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Washington University Record, May 4, 1989. Bernard Becker Medical Library Archives.
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RECORD

Washington
WASHINGTON UNIVERSITY IN ST. LOUIS

Vol. 13 No. 30/May 4, 1989



Solo act: Guest artist Muriel Cohan is one of nine soloists featured in the St. Louis Dancers spring concert, "Personal Spaces," at 8 p.m. Friday and Saturday, May 5 and 6, and at 2 p.m. Sunday, May 7, in Edison Theatre. Tickets for the performance are \$15 for the general public; \$10 for University faculty and staff; and \$7 for students. There will be a \$2 discount for all tickets bought in advance. A benefit reception for the St. Louis Dancers will be held following the May 5 performance at the Alumni House, 6510 Wallace Circle. Admission to the reception is \$7. For more information, call 889-6543.

Corporate homicide Criminal prosecution of workplace accidents have risen dramatically

It used to be called bad business management or negligence. Now some are calling it murder. Across the country, cases that prosecutors were once inclined to view as workplace accidents are more and more being regarded as criminal acts.

Criminal prosecutions of corporations, including the recently defined charge of "corporate homicide," have risen dramatically in recent years. In 1970, such cases accounted for just eight percent of federal prosecutions; by 1984, that number had jumped to 25 percent. An Illinois appellate court decision in the ground-breaking Film Recovery Systems case — the first in which company officials were found guilty of murder for exposing a worker to dangerous working conditions — is expected early this summer.

According to Kathleen F. Brickey, J.D., Washington University professor of law, the troubles of white-collar offenders, from the Film Recovery executives to Ivan Boesky, are changing the business of law.

"Traditionally, the various legal specialties were considered separate islands unto themselves," says Brickey. "If you were a securities lawyer, that's all you were. But today, lawyers who advise business clients can neither afford to be unaware of how other areas of the law affect their areas of specialization, nor fail to alert their clients to the dangers in today's enforcement environment."

Brickey is the author of the three-volume treatise *Corporate Criminal Liability* (1984), which, according to Dan K. Webb, former U.S. Attorney for the Northern District of Illinois, "addresses any issue likely to be encountered by an attorney faced with

defending a corporation or a corporate officer ... being investigated or prosecuted for a crime." The 1989 supplement to the work will be issued in September.

Hazards in the workplace

One of the hottest areas of corporate criminal prosecution involves the issue of hazardous work sites. A recent ruling, Brickey says, ensures that such cases will continue to increase.

Last month, in a case that marks a watershed in criminal litigation, the Illinois Supreme Court cleared the way for criminal prosecution of five officials of the Chicago Magnet Wire Co., whose employees claim to have been injured by hazardous chemicals and other unsafe working conditions.

"This will send a signal to other prosecutors that they can go ahead. And it will send a message to other courts," says Brickey. "It may not be the last word, but it's an important word."

The explosion of corporate criminal prosecutions has a simple explanation, Brickey says: The law abhors a void. An emasculated Occupational Safety and Health Administration, kept on an even shorter leash in the name of deregulation, has provided little more than minimal protection for workers. Federal statistics show that the number of workplace injuries and fatalities, which had been declining for four years until 1983, have been climbing ever since.

"Prosecutors find that in the OSHA scheme of regulation, criminal enforcement is often quite lax," Brickey says. "The civil enforcement focuses on getting the company into compliance; in doing that, the penal-

Continued on p. 2

Henry Hampton to give Commencement address

Henry E. Hampton, executive producer of "Eyes on the Prize: America's Civil Rights Years (1954-1965)" and a Washington University alumnus, will deliver the University's 128th Commencement address on Friday, May 19. The ceremony will begin at 8:30 a.m. in Brookings Quadrangle. There are 2,300 degree candidates, and Hampton will receive an honorary doctor of humanities degree during Commencement.

"Eyes on the Prize," a six-part documentary series that aired nationally on PBS beginning in January 1987, was seen by an estimated 20 million viewers. The series used a mix of historical footage and recent interviews with participants to chronicle the major events that followed the 1954 Supreme Court ruling that outlawed segregation in public schools, concluding with the passage of the Voting Rights Act in 1965.

The program won 23 awards, including being named "Program of the Year" by the Television Critics Association, "Best Documentary" by TV Guide and "Best of Festival" by the American Film and Video Festival. The series, which aired again in 1988, also earned an Academy Award nomination for Best Documentary, and episodes five and six won Emmy awards from the National Academy of Television Arts and Sciences.

As public information director for the liberal Unitarian-Universalist Association in the mid-1960s, Hampton had witnessed and written about the civil rights movement. He also had learned how influential the media could be in effecting social change. So, in 1968, with a \$12,000 contract to produce four television shots and with a vision of producing films that would generate change in the hearts of viewers, Hampton founded Blackside Inc.

In his 20 years as president of Blackside, Hampton has produced or been responsible for more than 50 major films and media projects, including several multiple film series for J. Walter Thompson, the National Institute of Mental Health and the U.S. Department of Commerce. He served as executive producer of "Voices of a Divided City," which aired nationally on PBS in 1982, and was executive producer and writer for "Kinfolks," a documentary that examined the state of the black family. "Kinfolks" was selected for a CEBA Award in 1979 as the best long-form documentary on minority Americans.

Continued on p. 2



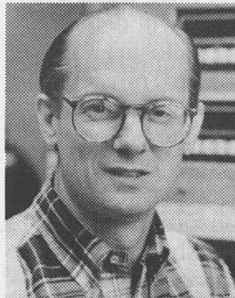
Henry E. Hampton

National Academy of Sciences elects neurobiologist Purves

Dale Purves, M.D., professor of neurobiology at the School of Medicine, has been elected to the National Academy of Sciences.

Purves is among 60 new members selected for distinguished and continuing achievements in original research. Election to the academy, which now has 1,601 members, is one of the scientific community's most prestigious honors. Chartered by an act of Congress signed by President Lincoln in 1863, the academy promotes research beneficial to human welfare and officially advises the federal government on science and technology.

Purves is being recognized for his studies of the autonomic nervous system, nerve cells



Dale Purves

completely outside the brain or spinal cord that control such vital functions as breathing, heart rate and intestinal contractions. His work focuses on the formation and maintenance of synapses, the connections between nerve cells that transmit signals from one nerve cell to another.

More recently, he and his colleagues have used digital-imaging techniques to map connections in mice, both in the autonomic nervous system and the brain, to study synaptic changes over time. The ultimate goal of this work is to learn more about memory — how the human nervous system stores information.

Their work may help answer one of the most important questions in modern neurobiology: how the formation and malleability of synapses is related to the nervous system's remarkable adaptive abilities. The work also could increase understanding of diseases in which synaptic connections fail to form properly or

degenerate prematurely.

Purves joined the Washington University faculty in 1973 as an assistant professor of physiology and biophysics. He was named a full professor in 1979. He is co-director of the School of Medicine's Sen. Jacob Javits Center of Excellence in Neuroscience, created in 1985 with a \$3.4 million award from the National Institutes of Neurological Diseases and Stroke.

Last year Purves published his second book, *Body and Brain: A Trophic Theory of Neural Connections*. The book, well received by the neuroscience community, explains interactions between the nervous system and the changing bodies of developing and evolving animals. Also, Purves is co-author of a textbook on neural development and has published numerous articles on his research.

Since 1977, he has served as an instructor and organizer of several Cold Spring Harbor summer courses on developmental neurobiology and on structure and function of the synapse. He is a member of numerous professional organizations, including the American Association for the Advancement of Science, Society for Neuroscience and Society for General Physiologists, and is co-editor of several scientific journals. He is presently editor-in-chief of the *Journal of Neuroscience*.

Purves has received other honors for his work, including the Camillo Golgi Award of the Fidia Research Foundation, the Grass Foundation's Alexander Forbes Lectureship and the Mathilde Soloway Award in Neuroscience. He has twice been named Teacher of the Year by Washington University medical students. He received a bachelor of arts degree Summa cum Laude from Yale University in 1960, and a doctor of medicine degree from Harvard Medical School in 1964.



Bikes and blooms: Two students, one bike, and a warm spring day add up to an enjoyable ride for Arianne Sutner, a senior majoring in art history (front), and Katrina James, a senior Spanish major, as they pedal alongside Olin Library.

Nation's top accounting professors to meet at business school conference

More than 60 of the nation's top accounting professors will meet at the John M. Olin School of Business on May 5-6 to discuss the impact of accounting information on stock market prices.

The conference, which is underwritten by a grant from the Price Waterhouse Foundation, is considered the nation's premier conference in the field of academic accounting research.

Participants will share views on two decades of empirical research into accounting information, while focusing on this year's topic: "Current Studies on the Information Content of Accounting Earnings."

The 1989 conference marks the 20th anniversary of the publication of the "Ball, Brown and Beaver Papers" — research that laid the groundwork for the formal study of relationships between accounting information and stock market prices.

The conference will recognize the

work of the authors: Ray Ball of the University of Rochester, William Beaver of Stanford University, and Philip Brown of the University of Western Australia.

Olin faculty Grace Pownall, Ph.D., assistant professor of accounting, and Gregory B. Waymire, Ph.D., associate professor of accounting, will deliver a paper on "Voluntary Disclosure Choice and Earnings Information Transfer."

The conference, which traditionally is held at the Graduate School of Business of the University of Chicago, is being held at the Olin school for the first time. It is co-sponsored by the business schools of Washington University and the University of Chicago.

"We are deeply honored to be associated with this particular conference and are pleased to cooperate with the University of Chicago in hosting this year's meeting," said Dean Robert L. Virgil, D.B.A.

Henry Hampton — continued from p. 1

Hampton currently is finishing work on a second "Eyes on the Prize" program. The eight-part series, which covers the civil rights movement from 1965 to 1980, will air on PBS in January 1990.

Hampton, who earned a bachelor's degree in premed and English literature from Washington University in 1961, was the 1987 recipient of the Roger Baldwin Award of the Massa-

chusetts Civil Liberties Union and the Holmes Weatherly Award from the Unitarian Universalist Association. He is the board chairman of the Museum of Afro American History, founding trustee and director of the Boston Center for the Arts, board member of several community organizations and has been actively involved in athletic programs for the disabled.

West German author to talk here

Günter Grass, one of West Germany's leading contemporary authors, will read from and discuss his book *Zunge zeigen* at 11 a.m. Wednesday, May 10, in Graham Chapel. *Zunge zeigen*, published in 1988, is based on Grass' trip to India from October 1986 through January 1987. The book recounts his observations of Indian society.

Part of the Assembly Series, the event is free and open to the public.

Grass is author of the novel *The Tin Drum*, the fictional biography of Oskar Matzerath set in the Nazi and post-war periods of Germany. Grass collaborated on the script for the 1979 film "The Tin Drum," which won the Cannes Film Festival Golden Palm

award and the 1980 Academy Award for best foreign film.

Grass' more recent works include the historical novel *The Flounder*; *Headbirths: Or the Germans Are Dying Out*, a novel about Grass, Volker Schlöndorff and their wives on a lecture tour of China; and *The Rat*, a meditation on nuclear apocalypse.

Trained as a stone mason and sculptor, Grass has exhibited his drawings and lithographs in the United States, and he often illustrates his own texts.

The reading is co-sponsored by the Assembly Series, Department of Germanic Languages and Literatures, and Western European Studies Program. For information, call 889-5285.

Corporate homicide — continued from p. 1

ties are often compromised down to nothing. Prosecutors become frustrated, and they decide that if something is going to be done, it will have to be at the local level."

Corporate homicide

The particularly egregious Film Recovery Systems case in Chicago brought into focus why prosecutors have felt obliged to step into the breach, Brickey says.

"In that case, for the first time," says Brickey, "executives were held liable for murder for the mismanagement of the workplace. I think we're seeing a new attitude. And I'm not at all confident that this would have developed, had OSHA done its job."

In 1985 three executives of Film Recovery were convicted in Cook County in the murder of Stefan Golab, a Polish immigrant who spoke no English. Golab worked for Film Recovery cleaning barrels of cyanide into which exposed X-rays were dunked. In 1983, Golab collapsed at work. The cause of death was attributed to cyanide fumes.

Investigations by prosecutors found that managers had not warned workers about the dangers of cyanide and provided only cotton gloves for working with the chemical. Uncovered tanks released fumes into the factory. Complaints of illness were ignored. The company did not even have a cyanide antidote kit.

Another landmark case

While the Film Recovery ruling sent shockwaves through the business world, a more recent decision is attracting almost as much attention. In February, the Illinois Supreme Court ruled that the federal Occupational Safety and Health Act, which governs safety in the workplace, did not bar criminal prosecution for dangerous working conditions at the Chicago Magnet Wire Co. It is the first Supreme Court ruling in any state to decide whether the OSHA charter precludes state regulation of work site safety. Brickey and others expect this ruling to affect the Film Recovery appeal.

The Magnet Wire case began in 1984 when an indictment was returned charging five officials of the suburban Chicago company with aggravated battery, reckless conduct and conspiracy. But a circuit judge dismissed the indictment a year later, ruling that the prosecution was pre-empted by the OSHA statute.

The indictment charges that 42 employees suffered nerve and lung disorders, scars from metals and other problems caused by the conditions at the factory, where wire was coated with polyvinyl chloride and other chemicals. Prosecutors say that the factory lacked safety equipment, as well as proper cooling and ventilation. A doctor who examined the workers

described the workplace environment as a "toxic cocktail" of chemicals.

Standards needed

"A number of states have dealt with the pre-emption issue," says Brickey, but not all have reached the same conclusion. "Certainly it would help to either have an amendment to OSHA that says that the statute doesn't pre-empt state prosecutors from proceeding — although I think that the present language is clear — or a U.S. Supreme Court decision saying so.

"These cases are complex, time-consuming and expensive," she adds. "They put a strain on local prosecutors by adding yet another category of crime to their caseloads. Lack of resources could be a real obstacle to pursuing a case, although once public awareness has been heightened, prosecutors may be able to plead successfully for more resources.

"I think an overarching federal scheme makes sense. Someone has to set standards," Brickey says. That, ostensibly, is OSHA's mission. But whether it comes closer to protecting worker safety, or whether local prosecutors wind up shouldering even more of the burden, rests in large part, she says, with the Bush administration.

Law schools reflect trend

In the meantime, court dockets — and law schools — will continue to reflect the ballooning interest in corporate crime.

"There is a growing realization that these are not really victimless crimes," says Brickey, who has served as a consultant to the U.S. Sentencing Commission, charged by Congress with writing binding federal sentencing guidelines for corporate offenders. "We are becoming acutely aware that these are indeed crimes, that they have real and significant costs both for society and for individuals."

Brickey says that as white-collar prosecutions have increased, so too have enrollments in her Washington University course on corporate and white-collar crime — one of only a handful of law schools offering classes on the subject.

"There are going to be more lawyers specializing in this area, and many others who, even if they don't practice criminal law, are going to have to know about it in order to advise business clients on the potential criminal dimensions of the business processes they guide," Brickey says.

Brickey currently is working to fill a gap she discovered in teaching her course: No casebook on corporate criminal law exists. She is now writing one.

And, judging from the explosion in corporate criminal prosecutions, it looks as though she'll continue to have plenty of material from which to draw.

Cathy Vesperany

NOTABLES

Jack Hartstein, M.D., associate professor (clinical) of ophthalmology, was an invited guest speaker at the 10th International Contact Lens Congress, held April 14-16 in Atlantic City, N.J. He spoke on "Advanced Contact Lenses of the Present and Near Future, the Disposable Lenses."

Jay P. Heiken, M.D., associate professor of radiology, presented "MRI of the Liver and Upper Abdomen," "MRI of the Retroperitoneum" and "MRI of the Pelvis" at Seminars in MRI, sponsored by the Medical College of Wisconsin and held Feb. 25-March 4 in Snowbird, Utah. Heiken lectured and presented workshops at the International London Course in Whole Body Computed Tomography, held March 19-23 in Auchterarder Perthshire, Scotland. He also presented lectures in a course sponsored by the University of British Columbia, Vancouver. As visiting professor, Heiken presented two lectures at the University of Munster School of Medicine March 16-18 in Munster, West Germany.

Udo Kultermann, Ph.D., Ruth and Norman Moore Professor of Architecture, was invited to attend the opening of an exhibition of the sculptor Arturo Martini in Matera, Italy, as a member of a scientific committee. The other four members of the committee are Italian scholars Giuliano Briganti and Gianni Vianello; Dutch scholar A. M. Hamacher and German scholar Erich Steingraeber, all international authorities on 20th-century sculpture. The opening will be held June 10.

Bruce L. McClennan, M.D., professor of radiology, has been appointed to the Committee on Drugs and Contrast Media and reappointed to the Committee on Magnetic Resonance Education and Training and the Committee on Marketing of the American College of Radiology. He also was appointed vice-chairman of the Faculty, Genitourinary Radiology and the Intersociety Commission of the American College of Radiology.

Brian McLaren, visiting assistant professor in the School of Architecture, presented two papers at the annual meeting of the Association of Collegiate Schools of Architecture, held March 4-7 in Chicago. One of the papers, titled "Other Place(s)," is to be published in *Reflections 7*, a journal of the School of Architecture at the University of Illinois at Urbana-Champaign in the winter 1989-90

RECORD

Editor: Susan Killenberg, 889-5254, Campus Box 1070; P72245SS at WUVMC
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Photographers: Joe Angeles, Tom Heine, David Kilper and Herb Weitman
Record (USPS 600-430; ISSN 1043-0520), Volume 13, Number 30/May 4, 1989. Published weekly during the school year, except school holidays, monthly during June, July and August, by News and Information, Washington University, Box 1070, One Brookings Drive, St. Louis Mo. 63130. Second-class postage paid at St. Louis, Mo.
Address changes and corrections:
Postmaster and non-employees: Send address changes to: Record, Washington University, Box 1070, One Brookings Drive, St. Louis, Mo. 63130.
Hilltop Campus employees: Send to: Personnel Office, Washington University, Box 1184, One Brookings Drive, St. Louis, Mo. 63130.
Medical Campus employees: Send to: Payroll Office, Washington University, Box 8017, 660 S. Euclid, St. Louis, Mo. 63110.

issue. The other paper was titled "The Crisis of the Object (Architecture)."

Powell Niland, D.C.S., professor of management, has had his case study, "U.S.-Japanese Joint Venture: New United Motor Manufacturing, Inc. (NUMMI)," published by Planning Review, a publication of The Planning Forum, The International Society for Planning and Strategic Management.

William D. Phillips, Ph.D., professor of chemistry and science adviser to the governor of Missouri, received the Technology Award from the Science and Engineering Committee of the St. Louis Regional Commerce and Growth Association. The award is presented annually to honor St. Louisans for accomplishments in technology.

Michel Rybalka, Ph.D., professor of French, presided over a session on the New Novel at the Colloquium on Twentieth-Century French Studies, held April 1 in New York. He recently was the outside examiner for two doctoral theses. One thesis, titled "Sartre au Quebec," was defended at the Universite du Quebec, Trois Rivières; the other thesis, on Boris Vian, was defended at the University of Toronto. Rybalka plans to lecture on Sartrean scholarship at the C.N.R.S., a French national research organization, in Paris in May, and on contemporary French theater at the University of Eichstatt in Germany in June. He will talk on "L'effet d'originaire dans La Nausee: une lecture deleuzienne" for the Groupe d'Etudes Sartiennes in Paris, also in June, and on "Engagement et modernite" in a session organized by Andre Colombat, a former student, at the American Association of Teachers of French in July in Paris.

Murray L. Wax, Ph.D., professor of sociology, will be a faculty member at the NIH/FDA Regional Conference on "Current Ethical Issues in the Protection of Human Subjects in Clinical, Behavioral and Sociological Research." At the conference, he will deliver a paper, titled "Ethical Issues in Research With American Indian Communities," which is based on a survey conducted under his guidance by the National Indian Health Board. The conference, sponsored by the Medical Center of the University of Nebraska, Omaha, will be held May 4-5. Wax and **Joan Cassell**, research associate in anthropology and sociology, attended the annual meetings of the Society for Applied Anthropology, which were held April 5-9 in Santa Fe, N.M. Wax presented a paper titled "Oedipus, Freud, and Malinowski in the Trobriands." Cassell chaired a session in which she presented a paper on "The Fellowship of Surgeons, the Morality Play, and Social Control."

John Wai-Chiu Wong, Ph.D., assistant professor of radiation physics in radiology, has been elected a representative of a six-member task group of the American Association of Physicists in Medicine to evaluate and recommend "Tissue Inhomogeneity Corrections for Photon Beams."

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.

Women's and men's tennis teams post best-ever finish at UAA championships

Both the women's and men's tennis teams concluded the regular season in exciting fashion, posting respective second- and third-place finishes at this year's University Athletic Association Championships, held April 22-23 at Emory University in Atlanta.

Leading the Bears' quest at the UAA Championships were the freshmen duo of Debbie Michelson and Alison Brownstein. Michelson and Brownstein combined to win the number-one doubles competition, keeping their career doubles mark intact at 19-0. The freshmen pair are being considered as at-large entries in the NCAA Division III Tennis Championships, which will be held May 8-13 at Claremont-Mudd-Scripps Colleges in Claremont, Calif.

Michelson also captured the UAA number-three singles championship. With the three victories, Michelson ran her singles record at Washington to a perfect 22-0. Michelson's singles title, along with her and Brownstein's doubles title, were the Bears' first UAA individual titles in women's tennis.

Emory, ranked nationally in the top 10, easily won the women's title with 50 points. The Bears edged Brandeis 31 to 27 for second place.

Washington women's coach Lynn Imergoot, named co-coach of the year in the UAA, expressed her satisfaction with the team's play.

"We improved significantly upon last year's fourth-place finish, which was gratifying to me," said Imergoot. "The players were competitive in each of the matches they played and some of them played the best tennis of their careers."

In men's play, the UAA team champion was determined by the outcome of the final match in the tournament. Although the Bears' number-two doubles team of Keith Cheses and Dan Freedman lost in the finals of the number-two doubles flight, both captured UAA titles in the singles' competition. Cheses won the number-three singles flight, while Freedman captured the fifth flight. Mike Moshan won the number-six singles round, giving the men's team three UAA singles champions.

If the Bears' number-two duo could have won, Washington would have tied Emory for this year's men's title with 34 points, and Brandeis would have finished next with 33. Instead, Brandeis captured first with 35 points, followed by Emory with 34 and the Bears with 32.

Washington's number-one player

Jason Mudd faced some stiff competition in the UAA's top flight. After easing past an opponent from Case Reserve in the first round, Mudd defeated Rochester's Scott Milener, the defending NCAA Division III national runner-up, 6-2, 7-6. In the championship match, the opponent didn't get any easier as Mudd faced Brandeis' Noel Occomy, the defending national singles champion. Mudd fell 6-2, 7-6 in a hard-fought match, but could meet up with Occomy again at the NCAA championships, which will be held May 14-21 at Kalamazoo College in Kalamazoo, Mich.

"I'm really proud of our play at the UAA Championship," said Bears' coach Rick Flach. "It was a fun tournament that featured high-caliber competition. Every team member really came through for us."

Track & field title

The men's track and field team blazed to their second consecutive University Athletic Association outdoor track and field title, while the women's team placed a solid second behind defending champion University of Rochester during the UAA championship meet held April 22-23 in Cleveland.

The men's team monopolized the field events, amassing 111 of a possible 248 points. Sophomore Allen Glenn was named the meet's most valuable performer after totalling 24 points with first-place finishes in the shot put and the hammer throw, and a fourth-place showing in the discus. Fellow sophomore hurler Tim Walker was scant inches behind Glenn, earning 22 points for second-place finishes in the shot and hammer, and taking third in the discus.

The women earned the bulk of their points in the distance events and the throws. Senior Angela Panetta was the Bears' sole individual champion with a victory in the shot put.

Junior Steve Wereley was the only Bear to establish a UAA record at the meet. Wereley's long jump of 23'1 1/2" broke the old mark by over 11 inches.

For the fourth time in two years, head coach Ted Gibbons and his staff will have to clear wall space for certificates reading "UAA Men's Coaching Staff of the Year." The Bear mentors have earned the honor for each of the two indoor and outdoor championships. This season, Gibbons is being assisted by Kevin Hamilton and Bob Gregory.

NEWSMAKERS

Washington University faculty and staff make news around the globe. Following is a digest of media coverage they have received during recent weeks for their scholarly activities, research and general expertise.

The dramatic decrease in the songbird population over the last 40 years has scientists worried, says an article in the Feb. 27 *Houston Chronicle*. The loss of tropical forests in Central and South America is said to have contributed to the declining numbers of songbirds. Richard W. Coles, Ph.D., director of Tyson Research Center and adjunct professor of biology, says that in addition to deforestation, the decline can be attributed to American agriculture, which has reduced the size of the nation's woodlands and prairies. Suburban sprawl, roads and railways also have interfered with the birds'

habitat, says Coles in the article. "Certainly it would be a tragedy to lose the birds," he says. "These birds are efficient insect eaters. They are a part of the natural checks and balances."

"Much of the decline of bodily function is due to disuse — a lack of exercise," says John O. Holloszy, M.D., professor of medicine, in an article about remaining fit during the aging process that appeared in the April-May issue of *Beauty Digest*. "Our bodies are not adapted genetically to a sedentary lifestyle," he says, adding that the biggest aging concern for women is maintaining bone mass and preventing osteoporosis. To combat osteoporosis, he recommends a regular schedule of weight-bearing exercise like jogging, brisk walking or cycling. He recommends resistance-type exercises such as weight-lifting or aquatic aerobics to help maintain lean body mass.

CALENDAR

May 4-13

LECTURES

Thursday, May 4

4:10 p.m. Dept. of Philosophy Colloquium. "Interpretation of Texts, People and Other Artifacts," Daniel C. Dennett, Distinguished Arts and Sciences Professor and dir., Center for Cognitive Studies, Tufts U. Women's Bldg. Lounge.

Friday, May 5

10 a.m. Oral Examination for the Doctorate Degree for Mohammad Reza Marzabadi, Dept. of Chemistry. Dissertation title: "C102 Oxidative x-Cyanations of Amines: Biomimetic Syntheses of Elaeocarpus Alkaloids." 311 McMillen.

Noon. Dept. of Cell Biology and Physiology Friday Seminar. "Muscle Formation in *Caenorhabditis elegans*," Robert H. Waterston, WU prof. of genetics. 4914 S. Bldg.

2 p.m. Oral Examination for the Doctorate Degree for Abderrahim El ghanmi, Dept. of Mathematics. Dissertation title: "Spacelike Surfaces in Lorentzian Manifold." 199 Cupples I.

6 and 8:30 p.m. WU Association Travel Lecture Series. "Antique Trains of Europe," Ken Lawrence, radio and television announcer. Graham Chapel. For ticket info., call 889-5122.

Monday, May 8

4 p.m. Dept. of Biology Seminar. "Gene Regulation in *E. Coli*," Martin Rosenberg, Dept. of Molecular Genetics, Smith Kline Beckman. 322 Rehstock.

Tuesday, May 9

4 p.m. Programs in Cell and Molecular Biology Colloquia. "Cell Surface Molecules That Promote Synapse Formation at the Neuromuscular Junction," Joshua Sanes, assoc. prof., WU Dept. of Neurobiology. Erlanger Aud., McDonnell Medical Sciences Bldg.

4:10 p.m. Dept. of Philosophy Colloquium. "The Evidential Value of Near-death Experiences as a Genre of Religious Experience," Jesse Hobbs, graduate student, WU Dept. of Philosophy. Hurst Lounge, Duncker Hall.

Wednesday, May 10

11 a.m. Assembly Series Presents Gunter Grass. West German novelist, essayist, poet and artist, reading from and discussing *Zunge zeigen*, his 1988 account of a recent visit to India. Also sponsored by Dept. of Germanic Languages and Literatures and Dept. of Western European Studies. Graham Chapel. For more info., call 889-5285.

1 p.m. Oral Examination for the Doctorate Degree for Bradley Joseph Quade, Div. of Biology and Biomedical Sciences. Dissertation title: "The Antigenic MHC-peptide Complex Recognized by a Human, Influenza Hemagglutinin-specific T Cell: Characterization and Intracellular Generation." 7738 Clinical Sciences Research Bldg.

7:30 p.m. George Warren Brown School of Social Work Spring Lecture Series. "Issues in Treatment of Single Parent Families," Stephen Jones, dir., Marital Family Training Program, Menninger Foundation at Topeka. Brown Hall Lounge. For more info., call 889-6606.

Thursday, May 11

Noon. 36th Annual Alpha Omega Alpha Lecture. "The Mapping and Sequencing of the Human Genome," Maynard Olson, prof., WU Dept. of Genetics. Clopton Amphitheatre, 4950 Audubon.

Friday, May 12

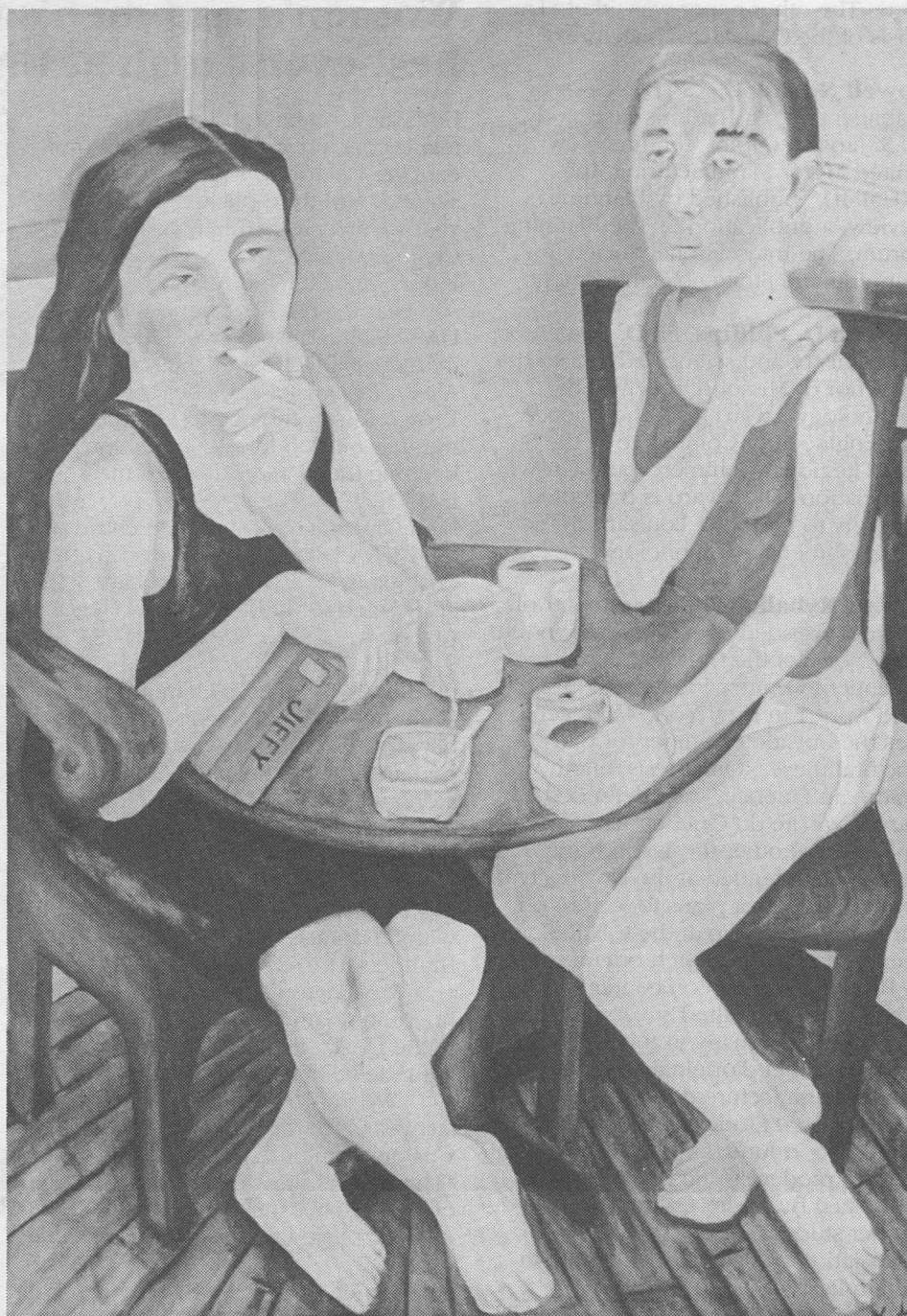
Noon. Dept. of Cell Biology and Physiology Friday Seminar. "Calcium Oscillations, Ion Channels and Activation of Human T Lymphocytes," Richard S. Lewis, Dept. of Physiology and Biophysics, U. of California, Irvine. 4914 S. Bldg.

4 p.m. Dept. of Neurology and Neurological Surgery 34th George H. Bishop Lecture in Experimental Neurology. "Neural Mechanisms in Vision," Torsten Wiesel, head, Laboratory of Neurobiology, Rockefeller U., N.Y. Moore Aud., N. Bldg., 4580 Scott Ave.

PERFORMANCES

Friday, May 5

8 p.m. Edison Theatre Presents the St. Louis Dancers. "Personal Spaces," directed by Annelise Mertz, choreographer and WU prof. emerita of dance. (Also Sat., May 6, same time, and Sun., May 7, at 2 p.m.) Edison Theatre. Tickets: general public \$15; \$10 for senior citizens, WU faculty and staff; \$7 for students. \$2 discount for all tickets bought in advance. A benefit reception will be held following the May 5 performance at the Alumni House, 6510 Wallace Circle. Admission to the reception is \$7. For more info., call 889-6543.



Student art: "Chicago Morning," an oil on canvas by Leda D. Zych, a senior from Webster Groves, is included in the annual art exhibit of works by Washington University students in the School of Fine Arts, to be held May 7-21. The BFA exhibit, featuring works by juniors and seniors, will be shown in the Gallery of Art, Steinberg Hall. The Core exhibit, featuring works by freshmen and sophomores, will be displayed in Bixby Hall Gallery. An opening reception for the exhibits will be held from 2 to 5 p.m. Sunday, May 7, in the respective galleries. For more information, call 889-4523 or 889-4643.

MUSIC

Thursday, May 4

8 p.m. Dept. of Music Presents a Renaissance Flute and Harpsichord Recital featuring Nancy Hadden, Renaissance flute, and Charles Metz, harpsichord. Steinberg Hall Aud. For more info., call 889-5581.

Sunday, May 7

7:30 p.m. Dept. of Music Presents University City Symphony Orchestra Concert, featuring Young Artists Award winners. Conducted by William Schatzkamer, WU prof. emeritus of music. Graham Chapel. For more info., call 889-5581.

Saturday, May 13

7 p.m. Dept. of Music Presents an Indian Vocal Concert, featuring the Bombay Sisters, vocalists. Co-sponsored by Sangeetha. Simon Hall Aud. Tickets: general admission \$12; other than WU students \$6; free for WU faculty, staff and students and Sangeetha members. For more info., call 889-5581.

EXHIBITIONS

"Washington University Permanent Collection." Through June 30. Gallery of Art, Steinberg Hall, lower gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Winning Entries of the Carl Neureuther Student Book Collection Competition." Through May 4. Olin Library, Special Collections (fifth floor). 8:30 a.m.-5 p.m. weekdays. For more info., call 889-5495.

"Remembrance Now: Ford Madox Ford (1873-1939)." May 5-Aug. 11. Olin Library, Special Collections (fifth floor). 8:30 a.m.-5 p.m. weekdays. For more info., call 889-5495.

"B.F.A. Exhibition," featuring works by junior and senior students in the School of Fine Arts.

May 7-21. Gallery of Art, Steinberg Hall, upper gallery. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Core Exhibition," featuring works by freshmen and sophomore students in the School of Fine Arts. May 7-21. Bixby Hall Gallery. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4643.

FILMS

Thursday, May 4

7 and 9 p.m. Filmboard Series, "The Seventh Seal." \$2. Brown Hall.

MISCELLANY

Friday, May 5

11 a.m. Woman's Club Spring Luncheon. Program: tour of historic Oakland House, 7801 Genesta, Affton, followed by luncheon. Cost: \$9 for members. For more info., call Jan Welty at 721-1025 or Betty Ryckman at 966-5974.

Tuesday, May 9

12:30 p.m. Luncheon Meeting of the Society of Professors Emeriti. Speaker: Peter H. Raven, Engelmann Professor of Botany and dir., Missouri Botanical Garden, "Deforestation and Changes in the Global Environment." Beaumont Room, Missouri Botanical Garden, 4344 Shaw. For more info., call Robert E. Shank at 821-5054.

Friday, May 12

9 p.m. Commencement Week. Punt the Books Party, senior toast. Bowles Plaza.

Saturday, May 13

7:30 p.m. Commencement Week. Movie Night at the Rat. Umrathskeller, Umrath Hall.

11:30 p.m. Commencement Week. Last Run to Ted Drewes. Depart Umrathskeller, Umrath Hall.

Renaissance flute, harpsichord recital will be in Steinberg

The Department of Music will sponsor a Renaissance flute and harpsichord recital featuring Nancy Hadden and Charles Metz at 8 p.m. Thursday, May 4, in Steinberg Hall auditorium.

Hadden received her bachelor's degree in flute and voice from Ohio Wesleyan University and her master's degree in music history from Pennsylvania State, where she first met fellow student Metz in 1973. After doctoral studies in historical performance practices at Washington University, she moved to London in 1978, where she began a career as a Renaissance flutist.

She now plays early flutes and sings with many of London's leading ensembles and orchestras. She also directs the Renaissance ensemble Circa 1500 and has been a member of the Julian Bream Consort since 1983.

Metz received his bachelor's degree in music from Pennsylvania State in 1974, and his doctorate in historical performance practices from Washington University in 1981. He has studied with renowned harpsichordists Igor Kipnis and Trevor Pinnock. Metz, who has built seven harpsichords, performs frequently as an accompanist and solo artist in the St. Louis area. He currently teaches harpsichord at the University.

The recital is free and open to the public. For information, call 889-5581.

Smoking clinic offers program to kick the habit

The Washington University Smoking Clinic will offer a summer program to help smokers kick the habit. Orientation for the eight-week session begins at 5:30 p.m. Monday, May 15, in Room 115, Eads Hall. Except for the orientation session, the meetings will be held on Wednesdays at 5:30 p.m.

The course costs \$50; all but \$10 of the fee is refundable at the end of the program.

The smoking cessation program at Washington University is sponsored by the American Lung Association and the Missouri Department of Health, and is supported by a grant from the National Cancer Institute.

For information, call 889-6527.

Indian vocal group will perform

The Bombay Sisters, an Indian vocal group, will perform at 7 p.m. Saturday, May 13, in Simon Hall auditorium.

The concert is co-sponsored by the Department of Music and Sangeetha, a St. Louis-based Indian music society. The ensemble performs "Carnatic" style music, which is native to southern India.

Tickets for the concert are \$12 for general admission; \$6 for all non-Washington students; and free for all Washington faculty, staff and students and Sangeetha members.

For more information or tickets, call 532-1067 or 991-3860.

Calendar Deadline

The deadline to submit items for May 18-June 1 calendar of the Washington University Record is May 5. 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 Jill Weber, calendar editor, Box 1070, or by electronic mail to p72245JW at WUVMC.