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# RECORD

Washington  
WASHINGTON • UNIVERSITY • IN • ST • LOUIS

Vol. 16 No. 15/Dec. 12, 1991

## Architecture project put to the test

When sophomores in the School of Architecture's studio program recently built a class project, they had some tough customers — 115 children at the South Side Day Nursery who were ready to play. Their job was to build two play structures tough enough to withstand the heavy use of rambunctious children.

The purpose of the project was to give the 11 fledgling architects experience working for a client and designing and building useful objects. They interviewed the nursery school teachers about their needs, visited South Side to see the space, researched what the children like to play on and how tall they are and tried to estimate costs and stay within a budget.

The project, which took just two-and-a-half weeks from initial interview to finished product, was assigned by Gay Lorberbaum, affiliate associate architecture professor.

Each year Lorberbaum searches for a community group needing a structure that architecture students could build. One year, for example, a group of Lorberbaum's students built a sensory playhouse and a ball pit for the Delta Gamma Foundation for Visually Impaired Children.

This year, the students worked with South Side, located at 2930 Iowa, just west of the Anheuser-Busch brewery. The nursery was founded 105 years ago to provide quality day care to those who could not afford it. The purpose still holds true today. A sliding fee scale helps accommodate member families, whose annual salaries average \$12,500.

This was the first time many of the students had put hammer to nail. Many of the other courses in sophomore studio (students rotate through several mini-courses, such as 2-D drawing and lighting) are more theoretical.

The South Side project also required students to collaborate.

First, each student constructed a scale model. The South Side teachers wanted a sturdy structure that could be used both as a single unit in the building's central courtyard and as two smaller units that could be separated and placed in different rooms.

Then they met to develop a single plan. The students discovered that the most difficult part of the project was finding a consensus.

"It was especially hard because we tried to incorporate something from everyone's original idea," says Sarah Johnson, one of the students in the class.

Once the design was agreed upon, the students had only 10 days to build it. Each student devoted more than 40 hours to the project, in addition to regular classes. Many were hammering and sawing in Givens Hall until 1 or 2 a.m. some days.

"It'll take me the rest of the semester to catch up with my classes," sighed Carl Sledgister. "But seeing the kids playing on our playhouses makes it all worthwhile."

Lorberbaum was full of praise for her class.

"I've been here 15 years and this



Children at the South Side Day Nursery explore their new play structure, which was designed and built by architecture students at the University.

is a very exceptional group of students," says Lorberbaum. "They worked way beyond the standard requirements of this studio. And they came in six dollars under budget," she added, beaming.

Judging by the squeals and smiles of the four schoolchildren brought to "test" the final product, their new toy was a hit. Complete with a bright green ladder and a blue slide, the jungle gym section was designed for the older children, while the ball pit, with mirrors, carpets and hiding spaces, was designed with toddlers in mind.

The University students, dressed in baseball caps, cutoffs and overalls, stood near by as the children from South Side scrambled on their masterpiece. No one seemed ready to leave or to tackle their neglected classes. Aside from enjoying the children enjoy the playhouse, there was a second motive that made the students linger.

Said Camilio Cerro, a sophomore from Argentina, "We are just waiting for them to leave so we can play on it."

— Debby Aronson

## Visitor, short-term parking meters installed

In an effort to enhance visitor and short-term parking options, approximately 60 new parking meters will be installed on the Washington University Hilltop Campus. The plan to install the meters was reviewed this fall by the University's Transportation Advisory Committee.

About a fourth of the 60 meters are 30-minute meters and will replace the 30-minute parking zones on campus. The remaining meters are for two-hour time periods. The meters will be placed in the following parking areas: north and south sides of Brookings Hall; southwest corner of the lot near the Plant Growth Facility and Rebstock Hall; South-40; southeast section of the Athletic Complex lot, near John E. Simon Hall and the Mudd Law Building; immediately behind the Women's Building; Millbrook Apartments; and a small area near the Post Office, which is located behind Louderman Hall.

The additional meters are

scheduled to be installed during the Christmas holiday break. Once they are in place, approximately 150 meters will be available on campus. The existing meters are located on the two large lots below Brookings Hall, in front of Mallinckrodt Center and at the Athletic Complex.

Gary Sparks, director of the Transportation Department, said that the new meter locations were selected to provide a balance between the need for additional short-term parking and the desire to maintain adequate spaces for individuals with parking permits.

"The placement of parking meters throughout the campus has proven to be an extremely effective way of providing short-term and visitor parking. The combination of additional meters and the availability of daily and weekly parking permits will make parking more accessible to everyone," Sparks said.

Many departments routinely

Continued on p. 4

## Algae discovery helps uncover prairie mysteries

Scientists are exploring the secrets of what may be our last ecological frontier — the Midwestern prairie.

Once so predominant that early settlers on horseback got lost in the 10-foot tall grasses, native prairie today amounts to just 1 percent of what it was before 1848. In that year, John Deere invented the steel plow, inaugurating the great rush to domesticate the land. Most of the remnant prairie now grows around railroad tracks and "pioneer" cemeteries — the rare areas spared the plows and axes of development in the 19th and 20th centuries.

But ecologists over the past 20 years, realizing a valuable natural resource was anonymously slipping away, began refurbishing parks and research areas throughout the Corn Belt with varieties of some 300 plant species that once carpeted the area. Also, they have begun to take a closer look at the entire ecosystem — the plants, animals, insects and microbes — the prairie fosters.

***'This could be a front-line defense to detect even the subtlest of environmental changes, especially regarding pollutants and toxic wastes.'***

— Wayne Nichols

Now, Wayne Nichols, Ph.D., professor of biology at Washington University, has discovered a species of algae, *Sphaerelloccystis aplanosporum*, in a southwestern Missouri restored prairie that does something no other known organism does: it removes iron from the soil. The scientist, exploring the soils of LaPetite Gemme Prairie near Springfield, has isolated more than 500 different species of algae, including many species found only in Missouri. Nearly all of these species are new to science. Using the latest techniques in biochemistry and a computer program to set up data bases for quick classification of the algae species he has discovered, Nichols has begun an ambitious project. He is developing the most complete catalog ever assembled on the prairie's most basic life form.

"Algae and their role in the soil profile are far more complex than anyone has ever thought," says Nichols. "We've discovered they can actually remove elements from the soil and can select from groups of elements. This species we have found can remove iron from the soil, can even remove iron in laboratory cultures. We presume it does this as a survival mechanism in the prairie soil. We think there may be unique combinations of algae in undisturbed prairie soil."

"Our hope is to develop a biological profile of prairie algae that may serve as a barometer of change in the prairie environment itself and the landscape in general. This could be a front-line defense to detect even the subtlest of environmental changes, especially regarding pollutants and toxic wastes. There is no telling what else may be found in these rich environments, nor what potential applications await their uses."

Iron is an essential nutrient for

Continued on p. 2

## Happy holidays!

This is the last Record issue of 1991. The Record will resume weekly publication with the issue, dated Jan. 16, 1992. The Record staff wishes everyone a joyful holiday season and prosperous New Year!





Theatreworks/USA presents "Columbus!," a musical celebration of the man and his adventures, at 2 p.m. Jan. 19 in Edison Theatre. The performance is part of Edison Theatre's "ovations! for young people" program.

#### 'Columbus!'

## Play chronicles explorer's life

"Columbus!," a rousing musical tribute to the man and his spirit of adventure, will be presented at 2 p.m. Jan. 19 in Edison Theatre as part of the "ovations! for young people" series.

Theatreworks/USA says the new production marks the 500th anniversary of Columbus' greatest discovery and brings to life the late-15th-century world in which he lived.

Columbus was quite young when he first thought of seeking the treasures of the East by sailing west. The idea grew from his boyhood dream of following in the footsteps of Marco Polo.

The show chronicles Columbus' life as an inquisitive student of 15, as an adventurer, and as a 40-year-old man, too overwhelmed by his failures to appreciate the enormity of his achievement of opening a world previously unknown and changing history forever.

"Columbus!" is presented by Theatreworks/USA, a touring company specializing in theatre for young audiences. Now in its 30th year, Theatreworks has brought more than 25,000 performances to 23 million people nationwide. The company has won numerous awards, including the Sara Spencer Award, the highest honor in theatre for young audiences. The company won the award for the "sustained and exceptional accomplishment and a record of highly artistic productions of original works."

In previous seasons, Edison audiences have enjoyed Theatreworks/USA productions of "Play to Win: The Story of Jackie Robinson" and "The Velveteen Rabbit."

The company has dozens of productions in its repertoire, breathing fresh life into children's classics,

shedding new light on history with biographies of great Americans and exploring areas of critical importance to young people with issue-oriented shows, such as illiteracy, substance abuse and peer pressure.

Tickets to "Columbus!" are \$7 for all seats. For more information, call 935-6543.

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## Kemper Foundation sets up grants to improve learning

The William T. Kemper Foundation - Commerce Bank Trustee, has presented Washington University a \$150,000 grant to establish the Kemper Faculty Grants to Improve Learning, according to Chancellor William H. Danforth.

Michael D. Fields, executive director of the foundation, said the grant is being awarded to the University to be administered by its newly established Teaching Center under the leadership of Robert H. McDowell, Ph.D., professor of mathematics.

"This grant is made because of the foundation's interest in excellent teaching. I am confident that Washington University's focus on teaching and effective learning will augment the educational experience for students," Fields said.

Danforth expressed appreciation for the Kemper Foundation's dedication to teaching. "We are very grateful for this support of our central teaching mission," he said.

The Kemper Grants to Improve

Learning will recognize creative work on new courses or programs, similar to the Faculty Research Awards now offered through the Graduate School. A Panel on Teaching Awards, comprised of outstanding scholar-teachers and appropriate administrators, will solicit proposals from faculty or departments, and make awards to the most promising. The Kemper Awards might allow for some released time, summer support, experimentation, materials, etc., depending on the proposal. The sole criterion for an award is judgment that the effort will result in a significant new learning experience for undergraduates — one that will continue to be supported by the University in the years ahead.

Established in 1989, the William T. Kemper Foundation is dedicated to the late Mr. Kemper's lifelong interest in improving the human condition with emphasis on education, health and human services, civic improvements and the arts.

## Algae discovery — continued from p. 1

healthy soils. Thus, if the algae Nichols has discovered were allowed to run rampant, it would severely deplete the soil to the point where nothing could grow. The natural system of checks and balances in the prairie ecosystem allows *Sphaerelloecystis aplanosporum* to flourish in harmony with other microbes, flora and fauna.

Understanding the dynamics of that relationship is what drives the biologist to uncover the mysteries of the prairie. Nichols reported the discovery and characterization of the iron-craving algae in Archives Fur Protistenkunde, an international German journal. His research was supported in part by the Missouri Prairie Foundation in Columbia.

Algae, along with bacteria, are the oldest and most adaptable of life forms; their existence can be traced back in the fossil record to more than three billion years. They are the FILO (first-in-last-out) organisms of any ecosystem. After a volcano, for instance, they are the first organisms to migrate back into the destroyed areas. While no one has performed a soil profile of the lands around Chernobyl, Nichols says it is a certainty that algae will be the first organisms to make a go of the soils there, once they find them habitable.

Nichols has determined there are several major algae groups in prairie soils: Green algae dominate, sharing the soil with blue green algae, yellow green algae and diatoms, so named because their cell walls come in two halves. Diatoms are unique organisms with a perforated wall that basically is a glass box around the rest of the cell structure. Like the iron-loving algae Nichols recently described, diatoms crave silica. Their presence in the soil helps make clay soils more malleable.

Algae and bacteria are similar in that they are both photosynthetic organisms and can be studied in similar ways. These lower life forms also have potential to be harnessed and put to work for humans. Scientists experiment with and employ bacteria for a great number of purposes. They have been successfully used as insecticides (*Bacillus thuringiensis*) and biofilters that clean the air of odorous waste gases. They have been used in experiments to remove carbon from coal emissions. And they have been genetically engineered for use as live vaccines. For instance, Roy Curtiss, Ph.D.,

George William and Irene Koechig Freiberg Professor of Biology and chair of the department, has genetically engineered strains of *Salmonella* bacteria that he has used as live vaccines against *Salmonella* and various other diseases. By deleting disease-causing genes in the bacteria, Curtiss can deliver a vaccine to test animals that provokes an immune response in the animals but does not cause illness.

Scientists hold cautious hopes for algae. In fact, some researchers have proposed that oceanic algae blooms, encouraged through fertilization, could help ease the effects of global warming by their elimination of carbon dioxide in photosynthesis — they would use the carbon to create carbohydrates and release the oxygen. The notion is not on the drawing board yet, however.

Prairies draw to their environments a rich array of life from algae to insects, birds and other animals that live nowhere else. The prairie chicken, a member of the grouse family, is one of the better known inhabitants of the prairie, long struggling to survive in the face of competition from other species and dwindling habitat. Studies have shown that some of the insects existing in prairies are predators of crop pests, leading scientists to speculate that a patch of prairie near crop fields might lessen farmers' reliance upon toxic chemicals. The plants themselves, with root systems extending from eight to 15 feet deep, prevent soil erosion, and many of them add nutrients like nitrogen to the soil. Some of the predominant prairie grasses are big bluestem, Indian grass, prairie dropseed, switch grass and little bluestem. The prairie wildflowers, called forbs, include various species of sunflowers, prairie violets, western lilies and white and purple prairie clovers. From a distance, a patch of prairie looks rather nondescript, a beige carpet of grass. Up close, the crazy quilt of grasses and flowers is one of Nature's most splendid displays.

"Prairies are highly important because they are the only areas left that are undisturbed by humans," says Nichols. "They foster unique animals and higher plant life, and we're finding their basic elements are intriguing, too."

As for the importance of algae in biological systems, Nichols says never underestimate them.

— Tony Fitzpatrick



# NOTABLES

**Louis V. Avioli**, M.D., Sydney M. and Stella H. Shoenberg Professor of Medicine and professor of cell biology and physiology, recently was awarded the 1992 Ann Doner Vaughn Kappa Delta Award for outstanding research in bone metabolism from the American Academy of Orthopaedic Surgeons. The award will be presented to him at the Orthopaedic Research Society meeting in February 1992.

**Nicholas C. Burckel**, Ph.D., associate dean for collections and services at Olin, has been appointed to an editorial board for the Encyclopedia of Archives, to be published in 1995. In addition, Burckel is chairing an Ethics Task Force for the Academy of Certified Archivists.

**Arthur E. Carlson**, Ph.D., professor emeritus of accounting, has recently been named to Who's Who in American Education by the National Reference Institute of Chicago for significant accomplishment and leadership. Carlson's biography will appear in the 1992-93 edition of this publication.

**Kenneth Chilton**, deputy director of the Center for the Study of American Business, recently gave a presentation on "Setting Priorities for Municipal Solid Waste Management" at the annual St. Louis Regional Environmental Conference.

**Lawrence Conlon**, Ph.D., professor of mathematics, gave a lecture titled "Depth of Leaves in Foliated Knot Complements" at the Topology Seminar of the University of Tokyo. He also gave an invited paper at the Conference on Foliations: Trends and Prospects held in Atami, Japan. The title of the paper was "Surgery and Foliations of Knot Complements." He was a guest of the Tokyo Institute of Technology.

**Judy M. Destouet**, M.D., associate professor of radiology at the School of Medicine, took part in the discussion, titled "Current Controversies in the Management of Ductal Carcinoma In Situ (DCIS) of the Breast," at the 77th annual meeting of the Radiological Society of North America (RSNA). DCIS is a proliferation of malignant epithelial cells confined to the mammary ducts and accounts for about 20 percent of breast cancers. Destouet says large-scale screening for breast cancer has led to an increase in the number of cases of mammographically detected DCIS.

**Thomas Eagleton**, LL.B., University Professor of Public Affairs, was a keynote speaker during the two-day session of the Mondale Forum at the Hubert Humphrey Institute at the University of Minnesota. The Mondale Forum is an annual event in which academicians, journalists and political figures focus on a topic of current interest. This year's topic, "The Problem With Politics ...," centered on the growing difficulties and tensions within the American political system.

**William Gass**, Ph.D., director of the International Writers Center and David May Distinguished Professor in the Humanities, was featured in the Fall 1991 issue of The Review of Contemporary Fiction. The issue contained a short story, essay, interview and critical interpretations of Gass' work. *A Temple of Texts: Fifty Literary Pillars*, the exhibit catalog that inaugurated the center, also was favorably reviewed by the journal. In addition, Gass' essay, titled "In St. Louis, an American

Dream," was published in The New York Times supplement The Sophisticated Traveler.

**Patton Hasegawa**, adjunct instructor in performing arts, received an Emmy award for writing and directing the Best Children's Program of 1990. The program was titled "Making Choices." In addition, she received a Marconi Award for a radio voice-over, which was judged the Best Female Vocal Talent of 1990.

**George Johnson**, Ph.D., professor of biology, took part in the first meeting of the National Research Council's newly appointed Commission of Teacher Inservice held at the National Academy of Science in Washington, D.C. Appointed for 18 months, he and the other 14 members of the new commission are charged with evaluating how well teacher enhancement programs are doing their job of using University and other resources to provide up-to-date training and stimulation to secondary school teachers. The commission is to develop guidelines for future federal funding of these programs, which are proving increasingly popular nationwide.

**Ty Keough**, men's soccer coach, has been named chairman of the Intercollegiate Soccer Association of America's South Central Regional Rating Board. In that capacity, he also will serve as a national rater for the "Gatorade" National College Soccer Rankings. In addition, Keough provided the color commentary on the recently aired broadcast of the U.S. World Cup Team vs. The National Team of North Korea game, which was played at RFK Stadium in Washington, D.C., and seen nationally on Sports Channel America.

**William D. Middleton**, M.D., associate professor of radiology at the School of Medicine, presented "Color Doppler Ultrasound Criteria for the Diagnosis of Varicoceles," at the 77th annual meeting of the Radiological Society of North America (RSNA). Color Doppler Ultrasound (CDU) is a radiologic procedure that aids in diagnosing a form of male infertility known as varicoceles. A varicocele, which occurs when blood cannot flow away from the scrotum, consists of a tangle of engorged, sometimes painful vessels that surround the testicle. Varicoceles accounts for nearly 40 percent of male infertility.

**Stephan K. Schindler**, Ph.D., assistant professor in the Department of Germanic Languages and Literatures, presented a paper, titled "Der Nationalsozialismus als Bruch mit dem alltäglichen Faschismus: Maria Handkes typisiertes Frauenleben in 'Wunschloses Unglück,'" at the 15th annual conference of the German Studies Association in Los Angeles.

**Henry I. Schvey**, Ph.D., professor and chair of performing arts, has been named to the editorial board of a new journal titled American

## 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 p72245DP at WUVMC. Please include a phone number.



**A strong foundation:** Stanley and Lucy Lopata recently participated in cornerstone-laying ceremonies for the Natural Sciences Building, which is being constructed just south of Wilson Hall. Stanley Lopata is chair of the Natural Sciences Building committee and an emeritus trustee. The Lopatas have given generous contributions to many campus programs and construction projects. The new building will provide research and office space for the Departments of Biology and Earth and Planetary Sciences, as well as classroom and lecture space for other University departments and schools. Construction will be completed by late 1992.

Drama. The journal, which will be published twice yearly by the American Drama Institute at the University of Cincinnati, will explore the legacy of dramatic literature from the earliest to the most recent playwrights. The journal also will feature discussions of American dramatic diversity and promote critical examinations of trends in the writing of drama, as well as specific examinations of the career of American playwrights.

**John Suydam**, a doctoral candidate in musicology, presented a paper at the annual meeting of the American Musicological Society in Chicago. The title of the paper was "'Mein Traum' and the 'Unfinished' Symphony: A Reinterpretation." The paper was a psychobiographical study linking a Schubert document to one of Schubert's best-known compositions.

**Marc Wallace**, a senior mathematics major, has received one of eight prizes awarded nationwide by Pi Mu Epsilon, the National Honorary Mathematics Society. The prize is in recognition of his presentation titled "Pearls, Sham Pearls, and D.U.D.E.N.E.Y.," delivered at the

1991 annual Pi Mu Epsilon meeting at the University of Maine in Orono.

**Patty Jo Watson**, Ph.D., professor of anthropology, and **Richard A. Watson**, Ph.D., professor of philosophy, are 1991-92 Fellows at the Center for Advanced Study in the Behavioral Sciences in Stanford, Calif. Patty Jo Watson is working on two books, one on Late Archaic shellmound archaeology in Kentucky and the other on proto-Zuni archaeology in New Mexico. Richard Watson also is working on two books, one on the question of how ideas represent their objects and the other on the later years of Descartes. Patty Jo Watson is receiving financial support from the National Science Foundation. Richard Watson is receiving funding from the Mellon Foundation.

**Stuart D. Yoak**, Ph.D., University registrar, recently presented a paper on "Document Imaging, Optical Storage and the New Technologies for Records Management," at the annual conference of the Missouri Association of College Registrars and Admissions Officers. He also was elected association vice president for programs during the conference business meeting.

## 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.

**Pictures of the human brain as it thinks sad thoughts** and hears and remembers words have been taken for the first time by a team of scientists led by Marcus Raichle, M.D., professor of neurology and neurological surgery, according to ABC's "World News Tonight." The discovery may provide researchers the means to research the mental processes of healthy individuals and may lead to improved treatments for people with damaged brains. The story also was used by the following national and international media:

*London Daily Telegraph*, Reuters, *Paris Match* (France), *Der Stern* (Germany), *Der Spiegel* (Germany), *Quick Magazine* (Germany), *La Repubblica* (Italy), Atlantic Network (Argentina), *Woman's Day* (Australia), SIPA Press (Europe), SYGMA Photos (Europe), Italian Republic Television, *Los Angeles Times*, *USA Today*, *The New York Times*, *Newsday*, *Detroit News*, *Chicago Sun-Times*, *Philadelphia Inquirer*, *Dallas Morning News*, *San Diego Union*, *St. Louis Post-Dispatch*, *Kansas City Star*, *Oregonian*, *Pittsburgh Press*, *Omaha World-Herald*, *Providence Journal*, *Birmingham News*, *Cincinnati Post*, *Atlantic City Press*, *Staten Island Advance*, *Lincoln Journal*, *Great Falls Tribune*, and 17 smaller newspapers, between Nov. 11 and Dec. 10.



# CALENDAR

Dec. 12-Jan. 18

## LECTURES

### Thursday, Dec. 12

**4 p.m. Dept. of Hematology and Oncology Presents The Nineteenth Annual Carl Vernon Moore Memorial Lecture,** "Genetic Alterations Underlying Colorectal Tumorigenesis," Bert Vogelstein, prof. of oncology, The Johns Hopkins U. School of Medicine. Moore Aud., North Bldg., 4580 Scott.

**4:30 p.m. Dept. of Mathematics Colloquium,** "Wavelets," Guido Weiss, WU prof. of mathematics. Room 199 Cupples I.

**5 p.m. Divisional Research Discussion for Students Seminar Series,** "Investigating Protein, Structure and Function by NMR: Basic Principles and Strategies," David Cistola, WU Dept. of Biochemistry and Molecular Biophysics. Room 423 McDonnell Medical Sciences Bldg.

### Friday, Dec. 13

**9:15 a.m. Pediatric Grand Rounds,** "American Medical Education: Past, Present, and Future," Kenneth Ludmerer, WU assoc. prof. of medicine and history. Clopton Aud., 4950 Audubon Ave.

**4 p.m. Dept. of Hematology and Oncology Seminar,** "Gene Therapy for Serum Protein Deficiencies," Kathy Parker-Ponder, WU Dept. of Biochemistry and Medicine. Room 8841 Clinical Sciences Research Bldg., 4939 Audubon Ave.

### Saturday, Dec. 14

**9 a.m. Saturday Morning Neural Science Seminar,** "Neurobiology of Stroke: Prospects for Stroke Therapy," Dennis Choi, WU Dept. of Neurology. Erlanger Aud., McDonnell Medical Sciences Bldg.

### Monday, Dec. 16

**4 p.m. Dept. of Biology Seminar,** "Evolution in Subdivided Populations," Michael Wade, prof. and chair, Dept. of Ecology and Evolution, U. of Chicago. Room 322 Rebstock Hall.

### Tuesday, Dec. 17

**4 p.m. Dept. of Genetics Seminar,** "Drosophila Spermatogenesis—A Model for Intracellular Morphogenesis," Wolfgang Hennig, Dept. of Molecular and Developmental Genetics, Catholic U., The Netherlands. Room 816 McDonnell Medical Sciences Bldg.

### Wednesday, Dec. 18

**8 a.m. Dept. of Obstetrics and Gynecology Grand Rounds,** "Acute Leukemia and Pregnancy," Monte Masten, WU chief resident, Dept. of Obstetrics and Gynecology. Schwarz Aud., Maternity Hospital.

### Thursday, Dec. 19

**4 p.m. Central Institute for the Deaf Research Seminar,** "Temporal Decline of Simultaneous Masking: Evidence for Within and Across Channel Masking," Beverly Wright, Hearing Research Center, Dept. of Psychology, U. of Florida. Second Floor Aud., Clinics and Research Bldg., 909 S. Taylor Ave.

### Friday, Dec. 20

**9:15 a.m. Pediatric Grand Rounds,** "Metabolic Causes of Neonatal Hepatitis," David Perlmuter, WU assoc. prof. of pediatrics and of cell biology and physiology; and Carl Jeffrey Sippel, WU asst. prof. of pediatrics. Clopton Aud., 4950 Audubon Ave.

### Friday, Jan. 3

**6 and 8:30 p.m. WU Association Travel Lecture Series Presents "Japan,"** with Pat McCarrier. McCarrier's experiences include hitchhiking to Alaska, motorcycling across Mexico, bicycling across Ireland and hiking across New Zealand. Graham Chapel. Cost: \$4.50. For more info., call 935-5212.

### Wednesday, Jan. 8

**8 a.m. Dept. of Obstetrics and Gynecology Grand Rounds,** "Thyroid Disease in Pregnancy," Lee A. Rigg, chair, Dept. of Obstetrics and Gynecology, St. Luke's Hospital. West Pavilion Amphitheater, Barnes Hospital.

### Monday, Jan. 13

**4 p.m. Immunology Seminar,** "Synthesis of Nitric Oxide From L-Arginine: A Recently Discovered Pathway Induced by Cytokines With Antimicrobial Activity," John B. Hibbs Jr., prof., Dept. of Medicine, U. of Utah. Third Floor Aud., Children's Hospital, 400 S. Kingshighway.

## Calendar Deadline

The deadline to submit items for the Jan. 16-25 calendar of the Record is Jan. 10. 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 Marilyn Chill, Box 1070, or by electronic mail to p72245CM at WUVMC.

### Wednesday, Jan. 15

**8 a.m. Dept. of Obstetrics and Gynecology Grand Rounds,** "Lasers in Gynecology: Physics, Safety, and Options," Randall R. Odem, WU asst. prof., Dept. of Obstetrics and Gynecology. West Pavilion Amphitheater, Barnes Hospital.

**11 a.m. Assembly Series Presents** the William C. Ferguson Memorial Lecture, "Science and Politics in China," Fang Lizhi, astrophysicist Graham Chapel. For more info., call 935-4620.

## PERFORMANCES

### Friday, Jan. 17

**8 p.m. Edison Theatre "Stage Left" Series Presents** an "All American Program" with accordionist Guy Klucsevsek. ("International Program": Jan. 18, same time.) Mallinckrodt Center Drama Studio, Room 208. Cost: \$10 for general public; \$8 for senior citizens and WU faculty and staff; and \$6 for students. For more info., call 935-6543.

## MUSIC

### Sunday, Dec. 15

**3 p.m. Dept. of Music Presents** the Bel Canto Chorus of St. Louis. Graham Chapel. Cost: \$6 at the door, with discounts available for senior citizens, students and KWMU members. For more info., call 997-3992.

**7:30 p.m. Dept. of Music 30th Anniversary Celebration Concert,** featuring the University City Symphony. Graham Chapel. Cost: \$5 for the general public; \$3 for students and senior citizens. For more info., call 994-1760.

### Tuesday, Dec. 17

**8 p.m. Dept. of Music Faculty Voice Recital** with soprano Christine Armistead, WU instructor in voice. Graham Chapel. Free.

## EXHIBITIONS

### "Washington University Art Collections."

Through May 1992. Gallery of Art, lower gallery, Steinberg Hall. Exhibit hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-5490.

**"A Continuous Between: The Poetry of Donald Finkel."** Through Jan. 3. Special Collections, Olin Library, Level 5. Exhibit hours: 8:30 a.m.-5 p.m. weekdays. For info., call 935-5495.

**"The Binding Influence: A Celebration of the Medical School Centennial."** Through Dec. 27. Glaser Gallery, School of Medicine Library. Exhibit hours: 8:30 a.m.-10 p.m. weekdays. For more info., call 362-4239.

**"Barry Schachtman Exhibition."** Through Jan. 12. Gallery of Art, upper gallery, Steinberg Hall. Exhibit hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-5490.

**"The National Invitational Drawing Exhibition."** Through Dec. 22. Bixby Gallery, Bixby Hall. Exhibit hours: 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4643.

## SPORTS

### Saturday, Dec. 14

**7:30 p.m. Women's Basketball.** WU vs. U. of Missouri-St.Louis. Field House. Free.

### Friday, Jan. 3

**8 p.m. Men's Basketball.** WU vs. U. of the South. Field House. Free.

### Saturday, Jan. 4

**8 p.m. Men's Basketball.** WU vs. Rose-Hulman Institute. Field House. Free.

### Tuesday, Jan. 7

**7:30 p.m. Women's Basketball.** WU vs. Millikin U. Field House. Free.

### Monday, Jan. 13

**6:30 p.m. Men and Women's Swimming and Diving.** WU vs. Principia College. Millstone Pool. Free.

### Friday, Jan. 17

**6 p.m. Women's Basketball.** WU vs. Johns Hopkins U. Field House. Free.

**8 p.m. Men's Basketball.** WU vs. Johns Hopkins U. Field House. Free.

### Saturday, Jan. 18

**1 p.m. Men and Women's Swimming and Diving.** WU vs. DePauw U.; WU vs. U. of Missouri-Rolla (men only); WU vs. William Woods College (women only). Millstone Pool. Free.

## MISCELLANY

### Friday, Dec. 13

**8:30 a.m. Faculty Senate.** Room 118 Brown Hall. For info., call Provost Office at 935-5151.

**Noon-9 p.m. Dept. of Music and Staufen's Music House Sponsored Piano Sale.** (Also Dec. 14, 10 a.m.-9 p.m., and Dec. 15, 11 a.m.-6 p.m.) Former Boyd's store, 7511 Forsyth, Clayton. For more info., call 394-5050.

### Saturday, Jan. 4

**9-11 a.m. University College Orientation and Information Workshop,** "Returning to Learning." A back-to-school workshop designed for those considering a return to college. Room 30 January Hall. Free. Advance reservations necessary. For more info., call 935-6777.

## Chinese astrophysicist Fang Lizhi will open spring Assembly Series

Astrophysicist Fang Lizhi, considered one of China's most brilliant scientists, will deliver the William C. Ferguson Memorial Lecture at 11 a.m. Jan. 15 in Graham Chapel. His lecture, which will open the University's spring Assembly Series, is free and open to the public.

Fang, who has come to symbolize the difficult position of intellectuals in China, will speak on "Science and Politics in China." His research into the structure of the universe has resulted in more than 180 papers and an international reputation. His newest and 22nd book, published earlier this year, is *Bringing Down the Great Wall: Writings on Science, Culture and Democracy in China*.

Known as "China's Sakharov," Fang has long been an outspoken critic of China's Communist government. When student-led pro-democracy protests erupted on an unprecedented scale at Beijing's Tiananmen Square in early June 1989, the party blamed the unrest on him. Fearing for their lives, Fang and

### Saturday, Jan. 11

**10 a.m.-Noon. University College Orientation and Information Workshop,** "Introduction to Washington University." Workshop includes new student orientation and campus tour. Free. Advance reservations necessary. For more info., call 935-6777.

### Saturday, Jan. 18

**10:30 a.m.-Noon. University College Presents** a Short Course, "Viewing Contemporary Dance," with Evy Warshawski, manager and director, Edison Theatre; Robert Small, coordinator, WU Dance Division; Adam Pinsker, executive director, Dance St. Louis; and Annelise Mertz, WU prof. emeritus of dance. Course continues Jan. 23 at 5-6:30 p.m., and three consecutive Saturdays through Feb. 8. Cost: \$100 (includes admission to Pilobolus Dance Theatre performance on Jan. 24 at Edison Theatre).

his wife, physicist and dissident Li Shuxian, and their son, Fang Ke, took refuge in the American embassy. The Chinese government issued a warrant for their arrest, then 13 months later allowed them to go into exile.

Fang, who has accepted a position as a professor of physics at the University of Arizona, is finishing an appointment with the Institute for Advanced Study in Princeton, N. J.

His awards and honors are numerous. Among those for science, Fang won the National Award for Science and Technology in 1978, the Chinese Academy of Sciences Award in 1982, and the New York Academy of Sciences Award in 1988. His awards for human rights advocacy include the Human Rights Award of Robert F. Kennedy in 1989 and the Human Rights Award from the International League for Human Rights in 1991.

For more information, call 935-4620.

## Master accordionist returns to University

Master accordionist Guy Klucsevsek, described by The Village Voice as "the first wide-ranging explorer in the virgin field of avant-garde accordion," will return to Washington University at 8 p.m. Jan. 17 and 18, in Mallinckrodt Center's Drama Studio, Room 208.

Klucsevsek, who brought an Edison Theatre audience to its feet when he performed with "Serious Fun! From Lincoln Center" two years ago, has been credited with the recent revival of the accordion among modern composers and performers.

He returns as the second event in Edison Theatre's "Stage Left" series. Klucsevsek will perform an "All-American" program on Jan. 17 and an "International" program on Jan. 18.

A native of the Slovenian region of western Pennsylvania's coal-mining country, Klucsevsek grew up playing polkas on accordion and tuba. Then, in an effort to expand the possibilities of the accordion, Klucsevsek focused on minimalist music and on composing his own works. In the course of this exploration, Klucsevsek redefined accordion music.

"Guy Klucsevsek's virtuoso set is the surprising highlight of the show, considering that he breaks down all misconceptions of the limitations of the 'squeeze box,' reported the Honolulu Advertiser. "In his able hands, the accordion emits rich sounds that range widely in depth and emotion. He can make it comical, as with John Zorn's 'Road Runner,' a dizzying array of knocks, wheezes, sighs and quick musical bits, and Klucsevsek can even find variation in the tried-and-true polka."

In 1986 Klucsevsek commissioned a series of polkas from 31 contemporary composers, most of whom had never written a polka. The resulting collection, "Polka From the Fringe," was, says Klucsevsek, "an alternative polka collection, bringing together the form I grew up with and the vocabulary I've been interested in as an adult."

Tickets for Guy Klucsevsek's concert are \$10 for the general public; \$8 for senior citizens and Washington University faculty and staff; and \$6 for students. For more information, call 935-6543.

## Parking — continued from p. 1

provide visitors with daily or weekly parking permits, according to Sparks. The \$1 daily and \$5 weekly permits may be purchased at the Transportation Department office, which is located in the basement of the Women's Building. Daily permits also are available at the Cashier's Office in North Brookings Hall. Daily and weekly permits may be used in yellow zones only.

Additionally, some individual

departments have developed guidelines on providing visitor parking for their guests. These guidelines include reserving through the Transportation Department a block of parking spaces for large group meetings and sending guests, in advance of their visit, a campus parking map indicating areas where they may park.

For more information about visitor parking, call the Transportation Department at 935-5601.