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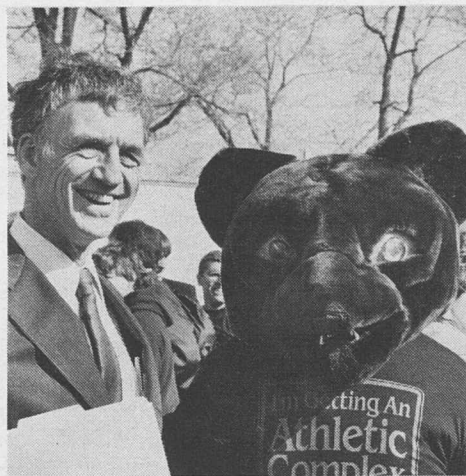


WASHINGTON
UNIVERSITY
IN ST. LOUIS

Washington University Record

Vol. 8, No. 29

April 28, 1983



"Bearing" in mind the historical significance of the day, members of the WU community gathered April 15 to celebrate the renovation and expansion of the University's athletic facilities. While the WU Marching Band played and the cheerleaders cheered, members of the WU Board of Trustees, like William K. Tao, left, distributed free T-shirts bearing the slogan "I'm Getting An Athletic Complex at Washington University." Baseballs, footballs and soccer balls were thrown into the crowd at the end of the ceremonies. Chancellor Danforth, above with his old friend the WU mascot bear, was master of ceremonies.

Shepsle to study legislatures with Guggenheim

Kenneth A. Shepsle, WU professor of political science, has been awarded a fellowship from the John Simon Guggenheim Memorial Foundation. Grants totalling over \$5 million were made to 292 scholars, scientists and artists this month, in the foundation's 59th annual competition.

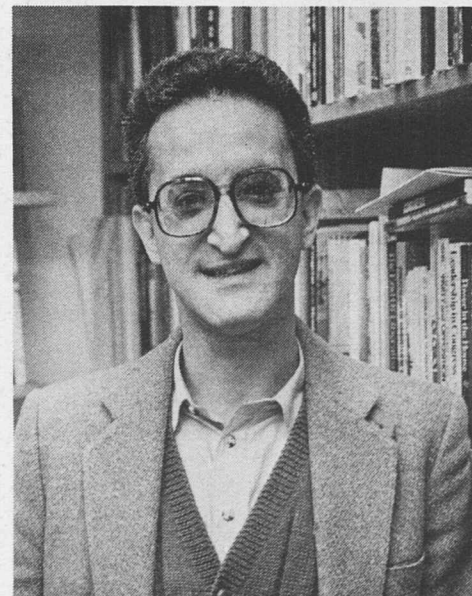
The fellowships are awarded on the basis of demonstrated accomplishment in the past and strong promise for the future. There were over 3,500 applications for the grants.

Shepsle's proposed research topic was "Institutional Equilibrium." Shepsle described the work as a theoretical and mathematical approach that examines the division of labor and the extent of decentralization in organizations — corporations, government bodies and educational institutions. Shepsle will concentrate on legislative bodies and how their structure and procedures combine with self-interest to channel the consideration of alternative policy.

Shepsle is the author of a book, *The Giant Jigsaw Puzzle: Democratic Committee Assignments in the Modern House*, and coauthor of another, *Politics in Plural Societies: A Theory of Democratic Instability*. He has also edited and coedited two other volumes, one on the Congressional budget process and another titled *Political Equilibrium*.

He joined the WU faculty as an assistant professor of political science in 1970. In 1978, he became professor of political science and research associate at the Center for the Study of American Business. He has received grants from the National Science Foundation, the Olin Foundation and was a national fellow, Hoover Institution, in 1974-75.

Shepsle received undergraduate degrees in mathematics and political science from the University of North Carolina, Chapel Hill, in 1966, and a PhD in political science from the University of Rochester in 1970.



Kenneth A. Shepsle

WU scientists develop coating to protect plastics in space-bound experiments

The concept was fairly simple. Lofted high into earth orbit by the space shuttle, specially developed plastic films would capture evidence of cosmic dust particles — bits of ancient, drifting matter that may hold clues to the formation of the solar system.

Or so WU scientists thought. Last fall, plans for this space-age dragnet operation of sorts nearly came to a halt. Something in space was destroying the plastic.

"You've got a big problem," the National Aeronautics and Space Administration (NASA) told scientists here, who have been collaborating with two groups in Germany to devise a cosmic dust experiment for a 1984 space shuttle flight. Launched into earth orbit by the shuttle, a cylindrical satellite called the Long Duration Exposure Facility would carry the experiment and a number of others for one year before being retrieved for analysis.

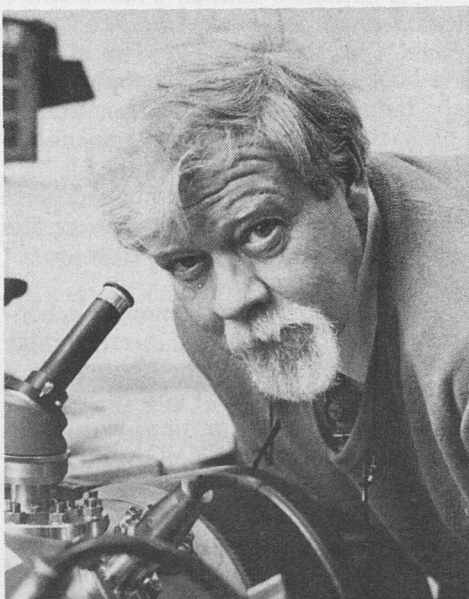
Initial shuttle flights, however, revealed a phenomenon with the potential to ruin the WU experiment. Samples of plastic material (like Mylar and Kapton), which had previously been "space rated," were found to have changed rather drastically in the shuttle environment. The plastic surfaces were visibly cracked and eroded. The culprit, scientists believe, was atomic oxygen.

Unlike the double-oxygen molecules we breathe, these single atoms of oxygen, which are rarely found in the earth's lower atmosphere, are highly reactive — enough so, apparently, to cause chemical erosion in certain plastics.

"Of course, so-called empty space is not empty," said Robert M. Walker, WU McDonnell Professor of Physics and director of the McDonnell Center for the Space Sciences, "but this is a phenomenon we never dreamed of."

Concerned with the impact on a number of experiments, including WU's, NASA officials decided to test a variety of materials for erosion during the fifth shuttle.

Different types of plastic strips coated with thin metal films were hurriedly prepared at WU under the direction of Ernst Zinner, a senior research associate and principal investigator on the cosmic dust experiment. Following



Robert M. Walker

the shuttle's return to earth last November, an analysis of the samples conducted at the University showed that a 20-atom-thick coating of a gold-palladium alloy was sufficient to protect the plastic from the erosion.

Participating in the analysis were Zinner; Walker; Randy Korotev and David Lindstrom, senior research scientists; Norbert Pailer, visiting McDonnell research associate; Scott Sandford, graduate student; and Patrick Swan, space engineer.

While its erosion troubles may be over, Zinner said, the WU experiment may encounter another unplanned obstacle in space — man-made debris in the form of old spacecraft scraps and rocket exhaust. "It's not an immediate problem" he noted, "but it could become severe."

Meanwhile, NASA researchers and other scientists are taking a second look at plastic parts and equipment destined for space travel. "It's possible that erosion by atomic oxygen played a role in some of the past, unexplained space failures," Walker said. "It's certainly worth a study in retrospect."

Jill Draper



Ninety percent of the sulfur that contributes to acid rain over the Adirondacks come from sources in the outlined areas of this computer-generated map from CAPITA. The darkest areas represent the largest sources.

Center proposes five easy ways to take the sting from acid rain

Acid rain conjures up some well-known images for many people in New England and Canada. Like dead fish. Dying lakes. Crumbling tombstones, statues and buildings.

Pretty emotional stuff, acknowledges the head of the world's largest academic center for air pollution and meteorological data — the WU Center for Air Pollution Impact and Trend Analysis (CAPITA).

But high emotions and hastily drawn remedies are not the best approach to controlling this phenomenon that occurs when sulfur and nitrogen gases from power plants, oil refineries, automobile exhaust and other sources are transformed with water vapor in the atmosphere.

So says Rudolf B. Husar, director of CAPITA and professor of mechanical engineering.

According to Husar, not enough is known about acid rain to justify drastic and costly new regulations. A good example of premature action, he says, is a bill passed by the U.S. Senate and now under consideration by the House. The bill would force a uniform cutback of sulfur dioxide emissions across a 30-state area in the eastern half of the country.

Yet a study just completed by CAPITA shows that acid rain-causing pollutants do the greatest damage within a 300- to 600-mile radius of their sources. This finding means that reducing pollution in most parts of the Midwest and Southeast (namely, Missouri, Tennessee, Alabama, North and South Carolina and parts of Kentucky) would do little to help the Northeast, where shallow, rocky soils make it particularly sensitive to the toxic effects of acid rain.

"In the past," Husar says, "we have substantially overestimated the

long-range transport of these pollutants. And because our knowledge of acid rain is still inadequate, misunderstandings will continue to arise. But," he emphasizes, "doing nothing is not the right attitude, either."

What Husar proposes instead of one major piece of legislation are five easy pieces — a quintet of relatively painless actions that can be taken while research continues:

- **Washing coal.** Much of the coal that power plants burn is already partially washed to remove stones and dirt. In that process, sulfur is also removed. The more thoroughly coal is washed, the less sulfur it contains and the cleaner it burns.

- **Engineering improvements into power plants.** Between 5 to 10 percent of the energy a power plant produces literally goes up in smoke, heating most smokestack plumes to about 300 degrees Fahrenheit. If even a small percentage of this heat loss could be recycled back into the system, plants could save thousands of dollars a day in fuel. Also, emissions released in cooler air would stay closer to ground level, reducing the time pollutants have to recombine into more toxic substances. "It's the hot, buoyant air, not the height of the smokestacks, that really scatters emissions high into the atmosphere," Husar explains.

- **Switching fuels.** The impact of acid rain could be softened if extra-clean coal were burned during the spring, when sensitive northeastern lakes are hit with a massive dose of acid precipitation in the form of melting ice and snow. Cheaper, dirtier coal could be burned during periods that are less traumatic for plants and waterlife.

- **Further emission controls on automobiles.** Exhaust from gasoline-powered vehicles contains nitrogen oxides — the other major component of acid rain besides sulfur compounds. The reduction of both acidifying agents is important.

- **Promoting energy conservation.** In the end, Husar notes, it's not the power companies causing acid rain. It's consumers of electricity.

Meanwhile, Husar says, we should study not only man-made pollutants, but the natural occurrence of sulfur and nitrogen compounds. "That's the only way to tell how much we are straining nature," he states. "In the past, that aspect of the environment — understanding the normal — has been pushed under the rug."

Jill Draper

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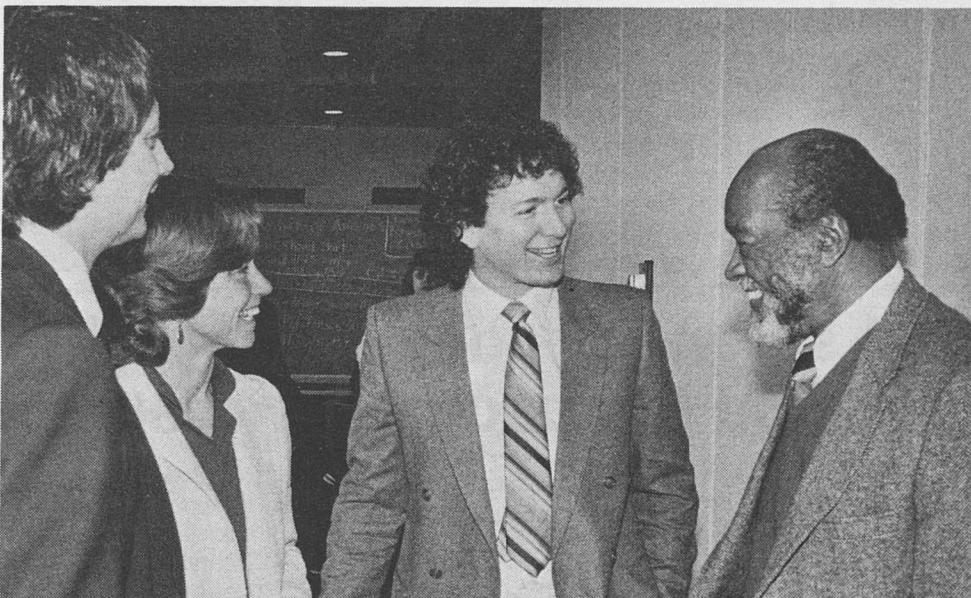
Local judges and lawyers honored at School of Law reception

Judge Theodore McMillian of the U.S. Court of Appeals, Eighth Circuit, and more than 65 other St. Louis judges and attorneys were honored by the School of Law at a reception at the Whittemore House on April 27 for their participation in the School's Advocacy and Litigation Program.

Many of the judges and attorneys honored are adjunct professors in the Program's pre-trial and trial simulation courses or are supervisors in the Introductory and Advanced Lawyering Practice Clinic and the Judicial Clerkship internship. Some of them judge local and national advocacy competitions or are guest speakers in the School's Judicial Lecture/Demonstration Series held every spring.

Judge McMillian serves as a supervising judge in the Judicial Clerkship internship, a guest lecturer on "Appellate Argument" in the lecture series, and as a judge for local Client Counseling, Mock Trial and Moot Court competitions.

"We feel fortunate to have found a way to utilize the experience of the top legal talent in the St. Louis Metropolitan area to strengthen our Advocacy and Litigation Program," Hodge O'Neal, dean of the School of Law, told the guests. "We realize that your teaching for us requires a sacrifice of time and energy on your part, and we want to express our gratitude for the tremendous contribution you are making to the education of our students."



Judge McMillian (right) with Law School faculty members (from left) Bob Goodwin, clinical law instructor, Karen Tokarz, assistant professor of law, and Tom Blumenthal, clinical law instructor, during one of McMillian's visits to the School.

KMOX anchorman to speak at WSWU luncheon

Author and KMOX-TV anchorman Julius Hunter will be the guest speaker at the Women's Society of WU spring luncheon at noon Wednesday, May 11, in the Ann Whitney Olin Women's Building.

A native St. Louisan, Hunter will speak on his new book *Kingsbury Place: The First 200 Years*. The 17-chapter book chronicles the development of the fashionable Kingsbury Place from 1798, the year of the original Spanish land grant, to the present day.

Hunter is also the author of a children's book, *Absurd Alphabettime Stories*, and a college textbook, *Broadcast News: The Inside Out*.

The Emmy award-winning anchorman joined the KMOX-TV staff in May 1974. Hunter anchors the Channel 4 weeknight 6 p.m. news and co-anchors the weeknight 10 p.m. news with Steve Schiff. Before joining KMOX-TV, he was a news reporter, weekend anchorman and weekend news director for KSDK-TV since 1970.

Last January, Hunter was appointed WU adjunct professor of communications and journalism of University College.

Reservations for the luncheon are

\$8.95 and may be made by mailing a check to the Women's Society, Campus Box 1209. For more information, call 889-5295.

WU pediatrician dies; was emeritus professor

Marianne Kuttner, 77, emeritus professor of clinical pediatrics at WU's School of Medicine, died of cancer April 3 in Jewish Hospital.

A native of Bonn, Germany, she received her medical degree from the University of Frankfurt. She came to the United States in 1933 and settled in St. Louis, where she entered private practice as a pediatrician and joined the staffs of Jewish and St. Louis Children's hospitals.

In 1971, she became assistant professor of pediatrics at the School of Medicine; she was named emeritus professor of pediatrics in 1980.

Memorial services for Kuttner were held on April 12 at the St. Louis Ethical Society in Ladue, where she was a long-time member and a physician in the nursery school.

Announcements

Honor's Assembly

East St. Louis Mayor Carl E. Officer will be the keynote speaker at WU's first All-University Honor's Assembly at 11 a.m. Wednesday, May 4, in Graham Chapel. A reception will follow the assembly in the Ann Whitney Olin Women's Building Lounge.

Officer will speak on "The Youth Shaping the Future of this County."

The assembly, which is free and open to the public, is sponsored by the Alpha Kappa Circle of Omicron Delta Kappa, the national leadership honorary.

"The honor's assembly seeks to recognize undergraduate students who have displayed extraordinary leadership potential through participation in student government, sports, performing arts, service groups, honoraries and other student organizations," said Andrew Kaplan, president of Omicron Delta Kappa.

Kaplan said the group plans to hold the honor's assembly annually.

Living tribute

When the founder and early employees of CPI Corp. were honored recently for their long years of service, no gold watches or pendants passed hands. Instead, a living tribute was begun — an endowed scholarship fund for the WU School of Business and Public Administration that will be added to as additional employees retire or mark their 30th anniversaries.

The CPI Founders Scholarship Fund was created with an initial endowment that will be supplemented by future donations in recognition of individual employees. Awards from the fund will be made to business students annually, beginning next fall.

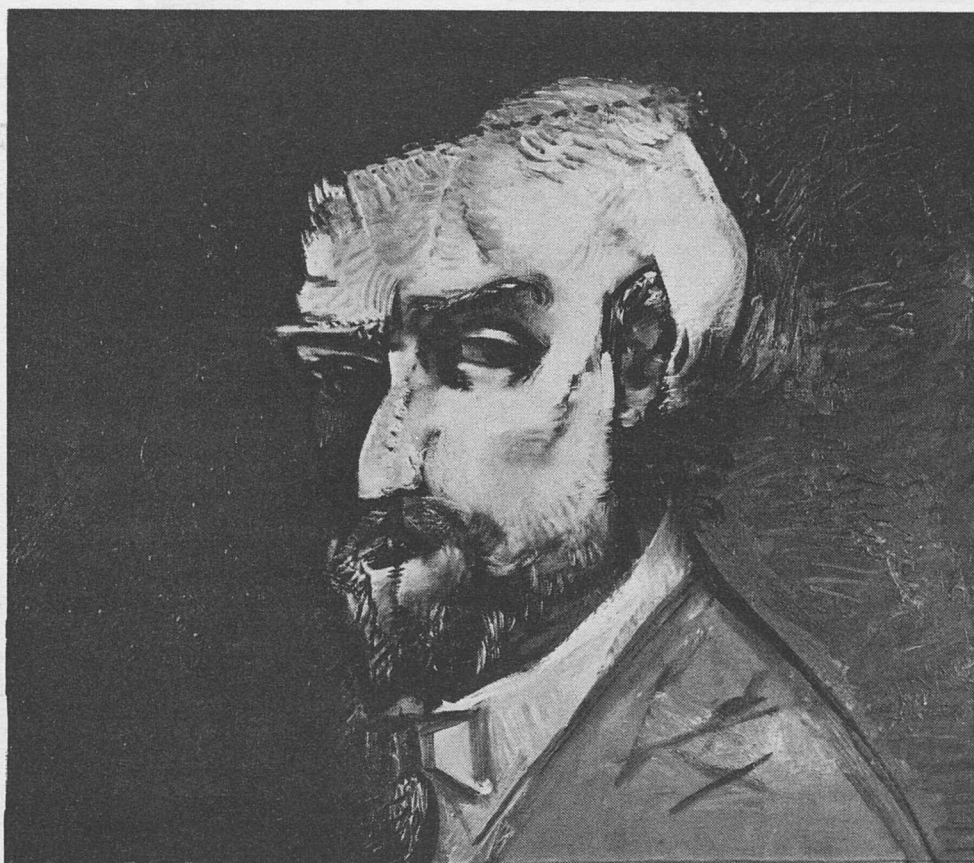
According to CPI chairman Alyn Essman, "After 30 years of service, we wanted to do something more lasting for our employees than offering them token gifts. We have a corporate tradition of developing people, and the scholarship fund is an extension of that tradition."

CPI is a St. Louis-based corporation that specializes in retail consumer services, including portrait studios, residential carpet cleaning, one-hour photo finishing labs and private telephone systems.

New facilities

The Mallinckrodt Institute of Radiology's Division of Radiation Oncology at the School of Medicine commemorated its recently expanded facilities April 21-23 with an inaugural scientific program.

The program marked the installation of a new Clinac 6 linear accelerator and completion of the new Hyperthermia Treatment and Research Center at Mallinckrodt Institute. With the addition of the Clinac 6, Mallinckrodt Institute now has four linear accelerators, which provide a high energy beam used to destroy cancer cells. The Hyperthermia Center will research the use of heat to shrink cancer cells.



The New Greek, an oil painting by Edward E. Boccia, is one of 56 oil paintings and 24 drawings to be shown at the Mitchell Museum in Mt. Vernon, Ill. through May 29.

Boccia exhibition dedicated to May

Edward E. Boccia, professor of art in WU's School of Fine Arts, has dedicated "The Boccia Retrospective Exhibit" at the Mitchell Museum in Mt. Vernon, Ill., to the memory of the late Morton D. May, who died April 13.

The 42-year retrospective includes 56 oil paintings and 24 drawings, the majority lent from private collections and institutions. Several of the works on view are from the collection of philanthropist and civic leader "Buster" May.

"For over 30 years, Buster's encouragement has allowed me to paint freely, from the heart, never to compromise," stated Boccia. "He was a great man who loved art above all else."

Included in the exhibition are three self-portraits painted in 1945, 1956 and

1982. *Pensieroso*, a five-panel polyptych standing approximately seven feet high and never before exhibited, is also on display.

Boccia joined the WU faculty in 1951. He studied at Pratt Institute, New York, the Arts Students League in New York and earned a BA and MA from Columbia University.

Boccia's work is included in over 200 private collections in New York, Miami, South America, Belgium and Canada. He has exhibited at the L'Obelisco Gallery in Rome, Italy, and the Dada Gallery in Athens, Greece.

The exhibition will hang through May 29 at the museum located on Richview Road. Viewing hours are 1 p.m. to 5 p.m. Tuesday through Sunday.

Lady Bears break WU records at track meet

Kathy Johnstone qualified for the NCAA Division III women's track nationals when she won the 5,000-meter run in the Southern Illinois University-Edwardsville Relays April 16.

Her time of 18:05.9 beat the qualifying standard of 18:20.0. The nationals are slated for North Central College in Naperville, Ill., in late May. Her time also broke the University record, as well as the freshman record.

Lisa Cominetti also broke the University and freshman records when she won the 10,000-meter run in 34:55.1.

Two relay teams were first in the six-team event in which the Lady Bears finished third with 96 points. The host team was first with 171, followed by Millikin, 110, in second place. Fourth was DePaul, 62; fifth was Principia, 43; and sixth was Greenville, 25.

The winning relay teams were the Distance Medley and the 3,200-meter. The Distance Medley team of Cheryl Kornetzke, Kim Hubbard, Karen Pal-

ermo and Jane Hall was clocked at 13:35.5 for a University record. The 3,200-meter quartet was composed of the same four women.

Ann Strehler took second in the shot put and Lori Davis was runner-up in the 200-meter dash. The team of Tracy Berry, Karen Kimbo, Jeanette Criglar and Linda Thomas was second in the 800-meter relay.

Wesley Harris was the only male to win an event as the Bears finished fourth with 78 points. Harris took the 400-meter dash in 49.7. Chuck Rohrer was second in the pole vault and Barry Surber was runner-up in the long jump for a WU freshman record of 22 feet, 5 1/2 inches. The quartet of Matt Green, Ken Moehringer, Rod Erd and Sean Seley was second in the Distance Medley Relay.

DePaul won the men's division with 158; followed by the host team, 139; the University of Missouri-Rolla, third with 117; WU; Principia, fifth with 44; and Maryville, sixth with 24.

Gluckman leads baseball Bears to victory

In the relatively short span of one month, the WU baseball Bears have become one of the top college baseball teams in the St. Louis area. They jumped from a 1-9 southern road trip to a 14-10-2 figure, or 13 victories, one loss and two ties in the last 30 days.

Instrumental in that streak has been junior pitcher Marc S. Gluckman, who has won seven games in a row, including six victories among the 13 played in the St. Louis area.

Gluckman's only loss was in the first game of the season, 1-0, at the University of Central Arkansas. The run scored in the first inning on a walk and a double.

The star lefthander has not lost since then. He won the team's only game on the road trip and unreeling a string of 38 consecutive innings without giving up an earned run.

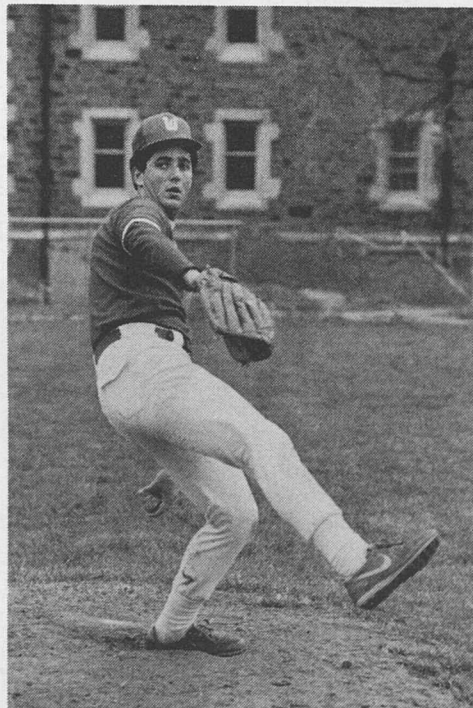
The streak was snapped by Maryville, but Gluckman still won and has continued his winning ways through April 19 when he beat the University of Missouri-St. Louis, 8-2. UMSL is a Division II school, which helped make the victory a little sweeter.

A 6'4", 215-pounder, Gluckman has an earned run average of 0.77 for 58 innings. He's given up five earned runs and a total of 25 hits, with the only extra base knocks being five doubles.

The smooth-throwing southpaw has fanned 75 batters over the same span and walked only 28. He also has four shutouts.

Rick Larsen, in his second year as head baseball coach, has spotted his star hurler against the best opposing teams, and, other than the hard-to-take opening loss, Gluckman has not let him down.

The Bears advanced to the Midwest Regional tournament last year and Larsen hopes to use Gluckman's strong pitching to go further this year.



Marc S. Gluckman

April 28-May 7

Calendar

Thursday, April 28

9:30 a.m. **Seventh Annual I. Jerome Flance Visiting Professor of Medicine Lecture**, "Increased Airway Responsiveness and Asthma," Roland H. Ingram, Jr., Francis Professor of Medicine and dir., Respiratory Division, Harvard Medical School. Clopton Aud., Wohl Clinic Bldg., 4950 Audubon.

1:10 p.m. **George Warren Brown School of Social Work Colloquium**, "Handicapped Awareness Presentation," Carol Wesley, dir. of social services, St. Mary on the Mound Rehabilitation Center, St. Louis, and Henry Hand, orientation and mobility instructor, Mo. Bureau for the Blind, Division of Northeastern Missouri. Brown Hall Lounge.

2 p.m. **Department of Chemical Engineering Seminar**, "Mass Transfer Studies at High Re and Sc Using Pyridine Nucleotides," John M. Radovich, assoc. prof. of chemical engineering, U. of Okla. 101 Lopata.

2:15 p.m. **Division of Orthopedic Surgery H. Relton McCarroll Visiting Professorship Lectures**, "Structure of Bone" and "Enchondral Ossification," Patrick Kelly, prof. of orthopedic surgery, Mayo Clinic. (Also Fri., April 29, 9 a.m.-4 p.m. "Bone Blood Supply;" "Fracture Repair," and "Articular Cartilage I, II and III," and Sat., April 30, 8:30-11 a.m., "Action of Hormone on Bone," and "Aging of Bone.") W. Pavilion Amphitheatre, Barnes Hosp.

4 p.m. **Neural Sciences Program Lecture**, "Molecular Properties of Sodium Channels Purified from Rat Brain," William Catterall, Dept. of Pharmacology, U. of Wash. Medical School. 928 McDonnell Medical Sciences Bldg., 4565 McKinley.

4 p.m. **Department of Chemistry Seminar**, "High-Resolution Two Dimensional NMR: Applications to Structural Analysis in Chemistry and Biochemistry," Larry Hall, U. of British Columbia. 311 McMillen.

4 p.m. **Phi Beta Kappa/Sigma Xi Lecture**, "On Social Science," Lewis Thomas, chancellor, Memorial Sloan-Kettering Cancer Center. Graham Chapel.

4 p.m. **School of Architecture Lecture**, "Fabric — A Spectrum of Design Opportunities," Juliette Smith, owner of Interwoven Designs, St. Louis, and her husband Dean, of Hellmuth, Obata and Kassabaum (HOK). 116 Givens.

7:30 p.m. **Society for International Development Meeting**. Stix House, 6470 Forsyth Blvd.

Friday, April 29

Noon. **Woman's Club of WU Spring Luncheon**, "Broadway in a Suitcase," a musical program. Junior League of St. Louis, 8250 Clayton Road. Cost \$7.50 for members; \$8 for members' guests. For information, call Mrs. Welty, 721-1015, or Betty Ryckman, 966-5974.

4 p.m. **Annual Missouri Academy of Science and Science Teachers of Missouri Symposium**, Walter H. Lewis, WU prof. of biology, on "Contributions of Herpetology to Modern Medicine and Dentistry." Lecture Hall 2, St. Louis U. (Also Sat., April 30, 3:15 p.m. "The Nuclear Weapons Freeze" panel discussion with WU professors Eugene B. Shultz Jr., prof. of technology and human affairs, and Dan I. Bolef, prof. of physics. Lecture Hall 1, St. Louis U.) For more information, contact Shultz at Campus Box 1106 or Ext. 5424.

7:30 p.m. **Inter-Varsity Christian Fellowship Lecture**, with Randy Greenwald, graduate student at Covenant Theological Seminary. Country Cafeteria, Wohl Center.

Saturday, April 30

9 a.m. **Neural Sciences Seminar Series**, "Orbital-frontal Cortex," Joseph Price, WU assoc. prof. of anatomy and neurobiology. 928 McDonnell Medical Sciences Bldg., 4565 McKinley.

Sunday, May 1

1:30 p.m. **Hillel Foundation Outing**. Shaw Park, north shelter. For transportation, meet at Hillel House, 6300 Forsyth Blvd. For more information, call 726-6177.

3 p.m. **Black Honors and Awards Program** with speaker Julian C. Mosley, WU instructor in surgery. Sponsored by Black Studies Program, Assoc. of Black Students and Student Educational Services. Edison Theatre.

Monday, May 2

3 p.m. **Center for Biotechnology Seminar**, "Macroscopic and Molecular Properties of Immobilized Enzymes," Don Clark, Calif. Inst. of Technology. 101 Lopata.

4 p.m. **Department of Psychology Colloquium**, "Perception of Polysyllabic Sequences by One- to Four-Month-Old Infants," Roanne Karzon, Dept. of Speech and Hearing, Central Inst. for the Deaf. 102 Eads.

8:15 p.m. **Asian Art Society Lecture**, "The Art of Japanese Kites," Tal Streeter, chairman of the sculpture dept. and assoc. prof. of the Division of Visual Arts, SUNY at Purchase. Steinberg Aud.

Wednesday, May 4

11 a.m. **The Alpha Kappa Circle of Omicron Delta Kappa All-University Honor's Assembly**, "The Youth Shaping the Future of this Country," Carl Officer, mayor of East St. Louis. Graham Chapel.

3:30 p.m. **Center for the Study of American Business Public Choice Workshop**, "The Legislative Imperative: Pursuing the Requisites of Power," Lawrence Dodd, Ind. U. 300 Eliot.

8 p.m. **WU Writers' Program Poetry and Fiction Reading**. Hurst Lounge, Duncker Hall.

Thursday, May 5

Noon. **The 31st Annual Alpha Omega Alpha Lecture**, "Biotechnology: Hype and Reality," William D. Phillips, Charles Allen Thomas Professor of Chemistry and chairman, WU Dept. of Chemistry. Clopton Aud., Wohl Clinic Bldg., 4950 Audubon.

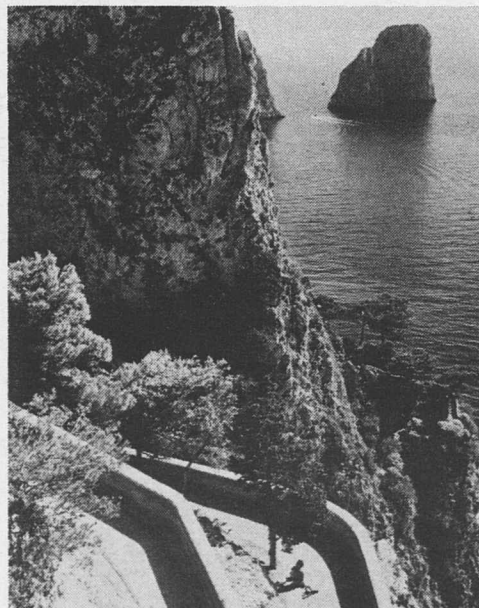
3 p.m. **Center for the Study of American Business Regulatory Workshop**, "The Residual Claim or the Entrepreneur's Reward for Self-Policing," Yoram Barzel, U. of Wash. 300 Eliot.

4 p.m. **Department of Chemistry Seminar**, "The Depolarization in Raman Spectroscopy: Its Origin and New Application," Dennis P. Strommen, prof. of chemistry, Carthage College. 311 McMillen.

Friday, May 6

Noon. **Twelfth Annual Thomas H. Burford Lecture in Thoracic Surgery**, "The Perplexing Spectrum of Aortic Dissection," Hassan Najafi, prof. and chairman, Dept. of Cardiovascular-Thoracic Surgery, Rush-Presbyterian-St. Luke's Medical Center, Chicago. Clopton Aud., 4950 Audubon.

6 and 8:30 p.m. **WU Association Film and Lecture**, "Sea Freighter to the Adriatic," Bill Sylvester, filmmaker. Graham Chapel. For more information, call 889-5122.



This breathtaking view of the Tyrrhenian Sea from the island of Capri is part of "Sea Freighter to the Adriatic," a film by William Sylvester, to be shown on Friday, May 6, in Graham Chapel. It is the last film of the travel lecture series sponsored by the WU Association. For information, call 889-5122.

Saturday, May 7

1 p.m. **Phi Beta Sigma Fraternity Forum** with Robert C. Watson, WU instructor in Black Studies; Robert C. Johnson, WU asst. prof. of black studies, and Willie Blue, dir. of financial aids at St. Louis U. discussing the problem of retention of black faculty at universities. Ann Whitney Olin Women's Bldg. Lounge.

Performing Arts

Thursday, April 28

8 p.m. **Acme Theatre and Hillel Foundation presents** the St. Louis premiere of Ronald Ribman's play *Cold Storage*. Hillel House, 6300 Forsyth Blvd. (Also April 30 and May 1, same time, Hillel.) Gen. admission \$4; students, senior citizens and groups, \$3. For more information, call 726-6177.

Friday, April 29

8 p.m. **Edison Theatre presents** the St. Louis Repertory Dancers in Concert. Members are WU faculty and guest artists Mary Jean Cowell, Susan Gash, Suzanne Grace, Gale Ormiston, Anna Marie Schary and Satoru Shimazaki, Artistic Director Annelise Mertz, and Craig Gabrian, Webster University. (Also Sat., April 30, and Sun., May 1, same time, Edison.) Gen. admission \$7; WU faculty, staff and area students \$5; WU students \$4. For more information, call the Edison Theatre box office at 889-6543.

Saturday, May 7

8 p.m. **Edison Theatre presents** Trevor Pinnock with the English Concert. Pinnock, harpsichordist, returns with a group of six musicians famous for their recordings and performances of baroque music throughout Europe. Gen. admission \$7; WU faculty, staff and area students \$5; WU students \$4. For more information, call the Edison Theatre box office at 889-6543.

Music

Sunday, May 1

8 p.m. **Department of Music Collegium Musicum Concert**, "Love Songs of the 16th Century," with Bruce Carvell conducting works by Marenzio, Monteverdi and Dowland. Graham Chapel.

Tuesday, May 3

8 p.m. **Department of Music Composers' Forum**. Compositions by graduate students Chris Meister, Robert Fruehwald, Greg Danner and Barbara Payne Davidson. Edison Theatre.

Thursday, May 5

7:30 p.m. **Department of Music Jazz Festival** with Singleton Palmer and his Dixieland Six and the WU Jazz Ensemble, Robert Edwards, instructor of music, conductor. Admission \$7.50. Edison Theatre. Benefit of the American Cancer Society.

Friday, May 6

8 p.m. **Department of Music Graduate Voice Recital**, with Elizabeth Neiman, soprano. Ann Whitney Olin Women's Bldg. Lounge.

Saturday, May 7

1-4 p.m. **Department of Music Guitar Master Class** featuring Michael Newman. Blewett B-8. St. Louis Guitar Society members can audit without charge, and members can perform for \$5; all others \$5 to audit and \$10 to perform. To sign up, call Alan Rosenkoetter, 889-5543.

Films

Thursday, April 28

7 p.m. **German Film Series**, "Was ich bin, sind meine Filme." Free. Language Lab., 210 Ridgley.

Friday, April 29

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

Friday, May 6

7 p.m. and 8:40 p.m. **WU Filmboard Series Double Feature**, "Mad Max" and "The Road Warrior." Films also shown at 10:20 p.m. "Max" and 12:05 a.m. "Warrior." \$2. Brown Hall Aud. (Also Sat., May 7, 7 and 10:20 p.m. "Max" and 8:40 p.m. and 12:05 a.m. "Warrior." Brown Hall Aud.)

Sports

Monday, May 2

1 p.m. **Baseball**, WU vs. Maryville College. Utz Field.

Tuesday, May 3

3 p.m. **Baseball**, WU vs. Concordia Seminary. Utz Field.

Exhibitions

"Core Exhibition," work by freshman and sophomore students of the WU School of Fine Arts. (Opening: 5-7 p.m. Sun., May 1) Through August. Bixby Gallery. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends.

"The Epic Tradition: Rare Books and Uncommon Editions." Through April 29. Special Collections, Olin Lib., level five. Open 8:30 a.m. to 5 p.m. weekdays.

"Modern Drawings and Watercolors." Through May 29. Print Gallery, WU Gallery of Art. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

"Dormitory Life at WU, 1905-1955." Level 3, Olin Lib. Through June 7. Open regular library hours.

"Bachelor of Fine Arts Exhibition." Opening reception, May 1, 5-7 p.m. Through May 8. Upper and Lower Gallery. WU Gallery of Art.

Calendar Deadline

The deadline to submit items for the May 12-21 calendar of the *WU Record* is April 28. 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 include your name and telephone number. Address items to King McElroy, calendar editor, Box 1142.

ESL courses offered

A four-week course for WU's international graduate students who will be teaching assistants will be offered by the International Office and the Summer School beginning July 18.

"Communication Skills for International Graduate Teaching Assistants" will be an in-depth study of the fundamentals of lecture preparation and speech strategies involved in classroom teaching. Participants must be recommended by their academic departments and obtain permission from Patricia Eldadah, coordinator of the English as a Second Language program.

The course will meet from 8:30 to 10:30 a.m., Monday-Friday, from July 18 to August 12. The tuition is \$200.

The International Office is also offering two "Intensive English" sessions, June 20-July 15 and July 18-August 12, for intermediate-level and high intermediate-level students. Both sessions will meet 8:30 a.m.-12:30 p.m. Monday-Friday. Tuition is \$375 for each course.

For more information on English as a Second Language courses, call Patricia Eldadah, International Office, Stix International House, 6470 Forsyth Blvd., at 889-5966.

AIIS fellowships

The American Institute of Indian Studies (AIIS) has announced a variety of fellowships for research in India available for the 1984-1985 academic year.

Applicants should be engaged in research or teaching at the college level and should hold a doctorate or equivalent degree. Applications must be submitted to AIIS, 1130 E. 59th St., Chicago, Ill., 60637, by July 1, 1983. The awards will be announced in the spring of 1984.

The awards, which may be held for three to 10 months, include senior research fellowships, faculty training fellowships, post-doctoral study tour awards, library service fellowships, professional development fellowships, junior fellowships and translation projects.

For more information, contact Ruth Iyob, Office of International Studies, Ext. 5958.