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## Washington University Record, February 15, 1990

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Biologist Owen Sexton, Ph.D., scoops up a bullfrog tadpole that, because of its large size, survived being lunch for the fish in Tyson's Railroad Pond.

## Upsetting Mother Nature

### Increase in fish-laden ponds threatens amphibians

You've got the VCR, the MBA, the BMW, the 1.5 children, the raises, the perks, the promotions — you're even thirtysomething. But something's missing.

You want a piece of the American Dream. So you buy a few acres in the country, miles from the hassle of city life. You build a cabin, shell out three grand and have a bulldozer scoop out an acre-sized pond. Ah, the woods, fireflies, the chorus of frogs croaking at twilight and fish jumping in the pond.

There's something wrong here, says Owen Sexton, Ph.D., professor of biology.

"Those who wish to have a pond teeming with wildlife must realize that if they stock the pond with fish they will eliminate much of their amphibian population — frogs, salamanders and the like," says Sexton, a wildlife biologist. "They may see bass jump at dusk, but the croaking of frogs will be muted. The fish eat the amphibian young. When you re-create or revise Mother Nature, you can't have it all."

Yuppie Thoreaus intent on building their version of Walden's Pond may wish to consider the anthem of the Rolling Stones: "You can't always get what you want."

You get what you breed, says Sexton.

New-age naturalists may not realize that stocking their ponds with fish can upset Nature's checks and balances. Tinkering with the ecosystem on the microscale as well as the macroscale has significant impacts, Sexton says. And, with pond-building on the increase nationwide, amphibians are being threatened.

While Sexton's research and observations indicate a generally healthy population of amphibians, some biologists have voiced concern over possibly declining numbers of toads, frogs and salamanders in various parts of the world. Any number of factors — acid rain, pesticide spill-off, competition from fish or the actual consumption of the animals themselves have been raised as contributors. So far there is no consensus about how serious the problem may be. To address that

question, some of the nation's researchers are holding a meeting, "Declining Amphibian Populations — A Global Phenomenon?" Feb. 18 in Irvine, Calif.

Sexton, who specializes in amphibian populations and ecology, has studied many ecosystems worldwide. In the late 60s the scientist built three ponds — Railroad Pond, New Pond and Salamander Pond — at Washington University's Tyson Research Center, a wildlife refuge center located approximately 30 miles west of St. Louis. Sexton built the ponds specifically to study amphibians. Fourteen species of frogs, salamanders and newts lived in and near the ponds in various stages of their development.

**"When you re-create or revise Mother Nature, you can't have it all."**

— Owen Sexton

Then, natural disaster struck. Nearly five inches of rain fell in the area in the spring of 1979, spilling the Meramec River, which meanders less than one-third of a mile from the ponds, over its banks. The flood introduced several of the 89 species of fish found in the river — the highest number of fish fauna of any stream in the state — into Railroad Pond and New Pond. Another flood of the Meramec in December 1982 immersed an outlet of Railroad Pond, but left the other two bodies of water unaffected.

The result: Silent spring for Railroad Pond, which over the next four years lost 12 of its original 14 amphibian species to the six species of fish that colonized it. The biggest villain was the green sunfish, a voracious predator, although bluegill, bass, bullheads, minnows and golden shiners also played a role.

"What is significant," the biologist says, "is that New Pond, invaded by

minnows and golden shiners, suffered little loss of amphibian life, and the uninvaded Salamander Pond, none. The introduction of fish fauna was happenstance, but the principle applies whether you're talking about a fish bowl or Lake Erie. When you build a pond, you get what you bargain for."

Sexton published a paper on his observations, titled "A Qualitative Study of Fish-Amphibian Interactions in 3 Missouri Ponds," in *Transactions, Missouri Academy of Science*. His findings are particularly relevant to the "back to the country" trend and a resurgence in pond-building that has occurred in the last several years of the 1980s.

Americans have been returning steadily to the country in the past decade, according to the United States Department of Agriculture (USDA). Since 1986, the USDA reports, the population in rural areas has grown faster than in urban areas. In 1988, 64 million Americans — one out of four — lived in rural areas, defined as open countryside and places with under 2,500 residents that are not in the suburbs of large cities. Yet of these millions, slightly less than five million (2 percent of the entire U.S. population) live on farms.

And what will these urban refugees do with their "green acres?" They may well build ponds. According to the USDA, nearly 20,000 ponds were built across the nation between 1986 and 1988. In Missouri alone, the state's Department of Conservation estimates that 1,500 to 2,000 ponds are built annually. In 1989 the department stocked 750 of these ponds with fish. The figures are only for agricultural producers who cost-share with the government to enhance conservation efforts. Untold numbers of ponds are being scooped out of the countryside and in suburbia by those who want to create their own environments.

While it is difficult to pinpoint what kinds of people are actually moving to the country, the present trend has its roots in the 1970s, says

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## Maya Angelou will speak here

Best-selling author Maya Angelou, hailed throughout the world as one of the great voices of black literature, will speak at 4 p.m. Thursday, Feb. 22, in Graham Chapel.

Seating for this lecture, which is part of the Assembly Series, will be reserved primarily for members of the Washington University community with identification cards. Seating for the general public will be available beginning at 3:45 p.m. The lecture is part of a series of University events in February commemorating Black History Month.



Maya Angelou

Angelou holds a lifetime appointment as the first Reynolds Professor of American Studies at Wake Forest University in Winston-Salem, N.C. A native St. Louisan, she has published 10 best sellers, including the autobiographical *I Know Why the Caged Bird Sings* (1970), which earned a National Book Award nomination and was the subject of a two-hour CBS television special in 1979. Angelou herself was the subject of a one-hour television interview in 1988 with Bill Moyers on PBS.

She began writing after being encouraged by friends, including the late James Baldwin, who heard Angelou's stories of a childhood spent shuttling between rural segregated Stamps, Ark., where her devout grandmother ran a general store, and St. Louis, where her worldly, glamorous mother lived. Her childhood up to age 16 was chronicled in *I Know Why the Caged Bird Sings*. Angelou also has written screenplays and television programs.

For more information on the lecture, call 889-4620.

## Moral theologian to discuss 'tensions in Catholic Church'

A priest who was removed from the theology faculty at The Catholic University of America because of his controversial views on sexual morality will discuss "Tensions in the Contemporary Roman Catholic Church" during an Assembly Series lecture.

The Rev. Charles E. Curran, Visiting Firestone Professor of Religion at the University of Southern California, will deliver the CIRCuit lecture at 11 a.m. Wednesday, Feb. 21, in Graham Chapel. The lecture is free and open to the public.

Curran was removed from the theology faculty at the Washington,



Charles E. Curran

D.C., university in 1986 after the Vatican condemned his writings on sexual and medical ethics in which he questioned church policies on birth control, abortion, homosexuality, premarital sex and divorce.

The District of Columbia Superior Court upheld the university's decision last year, ruling Curran could not expect the university to defy the

*Continued on p. 2*





Freshman Tory Peters of Pacific, Mo., qualified for the March NCAA Division III National Championships with a 2:13.85 clocking in the 200-yard butterfly earlier this winter. Peters will compete in seven events this week during the UAA swimming and diving championships being held at Millstone Pool.

#### Making waves

## UAA swimming, diving championships here

They're making waves at the Athletic Complex this week as Washington University plays host to the University Athletic Association swimming and diving championships. The four-day event, which began with diving competition on Wednesday, Feb. 14, continues through Saturday evening at Millstone Pool.

The UAA, now three years old, is one of the premier NCAA Division III swimming conferences in the nation. At last year's national meet, an astounding total of 47 UAA swimmers earned All-America status, with five participants winning individual national championships in their event.

On the women's side, Emory University finished sixth in the nation a year ago, while Johns Hopkins University placed ninth, and the University of Rochester came in 20th. In the men's standings, Johns Hopkins placed ninth, Emory finished 13th,

and Case Western Reserve University placed 20th. Each of the nine UAA schools had at least one student/athlete earn All-America honors.

With this year's national meet only a month away, the UAA competition gathers additional significance. For many participants, this week will be the last full-fledged opportunity to register a national-qualifying time. Most of the 300 swimmers that will be present have rested and tapered to ensure the best times possible. Last year's UAA championships featured 125 national-qualifying performances.

Head coach Martha Tillman's Bears will be seeking to improve upon last season's fifth-place men's finish and fourth-place women's showing at UAA championships. The Red and Green are led on the women's side by a pair of All-Americans — Jennifer Collins, Littleton, Colo., and Chris Look, Woodstock,

N.Y. In addition, freshman Tory Peters, Pacific, Mo., and sophomore diver Becky Hanking, Shelbyville, Ky., will press for conference titles.

The men's team features a trio of first-rate freestylers with seniors Boadie Dunlop, St. Paul, Minn., Karl Degenhardt, Brentwood, N.Y., and Steve Wisser, St. Louis. In addition, Greg Sundstrom, Madison, Wis., and Stephen Henry, Houston, will vie for conference honors.

The men's team currently is ranked fourth in the nation, and the women's team is seventh in the Division III rankings.

Diving preliminaries began at 7 p.m. Wednesday at Millstone Pool. The following three days each will feature two sessions — trials beginning at 11 a.m., and finals starting at 6:30 p.m. There is no admission charge.

For information, call 889-5185.

## American Indian dancers to perform; all shows sold out

Dances honoring the spirit world, celebrating the earth and showcasing warrior bravura will be performed by the American Indian Dance Theatre at 8 p.m. Feb. 23 and 24 in Edison Theatre. The dance company also will perform a children's matinee at 2 p.m. Feb. 24. All shows are sold out.

The two-year-old dance theatre is the first of its kind — a professional company of American Indians who perform a broad repertory of American Indian dances, both authentic and theatrically appealing. The troupe's goal is to share the rich heritage of American Indian culture with the world by presenting it in a viable stage format that travels outside tribal reservations. The company's 21 dancers represent 17 different tribes from 11 states and two provinces of Canada.

The performers wear a breathtaking variety of feathers, furs, buckskin, bells, porcupine quills, intricate beadwork, turquoise and silver, all handmade by the dancers and their families or passed on to them by their ancestors.

Music is performed on traditional instruments made from hollowed logs, clay pots, leather hides, gourds, deer hooves and pieces of wood and bone. The beat of the drum dominates the evening.

Among the dances to be performed are the Hoop Dance, in which soloist Eddie Swimmer, a Cherokee, keeps 42 hoops awhirl to create the shapes of plants and animals, expressing the interconnection of all living things. The eagle, sacred to all tribes, is revered in both a northern plains and a Pueblo version of the Eagle Dance, in which the great bird's image emerges in the male dancers' brilliant plumage.

The company was founded in 1987 by Barbara Schwei, a New York concert producer, and Hanay Geiogamah, a playwright and director based in Los Angeles and a member of the Kiowa/Delaware tribes. Schwei and Geiogamah spent several months traveling through the western United States talking to dancers and musicians at dance competitions and auditioning members for the troupe.

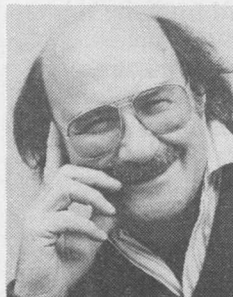
American Indian Dance Theatre is co-presented by Dance St. Louis and Edison's "OVATIONS!" series.

## Playwright advises production of his work

Antonio Skarmeta also will discuss Chile's political situation from a poet's perspective

The local premier of "Burning Patience," a play by Chilean playwright Antonio Skarmeta, will be performed at 8 p.m. Feb. 23-25 and March 2-4 in the Drama Studio, Room 208 Mallinckrodt Center.

Skarmeta, a visiting professor in the Department of Romance Languages and Literatures, also will give a lecture, titled "How Can You Overthrow a Dictator With Poetry? The Chilean Case," at 4 p.m. Friday, Feb. 16, in the Drama Studio, Room 208 Mallinckrodt Center.



Antonio Skarmeta

Skarmeta will oversee production of the play, which is being directed by Jeffery Matthews, artist-in-residence in the Performing Arts Department. The University's staging of "Burning Patience" is the first college production the playwright has advised.

"Burning Patience," which has been performed in New York, San Francisco, Los Angeles and Madison, Wis., was made into a novel and a movie that was widely distributed in Western Europe.

Skarmeta's work is particularly well known in France and Germany, where his plays have been aired on television as well as performed in theatres. The author had been living in exile in West Germany until 1985, when he returned to Chile for the first time since the country's 1973 military coup.

"Burning Patience" is a play about Pablo Neruda, a Chilean poet who won the 1971 Nobel Prize in literature. Skarmeta shows Neruda's human side, as seen through his relationships with several residents of a small community on Isla Negra in Chile.

The play also is "a poetic perspective of the rise of Chile's socialist democracy and the brutal fascist coup that followed," says Matthews. "Although men may be crushed," he adds, "the power of their poetry will

be rekindled in the hearts of the young."

The Performing Arts Department production includes Dan Shea, Ph.D., professor of English, as Neruda, and students Michael Levinson as Mario Jimenez, Jessica Schwartz as Beatrice Gonzales and Robin Margolis as Rosa Gonzales. Shea acts locally and appears on television commercials.

During his lecture, Skarmeta also will read from his current work, titled *The Referendum*, which examines the political situation in Chile from a poet's perspective.

Randolph D. Pope, Ph.D., professor in Romance languages and literatures, refers to Skarmeta as a "world-class figure in literature."

Tickets for the play are \$7 for the general public; \$5 for senior citizens, Washington University faculty and staff and students. For more information, call 889-6543.

For more information on the lecture, which is free and open to the public, call 889-5858.

## Church —

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Vatican's judgment that he was unsuitable to teach Catholic theology. The Catholic University is chartered by the papacy and its theological school grants Vatican-authorized degrees. Curran is the first American ever to be so disciplined by Rome.

Considered the best-known Roman Catholic moral theologian in the United States, Curran is the author of 20 books. In 1972 Curran was named the first recipient of the John Courtney Murray Award of the Catholic Theological Society of America for distinguished achievement in theology. He is president of the American Theological Society.

CIRCuit, the Council for Inter-religious Concerns, is a Washington University student group that promotes discussions among students of various religious backgrounds. Curran is the 14th CIRCuit lecturer.

For more information on the lecture, call 889-4620.



# NOTABLES

**Sarah Barker**, artist-in-residence in the performing arts, participated in the regional conference of the Education Network in Washington, D.C. She is a managing director of the non-profit organization dedicated to forwarding education through partnership and leadership training. She also gave presentations on the Alexander Technique to Christian Northeast Hospital's physical therapy department and the St. Louis Piano Teacher Round Table.

**Kathleen F. Brickey**, J.D., George Alexander Madill Professor of Law, presented a paper titled "RICO Forfeitures as 'Excessive Fines' or 'Cruel and Unusual Punishments'" at the Villanova Law Review 24th Annual Symposium. The subject of the symposium was "RICO: Something For Everyone." Her paper will be published in a symposium issue of the Villanova Law Review. Her article "Tainted Assets as Attorneys' Fees — The Money Laundering Conundrum" has been reprinted in the Criminal Practice Law Review.

**James G. Miller**, Ph.D., professor of physics and research professor of medicine, presented an invited lecture at the 1989 Ultrasonics Symposium held in Montreal. The topic of the lecture, which summarized 15 years of collaborative research between Washington University's Department of Physics and Cardiovascular Division, was "Myocardial Tissue Characterization: Clinical Confirmation of Laboratory Results."

## Noted cardiologist Edward Massie dies

Edward Massie, M.D., a noted cardiologist and professor emeritus of clinical medicine at the School of Medicine, died Feb. 5 of systemic amyloidosis, which causes multiple organ failure. He was 79.

"Dr. Massie has been devoted to the Washington University Medical Center for more than 50 years," said Burton E. Sobel, M.D., The Tobias and Hortense Lewin Professor of Cardiovascular Diseases. "He is an internationally appreciated figure who by acclamation was an acknowledged member of an elite group of America's finest cardiologists along with Paul W. White and Samuel A. Levine. His compassion for patients, dedication to teaching, commitment to scholarship and myriad contributions to cardiology and to our medical center are unrivaled."

Massie was a pioneer in using computers to interpret electrocardiograms. He also was instrumental in establishing the medical center's first coronary care unit and Jewish Hospital's Heart Station, serving as its director as well as the one at Barnes.

Massie received his bachelor's and medical degrees from Washington University and joined the faculty at the School of Medicine in 1938.

He was well-known for his fund-raising activities at the School of Medicine and in 1985 received the Distinguished Alumnus Award from the University Alumni Association. An award for top cardiology students and a research endowment fund are established in his name, as well as an annual cardiology lecture.

A book Massie co-authored in 1951, *Clinical Scalar Electrocardiography*, recently appeared in its eighth edition and has been translated into several languages. He also published more than 80 papers.

Massie served in various capacities for numerous professional organizations. He was a founding member of the Scientific Council of the American Heart Association, a former

**Henry I. Schvey**, Ph.D., chair of the Performing Arts Department, co-edited a collection of essays titled *New Essays on American Drama* with Gilbert Debusscher, chair of the English department at the Free University of Brussels. The volume, which has been published by Rodopi (Amsterdam and Atlanta), contains essays on American drama from O'Neill to the present and includes an introduction and an essay by Schvey.

**Murray L. Weidenbaum**, Ph.D., Edward Mallinckrodt Distinguished University Professor of economics and director of the Center for the Study of American Business, gave a lecture on the Reagan presidency to the White Burkett Miller Center of Public Affairs at the University of Virginia, Charlottesville. He also gave the Seventh Annual Oppenstein Brothers Lecture at the University of Missouri-Kansas City on "Economic Solutions to the Problems of the Bush Administration."

### Have you done something noteworthy?

Have you: Presented a paper? Won an award? Been named to a committee or elected an officer of a professional organization? The Washington University Record will help spread the good news. Contributions regarding faculty and staff scholarly or professional activities are gladly accepted and encouraged. Send a brief note with your full name, highest-earned degree, current title and department along with a description of your noteworthy activity to Notables, Campus Box 1070, or by electronic mail to p72245SS at WUVMC. Please include a phone number.

treasurer of the board of directors of the American College of Cardiology, and a fellow of the American College of Physicians.

He taught at the School of Medicine until 1980 and retired from medical practice in 1988.

He is survived by his wife, Felice Massie of Clayton; two sons, Henry Massie, M.D., and Barry Massie, M.D., both of San Francisco; a brother, Joel Massie of St. Louis; and three grandchildren.

A memorial service will be scheduled. The family requests that memorial contributions be sent to the Washington University Department of Internal Medicine, Box 8121, 660 S. Euclid Ave., St. Louis, MO 63110.

## RECORD

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## Valorie Hambley named assistant dean for medical school administration

Valorie J. Hambley, administrator of the Department of Pharmacology, has been named assistant dean for administration at the School of Medicine.

The appointment, effective Feb. 1, was announced by William A. Peck,



Valorie J. Hambley

M.D., vice chancellor for medical affairs and dean of the School of Medicine. This is the second appointment to be made in an administrative reorganization at the School of Medicine.

Hambley's primary responsibilities in this new post are research administration and human resource management.

"Valorie Hambley brings superior talent to the administration of our institution," Peck said. "She will play a pivotal role in our efforts to enhance management efficacy."

For the last seven years, Hambley has served as the pharmacology

department's administrator, responsible for handling grants, personnel, payroll and finances. She also acted as a liaison between researchers, University administration and outside funding agencies, and for a brief period worked as interim co-business manager for the Office of Animal Laboratory Care.

She serves on several committees, including an ad hoc committee of the Executive Faculty for enhancing the University's computerized administration system, the grants budgeting subcommittee of the School of Medicine's administrative systems group, and the University's staff/administration salary study committee.

Hambley joined the administrative staff of the pharmacology department in 1976. She became an administrative associate in 1982 and a year later was named departmental administrator.

Hambley received a bachelor's degree in business management from the University of Missouri-St. Louis in 1982 and a master's degree in health services management from Webster University in 1988.

## Introductions to new faculty

The Record is featuring a weekly series profiling new faculty on the Hilltop and Medical campuses. The profiles are of faculty who joined the University community between January 1989 and September 1989.

**Berengere Marie de Martinville**, M.D., assistant professor of pediatrics in the Division of Medical Genetics at the School of Medicine, comes to St. Louis from the University of Minnesota, where she had been an assistant professor in genetics and laboratory medicine and pathology. She received her medical degree in 1973 and a master's in human biology in 1978, both from the University Claude Bernard in France. Her research focuses on analysis at the molecular level of the mutations leading to the various forms of X-linked muscular dystrophies with particular emphasis on the Duchenne

and Becker types. She also is involved with gene mapping of the short arm of the human X chromosome and particularly of the region surrounding the ocular albinism locus.

**Sandra S. Hale**, Ph.D., assistant professor of psychology, received her doctorate in psychology in 1988 from the University of Wisconsin, Milwaukee, where she was initiated as a member of Phi Kappa Phi. In 1988 she received the American Psychological Association Dissertation Research Award and the association's Travel Award. She earned her master's degree in psychology in 1983 and a bachelor's in linguistics in 1979, both from the University of California, Riverside. Her research interests include cognitive development in children and older adults, especially changes in information-processing speed.

## Ponds — continued from p. 1

Calvin Beale, senior demographer with USDA.

"In the '70s, there were actually more urban dwellers giving up that life for the country, especially in the Midwest," Beale says. "The thing to do seemed to be to buy five acres around old farmsteads and commute to work. In the '80s, we see a different concentration, a different impulse. Today, those who are purchasing in the country may be buying the acreage more for a second home. The acreage often comes in larger tracts. What is happening now is a result of the high proportion of urban people, their affluence and the availability of lots of land in the country."

Sexton constructed his ponds in the woods of Tyson Research Center to be deliberately fish-free so he and his graduate students could study the colonization of amphibian species. He introduced certain salamanders, such as the spotted salamander and the wood frog, to see how their populations thrived. Other amphibian species, such as the narrow-mouth salamander, the newt, spring peepers,

green frogs and tiger salamanders, will generally invade a pond on their own. But when fish were inadvertently introduced, the amphibian population dwindled.

"For a complete wildlife experience, a landowner may wish to consider building a pond without fish," Sexton says. "It's an interesting experience to see what kind of wildlife you can court. Not every pond needs fish by any means. On the other hand, a pond without fish is likely to attract more biting and stinging creatures. In an endeavor such as this, you make your own compromises. But it is heartening to see the appreciation for habitat so many conservation-minded people are fostering."

For those tens of thousands of Americans building ponds each year, Sexton suggests considering keeping their backyard Waldens fish-free.

"Amphibians play a significant role in the ecosystem," he says, "yet they're often taken for granted or overlooked."

*Tony Fitzpatrick*



# CALENDAR

Feb. 15-24

## LECTURES

### Thursday, Feb. 15

**Noon. Dept. of Genetics Spring Seminars.** "Molecular Genetic Studies of the Drosophila Visual System," Lawrence Zipursky, Dept. of Biological Chemistry, UCLA School of Medicine. McDonnell Medical Sciences Bldg., Room 816.

**1:10 p.m. George Warren Brown School of Social Work Spring Lecture Series.** "Voluntary School Desegregation: St. Louis, a Model Case Study," Susan Uchitelle, executive director, Voluntary Interdistrict Coordinating Council of St. Louis. Brown Hall Lounge. For more info., call 889-6606.

**2:30 p.m. Dept. of Mechanical Engineering Seminar.** "The Use of a Priori Estimates in Finite Element Analysis," Barna A. Szabo, WU Albert P. and Blanche Y. Greensfelder Professor of Mechanics. Room 100, Cupples II.

**3:45 p.m. Dept. of Anthropology Colloquium.** "Variations on a Theme: The Development of Mississippian Subsistence Strategies as Seen From Moundville," Margaret Scarry, Dept. of Anthropology, Florida State U. Room 101, McMillan Hall.

**4 p.m. Assembly Series Lecture.** "The Making of Masculinities: Issues for Men Today," Harry Brod, visiting assoc. prof. of gender studies and philosophy, Kenyon College. May Aud., Simon Hall. For more info., call 889-4620.

**4 p.m. Dept. of Earth and Planetary Sciences Seminar.** "Late Cenozoic Evolution of Global Climate: Ice Volume, Ocean Circulation and CO<sub>2</sub>," Maureen Raymo, assoc. scientist, U. of Melbourne, Australia. Wilson Hall, Room 102.

**4 p.m. Dept. of Chemistry Seminar.** "Solving Structural Problems With Solids NMR: From Captive Intermediates to Exchange-Coupled Polyhydrides," Kurt Zilm, Dept. of Chemistry, Yale U. McMillan Lab, Room 311.

**4 p.m. Dept. of Pathology Seminar.** "Biology and Pathology of Integrin Adhesive Protein Receptors," Samuel Santoro, WU Dept. of Pathology. 3rd Floor Aud., Children's Hospital.

### Friday, Feb. 16

**Noon. Dept. of Cell Biology and Physiology Noon Seminar.** "Actin Binding Proteins From Early Drosophila Embryos: A Role in Embryonic Organization," Kathy Miller, WU Dept. of Biology. Cell Biology Library, Room 4914, South Bldg. For more info., call 362-6945.

**4 p.m. Dept. of Romance Languages and Literatures Lecture.** "How Can You Overthrow a Dictator With Poetry? The Chilean Case," Antonio Skarmeta, Chilean playwright and WU visiting prof. of Romance languages and literatures. Mallinckrodt Center Drama Studio, Room 208. For more info., call 889-5858.

**8:30 p.m. Hillel Foundation Lecture.** "A Mensch Among Men," Harry Brod, visiting assoc. prof. of gender studies and philosophy, Kenyon College. Hillel Foundation B'nai B'rith, 6300 Forsyth Blvd. For more info., call 726-6177.

### Saturday, Feb. 17

**9 a.m. Saturday Morning Neural Sciences Seminar.** "Drosophila's Period Gene and Its Relatives: Molecular Neurobiology of Circadian Rhythms," Jeffery C. Hall, Dept. of Biology, Brandeis U. Erlanger Aud., McDonnell Medical Sciences Bldg.

**11 a.m.-12:30 p.m. Master of Liberal Arts Program and University College Saturday Seminar.** "Time and the Physicist," Michael Friedlander, WU prof. of physics. Women's Building Lounge. For more info., call 889-6802.

### Monday, Feb. 19

**4 p.m. Dept. of Biology Seminar.** "Calmodulin, Tubulin and Actin Gene Expression During the Quick-Change Act of Naegleria," Chandler Fulton, Dept. of Biology, Brandeis U. Room 322, Rebstock Hall.

**4 p.m. Dept. of Microbiology and Immunology Seminar.** "Immunotoxins in Lymphoma and AIDS," Ellen Vitetta, Dept. of Microbiology, Southwestern Medical Center, Dallas, Texas. 3rd Floor Aud., Children's Hospital.

### Tuesday, Feb. 20

**Noon. Dept. of Earth and Planetary Sciences Seminar.** "Style and Balance of Extensional Structures," Richard H. Groshong Jr., Dept. of Geology, U. of Alabama, Tuscaloosa. Room 102, Wilson Hall.

**5 p.m. Dept. of Comparative Literature Western European Studies Program Lecture.** "Modernism, Late Modernism, Postmodernism," Matei Calinescu, prof. of comparative literature, Indiana U. Brown Hall Lounge.

**8 p.m. Washington University Gallery of Art Lecture.** "Crack the Mirror: The Images of Black Artists in the Wake of the 21st Century," Leslie Hammond, prof. of history, Maryland Institute, College of Art. Co-sponsored by African and Afro-American Studies. Steinberg Hall Aud. For more info., call 889-4523.

**8 p.m. Dept. of Romance Languages and Literatures Lecture.** "The Contemporary Latin

American Novel," Abel Posse, Argentine writer. Hurst Lounge, Duncker Hall.

### Wednesday, Feb. 21

**11 a.m. Assembly Series CIRCUIT Lecture.** "Tensions in the Contemporary Roman Catholic Church," The Rev. Charles Curran, Visiting Firestone Professor of Religion, U. of Southern California. Graham Chapel. For more info., call 889-4620.

**12:10 p.m. Dept. of Medicine Rheumatology Seminar.** "Inflammation of the Eye," Fred C. Chu, WU Dept. of Ophthalmology. 5th Floor Conference Room, Wohl Clinic.

**3 p.m. Women's Studies Program Colloquium.** "Jealousy as an Impediment to Law and Order: From the History of the Early Mongols," Isenbike Togan, WU visiting assoc. prof. of history. Co-sponsored by Dept. of History. Women's Bldg. Lounge. For more info., call 889-5102.

**4 p.m. Dept. of Physics Colloquium.** "The Voyager Grand Tour," William H. Smith, WU prof. of chemistry. Room 204, Crow Hall.

**5 p.m. Graduate Biotechnology Program Lecture Series.** "Monoclonal Antibodies: Analytical Applications," Julian Fleischman, WU School of Medicine assoc. prof. of molecular microbiology. Co-sponsored by Graduate School of Arts and Sciences and University College. Brown Hall, Room 118. For more info., call 889-4624.

### Thursday, Feb. 22

**3:45 p.m. Dept. of Anthropology Colloquium.** "Origins of Agriculture and Villages in Levant," Andrew Moore, prof. of anthropology, Yale U. Room 101, McMillan Hall.

**4 p.m. Assembly Series Association of Black Students/Council of Students of Arts and Sciences Lecture** by Maya Angelou, Reynolds Professor of American Studies, Wake Forest U., and author of *I Know Why the Caged Bird Sings*. Graham Chapel. Seating for the general public will be limited; the general public will not be admitted before 3:45 p.m. For more info., call 889-4620.

**4 p.m. Neural Science Seminar.** "Parallel Pathways in Vision," Peter Schiller, Dept. of Brain and Cognitive Sciences, M.I.T. Room 928, McDonnell Medical Sciences Bldg.

**4 p.m. Dept. of Pathology Seminar.** "Large Scale Physical Mapping of Human Chromosomes," Maynard Olson, WU Dept. of Genetics. 3rd Floor Aud., Children's Hospital.

**4:15 p.m. Dept. of Philosophy Colloquium.** "Imminent Truth," Michael D. Resnik, University Distinguished Professor, U. of North Carolina. Brown Hall Lounge.

**8 p.m. Dept. of English Colloquium.** "What is Truth? Said Jestig Bacon; or, The Pleasures of the Webby," Linda Salamon, WU prof. of English and dean, College of Arts and Sciences. Hurst Lounge, Duncker Hall. For more info., call 889-5190.

### Friday, Feb. 23

**Noon. Dept. of Cell Biology and Physiology Noon Seminar.** "Isolation of Endosomes Using High Gradient Magnetic Affinity Chromatography," Jacques Baenziger, WU School of Medicine Dept. of Pathology. Cell Biology Library, Room 4914, South Bldg.

**Noon. Dept. of Surgery Transplant Seminar.** "Working Toward Achieving Successful Xenotransplantation," Fritz Bach, Dept. of Laboratory Medicine and Pathology, U. of Minnesota. 3rd Floor Aud., Children's Hospital.

### Saturday, Feb. 24

**9 a.m. Saturday Morning Neural Sciences Seminar.** "Why Hodgkin and Huxley Were So Disappointed in Their Work," Ed McCleskey, WU Dept. of Cell Biology and Physiology. Erlanger Aud., McDonnell Medical Sciences Bldg.

**11 a.m.-12:30 p.m. Master of Liberal Arts Program and University College Saturday Seminar.** "The Tick of Literature and the Tock of Philosophy," William Gass, WU David May Distinguished University Professor in the Humanities. Women's Bldg. Lounge. For more info., call 889-6802.

## PERFORMANCES

### Friday, Feb. 16

**8 p.m. Edison Theatre Presents The Washington University Dance Theatre.** a performance by faculty, students and alumni. (Also Sat., Feb. 17, same time, and Sun., Feb. 18, at 2 p.m.) Edison Theatre. Cost: \$7 for general public; \$5 for senior citizens and WU students, faculty and staff. For more info., call 889-6543.

### Friday, Feb. 23

**8 p.m. Performing Arts Dept. Presents "Burning Patience,"** a play by Antonio Skarmeta, Chilean playwright and visiting prof. of Romance languages and literatures. (Also

Sat., Feb. 24, and Sun., Feb. 25, same time, and March 2-4, same time.) Mallinckrodt Center Drama Studio, Room 208. Cost: \$7 for general public; \$5 for senior citizens and WU students, faculty and staff. For more info., call 889-6543.

**8 p.m. Edison Theatre Presents The American Indian Dance Theatre,** a world-renowned troupe specializing in American Indian dances. (Also Sat., Feb. 24, at 8 p.m. and a special children's performance at 2 p.m.) **All performances are sold out.** Edison Theatre. For more info., call 889-6543.

## MUSIC

### Sunday, Feb. 18

**2:30 p.m. Dept. of Music Presents the WU Symphony Orchestra,** Dan Presgrave, director. St. Louis Art Museum Theatre. For more info., call 889-5574.

**7:30 p.m. Dept. of Music Presents the University City Symphony Orchestra,** William Schatzkamer, conductor. Graham Chapel. For more info., call 889-5574.

### Saturday, Feb. 24

**8 p.m. Dept. of Music Presents "A Program of Love Songs of 17th-century England and Italy,"** Nigel Rogers, tenor, and Paul O'Dette, lute and theorbo. Co-sponsored by the Endangered Arts Foundation. Graham Chapel. Cost: \$10 in advance and \$12 at the door for general public; \$8 for senior citizens and WU students, faculty and staff. For ticket info., call 889-5574.

## EXHIBITIONS

**"Prints by Richard Bosman: 1978-1988."** Through March 11. Gallery of Art, lower gallery, Steinberg Hall. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

**"St. Louis and the West: Rare Books and Uncommon Historical Pieces From the Collections of WU Libraries,"** Olin Library Special Collections exhibit. Through March 2. Olin Library, level 5. 8:30 a.m.-5 p.m. weekdays. For more info., call 889-4670.

**"Stalking the Wild Grant? Start in Olin,"** Olin Library exhibit. Through March 15. Olin Library, Level 4. Open during regular library hours. For more info., call 889-4670.

**"Washington University Fine Arts Collection."** Collection includes European and American art from the post-World War II era, as well as ancient Greek vases. Through March 25. Gallery of Art, upper and lower galleries, Steinberg Hall. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

**"Classic Views of the Brain, 1550-1949,"** sponsored by the Library and Biomedical Communications Center at the School of Medicine. Through March 30. History of Medicine Gallery, School of Medicine Library. 8:30 a.m.-5 p.m. weekdays. For more info., call 362-4239.

## FILMS

### Thursday, Feb. 15

**7 p.m. Dept. of Romance Languages and Literatures French Film Series,** "Manon des Sources (Manon of the Spring)." Ridgley Hall, Language Lab, Room 210.

**7 and 9:30 p.m. Filmboard Series.** "An Autumn Afternoon." \$2. Brown Hall.

### Friday, Feb. 16

**6:30 and 9:30 p.m. Filmboard Series,** "Pelle the Conqueror." (Also Sat., Feb. 17, same times, and Sun., Feb. 18, at 7 p.m.) \$2. Brown Hall.

**Midnight. Filmboard Series,** "Victory." (Also Sat., Feb. 17, same time, and Sun., Feb. 18, at 10 p.m.) On Fri. and Sat., both the 9:30 p.m. and midnight films can be seen for a double feature price of \$3; both Sun. films can be seen for \$3. Brown Hall.

### Monday, Feb. 19

**7 and 9:30 p.m. Filmboard Series,** "The Fountainhead." (Also Tues., Feb. 20, same times.) \$2. Brown Hall.

### Wednesday, Feb. 21

**7 and 9 p.m. Filmboard Series,** "Ballad of a Soldier." (Also Thurs., Feb. 22, same times.) \$2. Brown Hall.

### Thursday, Feb. 22

**7 p.m. Dept. of Romance Languages and Literatures French Film Series,** "Entre nous." Ridgley Hall, Language Lab, Room 210.

### Friday, Feb. 23

**7 and 9:30 p.m. Filmboard Series,** "Dead Poets Society." (Also Sat., Feb. 24, same times, and Sun., Feb. 25, at 7 p.m.) \$2. Brown Hall.

**Midnight. Filmboard Series,** "Scarface." (Also Sat., Feb. 24, same time, and Sun., Feb. 25, at 9:30 p.m.) On Fri. and Sat., both the 9:30 p.m. and midnight films can be seen for a double feature price of \$3; both Sun. films can be seen for \$3. Brown Hall.

## SPORTS

### Thursday, Feb. 15

**11 a.m. Men's and Women's Swimming and Diving.** University Athletic Association Championships. Millstone Pool.

### Friday, Feb. 16

**11 a.m. Men's and Women's Swimming and Diving.** University Athletic Association Championships. Millstone Pool.

**5:30 p.m. Women's Basketball.** WU vs. New York U. Field House Gym.

**7:30 p.m. Men's Basketball.** WU vs. New York U. Field House Gym.

### Saturday, Feb. 17

**11 a.m. Men's and Women's Swimming and Diving.** University Athletic Association Championships. Millstone Pool.

**3 p.m. Men's Junior Varsity Basketball.** WU vs. Central Methodist College. Field House Gym.

**6 p.m. Women's Basketball. (Thurtene Hoop Night.)** WU vs. Emory U. Field House Gym.

**8 p.m. Men's Basketball. (Thurtene Hoop Night.)** WU vs. Emory U. Field House Gym.

### Monday, Feb. 19

**7:30 p.m. Women's Junior Varsity Basketball.** WU vs. Jefferson College. Field House Gym.

### Tuesday, Feb. 20

**5 p.m. Men's Junior Varsity Basketball.** WU vs. Flo Valley Community College. Field House Gym.

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

### Wednesday, Feb. 21

**7:30 p.m. Women's Junior Varsity Basketball.** WU vs. Flo Valley Community College. Field House Gym.

### Thursday, Feb. 22

**5:30 p.m. Men's Junior Varsity Basketball.** WU vs. Maryville College. Field House Gym.

**7:30 p.m. Men's Basketball.** WU vs. Maryville College. Field House Gym.

### Saturday, Feb. 24

**Noon. Men's and Women's Swimming and Diving.** WU-St. Louis Metro Invitational. Millstone Pool.

## MISCELLANY

### Saturday, Feb. 17

**7 p.m. Woman's Club of Washington University Dinner Dance.** Open to Woman's Club members and staff. Cost: \$33. The Sheldon, 3648 Washington Ave. For more info., call 567-1152 or 725-0372.

### Thursday, Feb. 22

**7:30 p.m. WU Aids Task Force Lecture/Performance.** "Hot, Sexy and Safer," Suzi Landolphi of the Fenway Community Health Center, Boston, Mass. Edison Theatre. For more info., call 889-5994.

### Friday, Feb. 23

**9 a.m.-4 p.m. Women's Program Council of the Higher Education Center Conference.** "Developing Strategies for the 90s: Programmatic, Personal, and Professional." Co-sponsored by the American Council on Education's National Identification Program for Women in Higher Education Administration. Busch Memorial Center, St. Louis U., Grand and Laclede. Cost: \$35. Registration deadline is Tues., Feb. 20. For more info., call 658-2212.

**3 p.m. Campus Bookstore Book Signing and Talk With John Allen Paulos,** author of *Innumeracy: Mathematical Illiteracy and Its Consequences* and prof. of mathematics and presidential scholar, Temple U. Campus Bookstore, Mallinckrodt Center.

## Calendar Deadline

The deadline to submit items for March 1-10 calendar of the Washington University Record is Feb. 16. 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's name and identification and the title of the event; also include your name and telephone number. Send items to Andrew Cox, calendar editor, Box 1070, or by electronic mail to p72245PP at WUVMC.