. Maryville College. Utz Field.

Friday, April 16

3 p.m. Men's Tennis, WU vs. Rose-Hulman Institute. Tennis Courts.

Saturday, April 17

1 p.m. Baseball Doubleheader, WU vs. Greenville College. Utz Field.

Calendar Deadline

The deadline to submit items for the calendar period of April 22-May 1 is April 8. 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.