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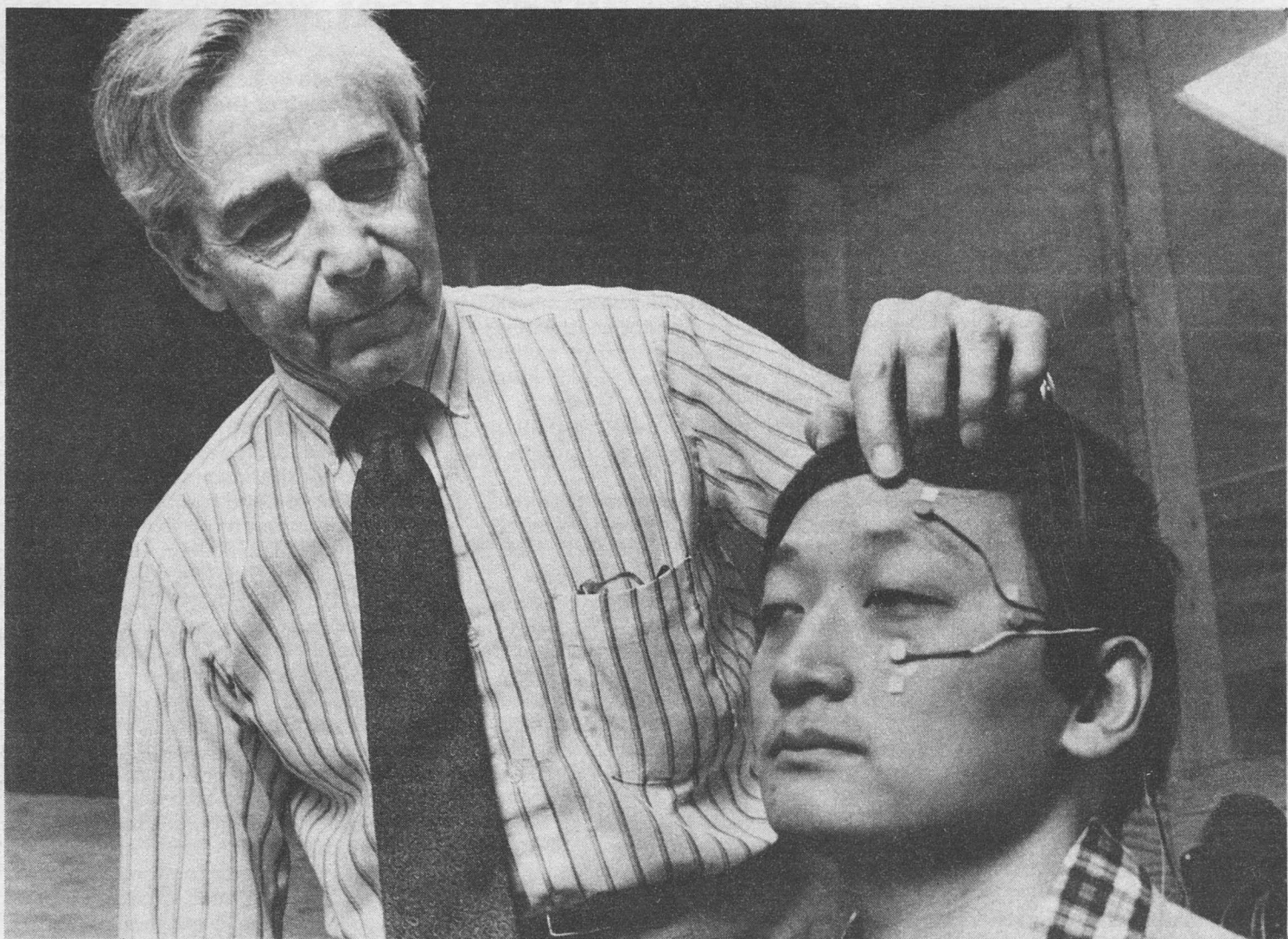
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FEB 3 '88 Vol. 12 No. 18/Feb. 4, 1988



John A. Stern, Ph.D., uses electrodes to monitor the eye movements and blinks of Zijiang He, a former graduate student in psychology.

Brain's punctuation marks

Blink research pioneer says we don't blink at random

Winking, blinking and nodding communicate many messages. A wink can be used in a teasing way, to convey a secret between two people or as part of a "come hither" overture. A nod might signal agreement, attentive listening or simply "hello."

But a blink! A blink takes us into the deepest, darkest recesses of the mind. A blink can indicate such feelings and functions as anxiety, fatigue, boredom, storing information, making decisions, performing a difficult task, or shifting visual attention.

"We don't blink at random," says John A. Stern, Ph.D., professor and chairman of the psychology department. "We blink at times that are psychologically important. You have listened to a question, you understand it, now you can take time out for a blink. Blinks are punctuation marks. Their timing is tied to what is going on in your head."

The physiological impulse to blink to moisten and cleanse the cornea occurs only once every two minutes, according to studies of infant blinking. But adults blink an average of 10 to 15 times a minute, Stern says.

A leader in the blossoming field of blink research, Stern frequently contributes to the professional journals *Psychophysiology* and *Human Factors*. Currently his research is supported by the National Aeronautics and Space Administration, U.S. Air Force, Federal Aviation Administration and McDonnell Douglas Corp. Earlier work was supported by the Automobile Club of America. Stern conducts tests both at his St. Louis labs and on location with his clients.

"Much of the basic research is being done here," he says. "But we are making our technology available to others or giving them some results that they are interested in replicating."

He has monitored the blinks of pilots in flight simulators to detect signs of decreased performance. Now the Air Force is testing pilots in real flights.

Stern's dream, however, is to install similar monitors in cars so other drivers would be warned to avoid dangerous drivers.

As a psychophysiological (a psychologist who uses physiological measures), he became interested in blinking during the Watergate hearings. "President Nixon's blink rate markedly increased when asked a question he was not prepared to answer," Stern says. "His speech was well-controlled and did not manifest other symptoms of anxiety, but you could see it in his eyes. Most politicians have learned to disguise feelings except in ways they cannot inhibit." Television announcers, on the other hand, are trained to inhibit blinks because they are distracting to the viewer, he adds.

In the lab, Stern monitors blinks with a video camera, corneal reflection or electrodes. Although Stern knows that people don't like to sport electrodes, he says the same goals can be accomplished by shining undetectable infrared lights in the eyes and monitoring the amount of light that is reflected. During a lid closure, less light is reflected.

A research physiologist with the Air Force calls Stern "a pioneer in blink

research." James C. Miller, Ph.D., is chief of the human factors branch of the Air Force Flight Test Center at Edwards Air Force Base, California.

"Before John's work, everybody studied blink rates," Miller says. "Now they are studying the shape of the blink wave form (like an electrocardiogram). The blink shape tells us a lot more about alertness than blink rate."

Miller says the Air Force has used Stern's research with some success. "The Air Force is interested in blinking as one of the signals to be used to monitor the alertness of equipment operators, such as pilots and flight controllers."

Using aspects of blinking and eye movement, the Air Force researchers found a high correlation between the blink measures and errors in flight performance.

"Essentially, as you get more tired, your blink gets less crisp," Miller says.

"Man is not a good animal for maintaining vigilance and, with modern aircraft, the pilot's task gets boring," Stern says. "We want to monitor the pilot's ability to maintain vigilance. If it drops, we want to inform him or someone else that he is not functioning effectively. Control then goes to someone else or a computer aboard the aircraft."

Blinking while driving varies according to traffic, Stern says, based on research that he and others have conducted with drivers. In city traffic, you blink less frequently and the eye closure is of shorter duration. You have more freedom to blink on a cross-country highway. If you are stopped at

Continued on p. 4

'Eyes on the Prize' producer to discuss civil rights years

Henry Hampton, executive producer of the award-winning PBS documentary "Eyes on the Prize: America's Civil Rights Years, 1954-1965," will speak at 11 a.m. Wednesday, Feb. 10, in Graham Chapel.

The lecture, titled "Eyes on the Prize," is part of the Assembly Series and is free and open to the public.

Hampton, a 1961 Washington University graduate, is founder and president of Blackside Inc., a Boston-based independent film company that has produced more than 40 major films and media projects, including the "Eyes on the Prize" series.

The PBS series, a six-part review of the early civil rights movement in America, first aired a year ago. Since then the series has won numerous broadcast and journalistic honors. The series is currently being repeated on Channel 9. For six Mondays, beginning Jan. 25, the one-hour programs are being shown at 9 p.m.

Among other Blackside projects are "Kinfolk," a documentary that examines the black family, and "Voices of a Divided City," a nationally broadcast PBS documentary about the aftermath of Boston's public schools' desegregation.

While serving as press officer to the Unitarian Church, Hampton participated in the 1965 Selma-to-Montgomery, Ala., march. He left the position that year to pursue his interest in film.

For more information on the lecture, call 889-5285.

Name change for Chinese, Japanese department

After 25 years, the Department of Chinese and Japanese has changed its name to reflect an expanded geographical vision. It is now called the Department of Asian and Near Eastern Languages and Literatures.

The change was spurred by students' growing enthusiasm for Near Eastern courses, says Robert E. Hegel, Ph.D., department chairman and associate professor of Chinese language and literature. The students' interest is part of a nationwide trend, he continues. "Many Americans now realize the importance of the Near East."

In conjunction with the change, Hegel says Turkish language courses will be offered for the first time next fall. A Persian course is offered this semester through University College and other Near Eastern courses will be offered soon, he adds. "Requirements are being finalized for allowing students to major or minor in Near Eastern languages as well."

Hegel says the department's faculty are pleased to participate in the University's new Center for the Study of Islamic Societies and Civilizations. The center, one of the few in the Midwest and the only one in St. Louis, encourages and coordinates interdisciplinary research on the history, religion and cultures of the Islamic peoples.



Washington University alumnus H. Richard Duhme Jr. displays the bronze medal he created for finalists in the 10th High School Art Competition, sponsored by School of Fine Arts alumni.

200 high school artists display work in juried exhibit at Bixby Gallery

Approximately 200 juniors and seniors representing more than 30 high schools in the St. Louis area have their art work displayed in a juried exhibit through Feb. 14 in Bixby Gallery, Bixby Hall.

This is the 10th year of the High School Art Competition, which is sponsored by alumni of the University's School of Fine Arts. Ten seniors selected as finalists received bronze medals created by St. Louis sculptor H. Richard Duhme Jr. to celebrate the first decade of the competition.

Duhme, a Washington University alumnus, taught at the University from 1947 to 1982 and now is professor emeritus of art. He also taught at John Burroughs School in St. Louis.

The finalists also are eligible for scholarships offered by 14 participating art schools, colleges and universities. Three portfolio semi-finalists received certificates of award. An awards presentation was held Jan. 31 in Stein-

berg Auditorium.

The finalists and their schools are: Anthony Gaddis, Affton; Jeremy Costello and Darren Wilson, Honors Art magnet program (St. Louis Public Schools); Marcia Wilderman, Honors Art program and McCluer; Amy Blythe, Kaoru Sakurai, Alexander Young and Terry Ziegelman, Parkway Central; Sonjie Feliciano, Villa Duchesne; and Lisa Alexander, Webster Groves.

Semi-finalists are: Scott Kurz, Honors Art; Tracy Calcaterra, Villa Duchesne; and Ginger Adkins, Webster Groves.

The juror for the exhibit was Stanley Tasker, Washington University professor emeritus of art, who originated and directed the school's Saturday and summer art classes for high school students until 1985. Bixby Gallery hours are 10 a.m. to 4 p.m. weekdays and 1 to 5 p.m. weekends.

For more information, call 889-4643.

Award-winning architect to lecture

Award-winning architect William Morgan will speak in the University's Monday Night Lecture Series at 8 p.m. Monday, Feb. 8, in Steinberg Hall auditorium.

The lecture, titled "The Architecture of William Morgan," is free and open to the public.

Sponsored by the School of Architecture and Student Union, the Monday Night Lecture Series offers a series of speakers in the areas of art, architecture, design, urban planning, and landscape architecture. Morgan's lecture is co-sponsored by the Steedman Governing Committee.

Morgan, founder of William Morgan Architects in Jacksonville, Fla., is a graduate of the Harvard University Graduate School of Design. He has received numerous awards for his projects, including the Florida Associa-

tion AIA Award for the design of the Jacksonville Children's Museum; and eight Architectural Record Awards of Excellence for the design of residences.

Morgan's other projects include the Jacksonville Police Memorial Building, the Pyramid Condominium in Ocean City, the Federal Courts and offices in Fort Lauderdale, and the United States Embassy in Khartoum, Sudan.

Author of *Prehistoric Architecture in the Eastern United States*, which documents 3,700 years of architectural evolution prior to the arrival of Columbus in the New World, Morgan's "Prehistoric Architecture in Micronesia" is scheduled for publication in June.

For more information on the lecture, call 889-6200.

Special Olympics here attracts some 1,000 student volunteers

Members of the Zeta Beta Tau fraternity at Washington University are busy making plans for the 1988 Special Olympics, an athletic competition for mentally handicapped athletes that will be held Sunday, Feb. 14, at the athletic complex.

More than 600 athletes are expected to compete in the Special Olympics, which will feature a basketball tournament, an individual/developmental skills competition, a cheerleading competition, and the Alpha Phi Omega "Olympic Town" carnival, complete with face painters, balloon sculptors and professional clowns and musicians.

The St. Louis Football Cardinals' cheerleaders will perform before the carnival and a deejay celebrity game between K-SHE 95 deejays and a Special Olympics team will be held.

In addition to the athletes, approximately 1,000 student volunteers will participate in the Special Olympics. Among other tasks, most of the Washington volunteers will serve as buddies, whose main responsibility is to accompany the athletes throughout the day.

A proclamation signed by Vincent C. Schoemehl Jr., mayor of the City of St. Louis, acknowledges Washington University students for their commitment to the Special Olympics. The mayor proclaimed the week of Feb. 14, 1988, as Special Olympics week.

There is no charge for the Special Olympics, which is open to the University community. Free lunches and T-shirts will be given to the athletes and volunteers. The opening ceremonies begin at 8 a.m. and events will continue until 5 p.m. All complex facilities will be occupied for the entire day on Feb. 14.

This is the second year that the University has hosted the event, which

is organized by Zeta Beta Tau. Sponsors are Student Union, Commerce Bank of St. Louis, Domino's Pizza and radio station K-SHE 95.

According to Gil A. Gross, chairman of the Special Olympics Planning Committee, the purpose of the competition is twofold: to offer Washington's athletic resources to special olympians and to give the athletes a chance to compete.

"Being involved in Special Olympics is a tremendous learning experience for the volunteers," says Gross, a senior biology major. "They learn that mentally handicapped people are capable of experiencing every emotion — just like you and I. Nothing brings that emotion out more than an athletic competition. The athletes are so caring. Even if they lose, they forget easily." He added that all the athletes will receive awards, not just the top three finishers in each division.

Besides Gross, the other members of the Special Olympics Planning Committee are Larry Chao, volunteer chairman; David Eisenberg, treasurer; Andrew Levy, athletics chairman; Michael Frand, non-athletics chairman; Chip Usher, publicity chairman; and Frank Quinn, carnival chairman.

At the opening ceremonies to be held in the field house, Chancellor William H. Danforth will deliver the welcoming address. The basketball tournament and cheerleading competition will begin at 8:30 a.m. The tournament will be held in the recreation gym and the field house. The field house also is the site for the cheerleading competition.

The individual/developmental skills competition will be held from 8:30 to 11:30 a.m. in Francis Gymnasium. The "Olympic Town" carnival begins at noon at the same location.

For more info., call 862-6822.

Memory studies seek people over 60

The Aging and Development Program at Washington University is seeking healthy volunteers over age 60 to participate in two memory studies.

In the first study, co-sponsored by United Airlines, researchers will investigate ways to improve memory in making travel plans. Only people who intend to travel this year are eligible.

The second will emphasize retrieval of information as needed on a day-to-day basis. Self-instruction manuals, to be completed privately, will be used to help participants with common memory challenges, like where they left their car keys.

"Many older people worry about their increased forgetfulness," says Martha Storandt, Ph.D., professor of psychology and neurology and director of the program. "Some think the minor memory failures experienced by all of us are the first signs of Alzheimer's disease, a progressive deterioration of the brain that is found largely in people over age 60. But some difficulty with memory is normal in later life."

Often such memory lapses can be minimized by using memory aids, she continues. Two studies conducted at Washington University demonstrated the effectiveness of a self-help manual that taught specific strategies to improve memory. The two new

studies are designed to refine and improve these techniques.

To volunteer, call 889-6522.

RECORD

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NOTABLES

Ramesh K. Agarwal, Ph.D., affiliate professor of mechanical engineering, presented an invited seminar on "Computational Fluid Dynamics — Aerospace Applications" at the Massachusetts Institute of Technology.

Louis E. Alfeld, J.D., affiliate professor of civil engineering and engineering policy, recently was admitted to the Missouri Bar.

Garland E. Allen, Ph.D., professor of biology, delivered a lecture on "The Gene Fix: The Social Origins of Genetic Determinism" at a conference on "Historical and Philosophical Problems in Medical Genetics" on Dec. 12. The conference, the 25th Trans-disciplinary Symposium on Philosophy and Medicine, was sponsored by the Division of Medical Ethics and the Department of History and Philosophy of Health Sciences at the University of California at San Francisco Medical School. He presented an earlier version of the same lecture at the Department of Genetics, Western Pennsylvania Hospital and University of Pittsburgh Medical School. The talk focuses on the social history of theories claiming that human societal problems (alcoholism, criminality, unemployment) are caused by defective genes.

Deirdre Boden, Ph.D., assistant professor of sociology, gave a bilingual presentation of her paper titled "Temps, Espace et Interaction" at the First International Conference on Action Analysis and Conversation Analysis at the Maison des Sciences de l'Homme in Paris.

Pedro Celso Cavalcanti, Ph.D., adjunct associate professor of sociology, has been named to the editorial board of the Latin American Research Review. Also, he was a guest lecturer at the University of New Mexico-Santa Fe during a five-week institute on Brazil. Sponsored by the National Endowment for the Humanities, the institute was for faculty of Latin Americanists in the United States.

Gregory Claeys, Ph.D., associate professor of history, has written a book, titled *Machinery, Money and the Millennium: The New Moral Economy of Owenite Socialism, 1815-60*, published by Princeton University Press in December. The book represents a reappraisal of the history of early socialist economic thinking.

Gray Dorsey, J.D., J.S.D., Charles Nagel Professor of Jurisprudence and International Law, will have published by Transaction Books a seven-volume work on jurisprudence. The publisher has received the manuscript for the first volume, *Jurisprudence: Greece and Rome*. Subsequent volumes, to be published at one-year intervals, will cover traditional India and China, Medieval and Early Modern Europe, with four volumes on modern era developments in England, Germany, the Soviet Union and the United States.

William H. Gass, Ph.D., David May Distinguished University Professor in the Humanities and professor of philosophy, was chairman of a conference attended by 31 exiled writers, including last year's Nobel laureate for literature, Joseph Brodsky. The

conference, titled "The Exile as Writer," was held Dec. 3-5 in Vienna and comprised leading novelists, poets, playwrights and critics from 15 countries of origin. The conference was sponsored by the Wheatland Foundation and funded by Reliance Group Holdings Inc., both of New York.

Michael M. Greenfield, J.D., professor of law, delivered two speeches at the Consumer Protection Conference of the National Association of Attorneys General. He spoke on "The Liability of Financiers of Consumer Transactions for Sellers' Violations of State and Federal Law" and "The Regulation of Rent-To-Own Transactions."

James P. Keating, M.D., professor of pediatrics at the School of Medicine, has been elected to a two-year term as president of the medical staff at Children's Hospital. At Children's, Keating is director of gastroenterology and nutrition, director of the pediatric training program and co-director of the pediatric intensive care unit.

Saulo Klahr, M.D., Joseph Friedman Professor of Renal Disease and director of the Renal Division at the School of Medicine, and William E. Mitch of Emory University have edited a book on *Nutrition and the Kidney* published by Little, Brown and Company of Boston, Mass. The book provides a comprehensive presentation of nutrition in patients with renal disease, on dialysis or after transplantation. Klahr also is the editor of a biannual series, titled *Contemporary Nephrology*, published by Plenum Medical Publishers in New York City. The fourth volume in this series appeared last fall.

Allan Larson, Ph.D., assistant professor of biology, presented an invited lecture, "The Relationship Between Speciation and Morphological Evolution," at the Academy of Natural Sciences of Philadelphia Symposium on Speciation and Adaptation: 175th Anniversary Celebration.

Robert Lee, Ph.D., assistant dean for minority student affairs at the School of Medicine, was one of 14 volunteers in the St. Louis Public Schools' Partnership Program to receive national recognition for "exemplary practices of good public relations in support of education." He was among 110 winners nationwide to receive the Award of Honor from the National School Public Relations Association. He recently was featured in the School Partnership Program publications called Creative Link and Connections. In one article he is referred to as "the driving force behind Washington University's Medical School Partnership Program."

Robert J. Liddy, clinical assistant professor (part time) of behavioral science in the Department of Dental Education at the School of Dental Medicine, gave a talk on "Personal Therapy as a Tool for the Counselor" at the second annual workshop of the St. Louis Chapter of the National Association of Alcohol and Drug Abuse Counselors, held at the Clayton Inn. The workshop focused on professional therapy for substance abuse counselors as a means for the counselors to resolve their own personal conflicts and, in turn, to more effectively treat their clients.

Linda Lindsey, Ph.D., visiting assistant professor of sociology, has contributed a chapter, titled "Alternatives to Institutionalization," to the book *Therapeutics in the Elderly*.

Marshall S. Manne, D.D.S., professor (part time) of periodontics at the School of Dental Medicine, has been elected chairman of the Periodontal Specialty Section of the Missouri State Dental Board.

Robert H. McDowell, Ph.D., professor and chair of the Department of Mathematics, is serving as president of the Missouri Section of the Mathematical Association of America (MAA). He is helping to plan the spring meeting of the Missouri section, which will be held at Washington University. The MAA is the world's largest organization devoted to the interests of collegiate mathematics.

James G. Miller, Ph.D., professor of physics, recently gave an invited lecture, titled "Ultrasonic Characterization of Graphite-Epoxy Composites," at the fifth NASA Workshop on Non-Destructive Evaluation. The three-day meeting, held at the Kennedy Space Center, focused on methods for verifying safety and reliability.

Tom Polacek, a history major and the football Bears' all-time leading rusher, has been named a College Division GTE second team academic All-America by the College Sports Information Directors of America. A senior with a 3.39 grade point average, Polacek is the University's first football player selected to the prestigious academic team.

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. Please include a phone number.

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.

Was our solar system formed partly from the debris of defunct stars? An article in the Dec. 25, 1987, *Houston Post* says scientists made a discovery that strengthens this theory. Professors of physics Ernst Zinner, Ph.D., and Thomas Bernatowicz, Ph.D., discovered silicon carbide while analyzing fragments of the Murray meteorite, which fell in western Kentucky 38 years ago. Certain silicon carbide isotopes are not found naturally on earth. The substance probably was formed in several carbon-rich stars and scattered into space when the stars ejected their outer layers at least 4.5 billion years ago before the earth's

Faculty receive tenure

The following is a list of faculty who have been granted tenure, appointed with tenure or promoted with tenure on the Hilltop and Medical School campuses.

School of Engineering and Applied Science Granting of tenure

Bijoy K. Ghosh, as associate professor of systems science and mathematics, effective Dec. 4, 1987;

School of Medicine Appointment with tenure

Joel D. Cooper, as professor of surgery (cardiothoracic surgery), effective July 1, 1988;

Promotion with tenure

J. Paul Heiken, to associate professor of radiology, effective Jan. 1, 1988;
Thomas L. Spray, to associate professor of surgery (cardiothoracic surgery), effective Jan. 1, 1988.

First Varney Prize in physics

Philip N. Sabes, a junior in the College of Arts and Sciences, received the first Varney Prize as the best student in introductory physics.

The new prize, to be awarded each year, honors Robert N. Varney, Ph.D., a former physics faculty member. A fund was established in Varney's name by friends and students for "his deep concern for the introductory courses."

A physics and French major, Sabes worked in the physics department's cosmic ray research group and now is working with Kenneth F. Kelton, Ph.D., associate professor of physics.

Varney joined the University's physics department in 1938 as an assistant professor. He served as a Naval commander during World War II and returned to the University in 1946 to continue his research into the properties of gaseous ions. He left the University in 1964 to take a position at Lockheed Palo Alto Research Laboratories and retired from there in 1975.

In addition to supervising the research of many graduate students at Washington, Varney was interested in undergraduate physics education. He developed course notes that were used for many years in Physics 211-212 (Engineering Physics) and later incorporated into the present Physics 117-118.

solar system was formed. Similar stories appeared in *The New York Times*, *Boston Globe*, *Denver Post*, *Miami Herald*, *Toronto Star*, and *International Herald Tribune*.

Extreme noise in the Metrodome may be responsible for the St. Louis baseball Cardinals' loss to Minnesota in the World Series, says an article in the Dec. 24, 1987, issue of *USA Today* regarding the work of William Clark, Ph.D., research associate in otolaryngology. Clark's study revealed that average sound levels in the Metrodome were more than twice as loud as in Busch Stadium — and equivalent to a 3 1/2-hour heavy-metal rock concert. "The effect of loud noise on motor skills is generally small, but a person not acclimated will perform more poorly than someone who is used to it. The effect is probably magnified in a highly trained athlete."

CALENDAR

Feb. 4-13

LECTURES

Thursday, Feb. 4

1:10 p.m. George Warren Brown School of Social Work Colloquium, "Quality: Measuring the Unmeasurable in Health Care and Social Services," Ted Grazman, executive director of the St. Louis Association for Retarded Citizens. Brown Hall Lounge.

4 p.m. Dept. of Anthropology Colloquium, "The Treasure Pit of Guangan and the Ancient Civilization of Southwest China," Tong Enzheng, visiting lecturer at U. of Michigan. 101 McMillan.

4 p.m. Dept. of Earth and Planetary Sciences Seminar, "Origin and Migration of Fluids in Sedimentary Basins: Hydrologic and Geochemical Constraints," Jeffrey S. Hanor, Louisiana State U. 102 Wilson.

4 p.m. Dept. of Chemical Engineering Seminar, "The Behavior of Immobilized Living Cells: Characterization Using Isotopic Tracers," Channing Robertson, prof. of chemical engineering at Stanford U. 100 Cupples II.

4 p.m. Dept. of Chemistry Seminar, "The Carbon Dioxide Chemistry and Photochemistry of Binuclear Transition Metal Complexes," Cliff Kubiak, prof. of chemistry at Purdue U. 311 McMillan.

4 p.m. Dept. of Sociology Colloquium, "Capital and Entrepreneurship: The Emergence of Jewish Credit Networks in the United States," Shelly Tennenbaum, asst. prof. of sociology, Clark U. 219 McMillan.

Friday, Feb. 5

6 and 8:30 p.m. WU Association Film Travel Lecture Series, "Bermuda: Gem of the Atlantic," Thomas Sterling, filmmaker. Graham Chapel. For ticket info., call 889-5122.

6:15 p.m. Hillel Foundation Graduate Student Shabbat, "Abortion: Two Jewish Perspectives," Rabbi Sholom Rivkin, chief rabbi, Vaad Hoer of St. Louis, and Rabbi Eric Bram, of Temple Israel. Admission fee is \$5. Prepaid reservations required by Wed., Feb. 3. Call 726-6177 for location.

Saturday, Feb. 6

11 a.m. University College Saturday Seminar, "The Importance of Being Engage: Sartre and Beauvoir," Michel Rybalka, WU prof. of French. Women's Bldg. Lounge.

Monday, Feb. 8

4 p.m. Dept. of Sociology Colloquium, "Contemporary Communism and the Attempts at Its Reformation," Svetozar Stojanovic, WU visiting professor of sociology. 300 Eliot.

8 p.m. School of Architecture Lecture Series with William Morgan, architect, discussing his work. Steinberg Aud.

Wednesday, Feb. 10



Henry Hampton

11 a.m. Assembly Series Lecture with Henry Hampton, producer of the public television series "Eyes on the Prize: America's Civil Rights Years, 1954-1965." Graham Chapel.

3 p.m. "Anatomy of a Civil Lawsuit" Judicial Lecture/Demonstration Series, "Closing Arguments, Post-Trial Motions and Appeal," led by Judge Jean Hamilton of the St. Louis City Circuit Court. The series, sponsored by the WU Clinical Education Program, will be held in the Mudd Hall Courtroom (Room 316).

Thursday, Feb. 11

1:10 p.m. George Warren Brown School of Social Work Colloquium, "The Androgynous Black Parent: One Answer to the Single Parent

Dilemma," Rosetta Taylor Moore, asst. director, student education services center, St. Louis U. Brown Hall Lounge.

4 p.m. Dept. of Anthropology Lecture, "Ethiopian Jews: Integration and Interaction with Israeli Society," Ulysses Santamaria, Centre Nationale de Recherche Scientifique, Paris, France. 101 McMillan.

Friday, Feb. 12

2 p.m. Dept. of Sociology Colloquium, "The Mathematical Proof as a Durkheimian Social Object," Eric Livingston. 219 McMillan.

Saturday, Feb. 13

11 a.m.-12:30 p.m. University College Saturday Seminar, "The Ideological Novel," Barbara Salert, WU assoc. prof. of political science. Women's Bldg. Lounge.

MUSIC

Thursday, Feb. 4

8 p.m. Dept. of Music Baroque and Harpsichord Recital with Sandra Miller, flute, and Marryse Carlin, harpsichord. Also sponsored by the St. Louis Flute Society and the St. Louis Conservatory Early Music Program. Steinberg Aud.

Sunday, Feb. 7

7:30 p.m. University City Symphony Orchestra Concert. Also sponsored by the Dept. of Music. Graham Chapel.

EXHIBITIONS

"High School Art Competition." Through Feb. 14. Bixby Gallery, Bixby Hall. 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4643.

"Six Centuries of Notable Books: Highlights From Special Collections of Washington University." Through March 31. Olin Library, Special Collections, level 5. 8:30 a.m.-5 p.m. weekdays.

"Permanent Collection." Through June 6. Gallery of Art, lower level. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Faculty Show," works by WU faculty. Gallery of Art, upper galleries. Through Feb. 7. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

"Drawings by Sculptors," featuring drawings by WU students. Through March 10. Sponsored by School of Fine Arts and B'nai B'rith Hillel Foundation. Hillel House, 6300 Forsyth Blvd. 9:30 a.m.-4:30 p.m. weekdays. For more info., call 889-6581 or 726-6177.

FILMS

Thursday, Feb. 4

6:30 and 9:30 p.m. WU Filmboard Series, "Das Boot." \$2. Brown Hall.

Friday, Feb. 5

7 and 9:30 p.m. WU Filmboard Series, "Platoon." \$2. Brown Hall. (Also Sat., Feb. 6, same times, and Sun., Feb. 7, at 7 p.m., Brown.)
Midnight. WU Filmboard Series, "Mad Max." \$2. Brown Hall. (Also Sat., Feb. 6, same time, and Sun., Feb. 7, at 9:30 p.m., Brown.)

Sunday, Feb. 7

2 p.m. Japanese Film Series, "Rashomon." Free. Steinberg Aud.

Monday, Feb. 8

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

Wednesday, Feb. 10

7 and 9 p.m. WU Filmboard Series, "The Virgin Spring." \$2. Brown Hall. (Also Thurs., Feb. 11, same times, Brown.)

Friday, Feb. 12

8 and 10 p.m. WU Filmboard Series, "Lady and the Tramp." \$2. Brown Hall. (Also Sat., Feb. 13, same times, and Sun., Feb. 14, at 2 p.m., Brown.)
Midnight. WU Filmboard Series, "Harold and Maude." \$2. Brown Hall. (Also Sat., Feb. 13, same time, and Sun., Feb. 14, at 4 p.m., Brown.) Both the feature and midnight films can be seen for a double feature price of \$3.

SPORTS

Saturday, Feb. 6

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

Friday, Feb. 12

7 p.m. Women's Basketball, WU vs. U. of Chicago. Field House.

Saturday, Feb. 13

3 p.m. Women's Basketball, WU vs. DePauw U. Field House.

MISCELLANY

Thursday, Feb. 4

11 a.m. University College Short Course, "Portrait-of-the-Artist Fiction," Shirley Loui, WU lecturer in comparative literature. Course continues on Thursdays through March 3. Cost is \$75. To register, call 889-6788.

Saturday, Feb. 6

9:15 a.m. to 1 p.m. WU Dance Division of Performing Arts Dept. Offers Programs in creative dance for children and adolescents. The 10-session programs continue on Saturdays through April 23. For more info., call 889-5858.

Monday, Feb. 8

12:45 p.m. Society of Professors Emeriti

Introductions to new faculty

The Washington University Record features a series of profiles of new faculty who arrived on the Hilltop, Medical School and Dental School campuses last semester. The faculty introductions appear weekly in alphabetical order.

Barry E. Spielman, Ph.D., chairman of the Department of Electrical Engineering and professor of electrical engineering, comes to Washington University from Washington, D.C., where he headed the Microwave Technology Branch of the Naval Research Laboratory. He earned a doctorate in electrical engineering in 1971 from Syracuse University, a master's degree in electrical engineering in 1967 from Pennsylvania State University and a bachelor's degree in electrical engineering in 1964 from Illinois Institute of Technology.

Klaus Jurgen Staisch, M.D., associate professor of obstetrics and gynecology, previously was an associate professor at the University of Minnesota School of Medicine in Minneapolis and director of the Obstetrics and Maternal-Fetal Medicine Program at Hennepin County Medical Center. He also was medical director of perinatal services at Metropolitan Medical Center in Minneapolis. He received his medical degree in 1966 from the Free University of Berlin, Germany. His research involves the use of diagnostic ultrasound for detection of structural congenital anomalies of the fetus in utero as well as computer management for clinical complications during pregnancy.

Stephen J. Stedman, instructor in political science, comes to Washington from the Center for International Studies at the University of Southern California-Los Angeles. He is in a doctoral program in political science at Stanford University. He earned a master's degree in political science in 1985 and a bachelor's degree in sociology and political science, with honors, in 1979, both from Stanford. His research interests include U.S.-Soviet competition in the Third World and politics of Southern Africa and Eastern Europe.

Mark P. Strasser, Ph.D., assistant

Luncheon. Joe F. Evans, WU associate vice chancellor for business affairs, will discuss the master plan for the WU Hilltop campus. Whittemore House, 6440 Forsyth Blvd. For more info., call R.E. Shank, 821-5054.

Tuesday, Feb. 9

1-2:30 p.m. University College Short Course, "English Words: Origins and Histories," George M. Pepe, WU assoc. prof. of classics. Course continues on Tuesdays through March 1. Cost is \$60. To register, call 889-6788.

Saturday, Feb. 13

9 a.m.-noon. University College Workshop, "Search and Research Skills: Preparing to Write Papers," Mary Seager, Dept. of Reading, St. Louis Community College at Florissant Valley. Fee is \$20. To register, call 889-6788.

Calendar Deadline

The deadline to submit items for the Feb. 18-27 calendar of the Washington University Record is Feb. 4. 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. Address items to King McElroy, calendar editor, Box 1070.

professor of philosophy, comes to Washington from the University of Texas-Arlington, where he was an assistant professor of philosophy. He earned a doctorate in philosophy in 1984 and a master's degree in philosophy in 1980, both from the University of Chicago, and a bachelor's degree in philosophy in 1977 from Harvard University. His research interests include ethics, biomedical ethics and social and political philosophy.

Blinks — *continued from p. 1*

a traffic light, waiting for the light to change, you will inhibit your blinks. If you must blink, the closure time will be short.

A blink also varies according to the importance of an event, Stern says. To routinely check your speed, you blink as you shift your eyes to the speedometer and blink again as you register the information. But if a police car is behind you, you do not blink as you turn your eyes to the speedometer. You blink as you routinely shift your eyes to the rear view mirror, but if you are changing lanes and want to check the rear view, you don't blink.

In other words, "when information acquisition is important, you actively inhibit your blinking," Stern says. "You blink when you are not processing information."

When driving gets dull, you may lapse into micro sleep, periods where your attention lapses and your eyes are closed longer than an average blink. Stern says, "There are times when you suddenly wonder, 'How did I get here?' You have probably been engaged in micro sleep. Accidents occur when unusual events occur with periods of micro sleep."

So back to the future and Stern's dream: "I want a light on the top of every car and truck that will indicate when a driver is not performing safely," he says. "I don't want to interfere with the driver's rights to kill themselves, but I hate to see innocent bystanders killed by drivers who should not be driving."

Regina Engelken