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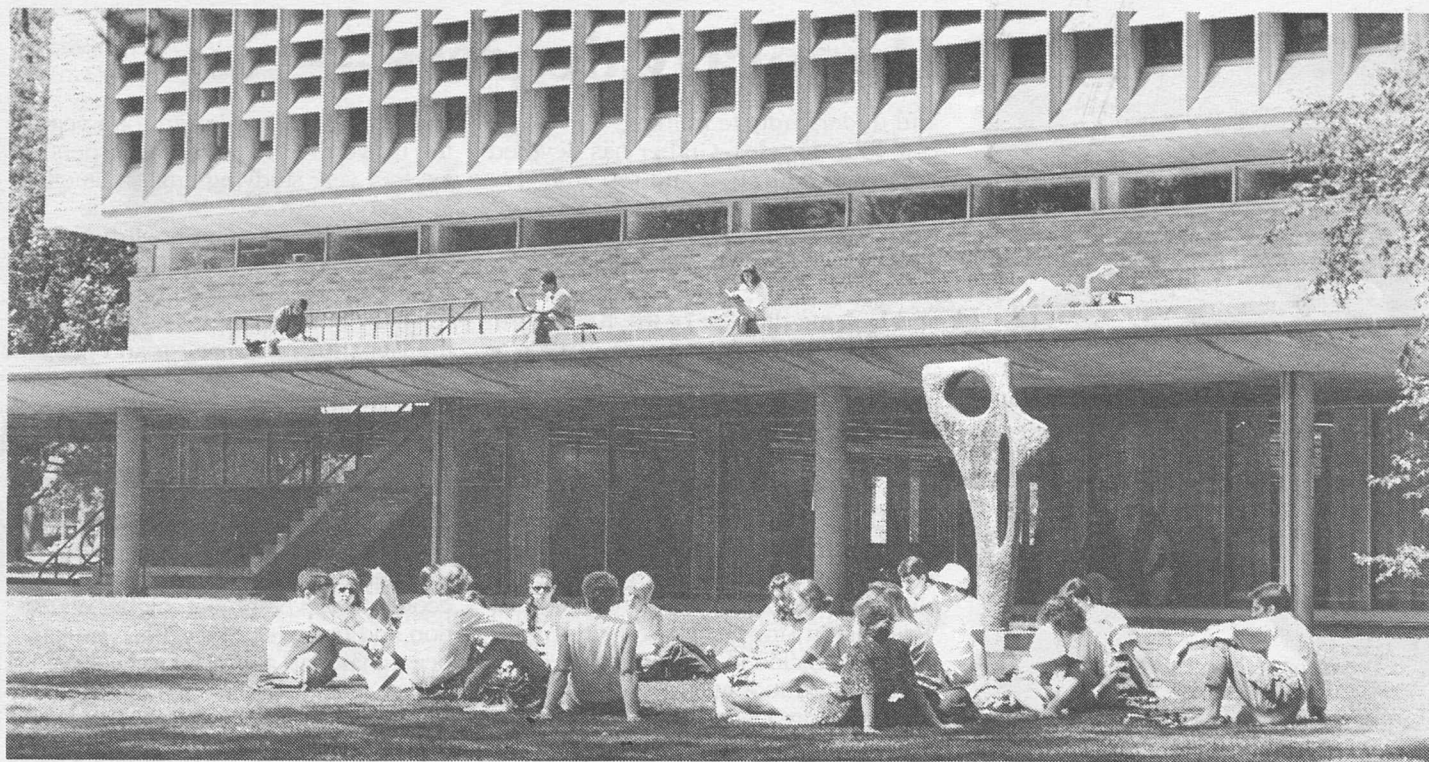
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RECORD

Washington
WASHINGTON UNIVERSITY IN ST. LOUIS

Vol. 15 No. 31/May 9, 1991



Advantage point: Mild spring days bring classes outside and students to Olin Library's deck.

Commencement countdown

Speaker Arias, seven others will receive honorary degrees

Oscar Arias Sánchez, J.D., Ph.D., the 1987 recipient of the Nobel Peace Prize and former president of Costa Rica, will deliver Washington University's 130th Commencement address on May 17. Commencement begins at 8:30 a.m. with the traditional academic procession to Brookings Quadrangle.

There are 2,581 degree candidates. Of those, 1,368 are undergraduate students and 1,213 graduate students.

The University also will bestow eight honorary degrees during the Commencement ceremony, including a doctor of laws to Arias. The other honorary degree recipients are: Purnell W. Choppin, M.D., president of the Howard Hughes Medical Institute, doctor of science; renowned economist Ronald H. Coase, Ph.D., doctor of laws; T. M. Graber, D.D.S., Ph.D., an educator, researcher and practicing orthodontist, doctor of science; baseball legend Stan Musial, doctor of laws; former U.S. poet laureate Howard S. Nemerov, doctor of letters; author and poetry critic Helen H. Vendler, Ph.D., doctor of letters; and Clifton R. Wharton Jr., Ph.D., chairman and chief executive officer of the Teachers Insurance and Annuity Association — College Retirement Equities Fund, doctor of laws.

Arias, author of the 1987 Central American Peace Plan and a former university professor, was presented the Nobel Peace Prize for his "outstanding contribution to the possible return of stability and peace to a region long torn by strife and civil war," according to the Norwegian Nobel Committee.

The peace plan was signed in August 1987 by Arias and the presidents of El Salvador, Guatemala, Honduras and Nicaragua. In creating the plan, Arias "was motivated by the conviction that Central American people must stop killing each other," he said in a February 1990 interview with The Washington Post.

Aimed mainly at Nicaragua, the peace plan prompted the U.S. Congress to halt military aid to the Contras in February 1988. By 1990, when Arias was succeeded by conservative lawyer Rafael Calderon, the plan had spurred other Nicaraguan developments. Daniel Ortega stepped down as Nicaragua's president after his Sandinista Party, which seized power by force of arms in 1979, lost a national election. The anti-Sandinista rebels, backed by the United States,

turned in their rifles to United Nations peacekeeping troops in compliance with a final peace accord.

Arias also is credited with bringing warring parties in El Salvador to the peace table and launching a tradition of regional summit meetings to defuse military tensions.

Purnell W. Choppin, who served as an intern and resident in internal medicine at the Washington University School of Medicine in the 1950s, built a highly successful career as an investigator, administrator, teacher and physician, ultimately reaching his current position as president of the Howard Hughes Medical Institute (HHMI) in 1987. Choppin discovered how certain viruses, particularly influenza and measles viruses, penetrate cells, attack the body's defense mechanisms and multiply. His research opened up a new field of drug therapy.

Choppin came to HHMI from The Rockefeller Institute (now University), where, for nearly 30 years, he held a number of positions, including vice president of academic programs, dean of graduate studies and Leon Hess Professor of Virology, heading a laboratory that continues to concentrate on his initial discoveries. As an undergrad, he attended Louisiana State University in Baton Rouge and received a medical degree in 1953 from the university's medical school in New Orleans.

Ronald H. Coase, the Clifton R. Musser Professor Emeritus of Economics and Senior Fellow in Law and Economics at the University of Chicago, has been hailed by some as the most important economist of the 20th century. His article "The Problem of Social Cost," out of which arose the Coase Theorem, is thought to be the single most frequently-cited article in all of economics literature. Several major fields of economic research, including law and economics, transactions cost and institutional economics, developed out of this one article.

Born in England, Coase first came to the United States in 1931 as the Sir Ernest Cassel Travelling Scholar of the University of London while still an undergraduate at the university. The research he did during that time became the basis for a lecture and a published article, "The Theory of the Firm," which is one of the most frequently cited in economics literature. Coase, who has been at the University of Chicago since 1964, received a doctorate in economics from the University of London in 1951.

T. M. Graber, author of more than 15 books and 750 articles, is considered one of the most widely published orthodontists in the world today. His published work includes standard textbooks for both graduate

Continued on p. 2

Seniors have a ball cruising through last week here

Across the campus, seniors are sweating over finals and pondering such major issues as attending graduate school or looking for a job.

But during Commencement Week, May 11-17, seniors will put aside their real-world concerns as they take a rafting trip along the Meramec River, dance the night away at a ball, and sip champagne at Wohl Center, among other activities.

Commencement Week is a transition period for seniors, says Rob Skinner, senior class president, who organized the week's activities along with the three other class officers. "The students won't feel nostalgic about leaving friends and the University until finals are over," he says. "When they have completed their coursework, they can reflect on leaving. Commencement Week prepares them for graduation."

The theme for the week is "New World, New Challenges." The motto, a

quote from former President John F. Kennedy, is: "For the problems are not all solved and the battles are not all won — and we stand on the edge of a new frontier."

Among the events planned are Senior Night at Busch Stadium and Laclede's Landing May 13, a cruise along the Mississippi River aboard the Belle of St. Louis riverboat May 14 and a Commencement Ball at the Adam's Mark Hotel May 16.

Seniors have been registering for Commencement events in record numbers, says Skinner, adding that the ball is a new event. Organizers modeled the ball after similar ones at other universities. It is a great way for seniors, families and the entire University community to get together, he says.

Skinner says the riverboat cruise aboard the Belle of St. Louis will allow seniors to reflect on their freshman experience when they took the same trip

Top engineering honor goes to Charles M. Wolfe

Charles M. Wolfe, Ph.D., a professor of electrical engineering, has been elected a member of the National Academy of Engineering, one of the highest honors an engineer can receive.

Wolfe is one of 77 American engineers and seven foreign engineers to be elected in 1991. Total U.S. membership is 1,580, and the total number of foreign associates is 132.

The National Academy of Engineering, a private organization, along with the National Academy of Sciences, advises the federal government on questions of science and technology. The two organizations work through the National Research Council.

Wolfe was elected in recognition of his pioneering work in semiconductors, materials such as silicon and gallium

arsenide that are major components of devices ranging from computers to televisions to watches and other electronic commodities. He was honored specifically for his work in developing and purifying gallium arsenide compounds for their use in high-speed analog and digital integrated circuits for a variety of electronic applications.



Charles M. Wolfe

"We are most pleased that Professor Wolfe's pioneering work in semiconductor materials is being recognized through his election to the National Academy of Engineering," said James M. McKelvey, Ph.D., dean of the School of Engineering and Applied Science. "It is a tribute to his scientific accomplishments and an honor to his institution."

Only two other Washington University engineers have been elected to the National Academy of Engineering: Ted Galambos, Ph.D., professor of civil engineering now at the University of Minnesota, and John Zaborsky, Ph.D., professor emeritus of systems science and mathematics.

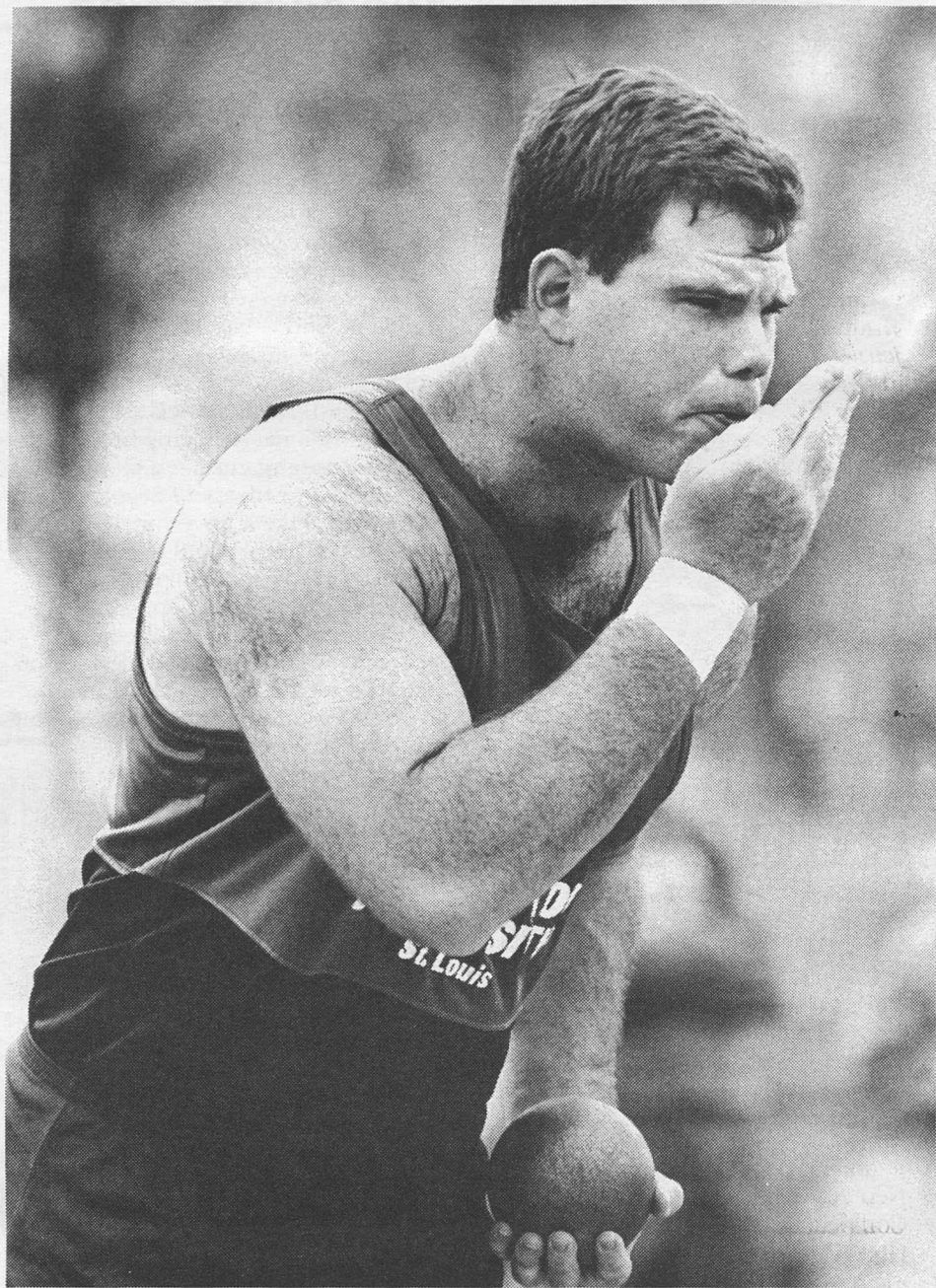
Wolfe received his bachelor's and master's degrees in electrical engineering from West Virginia University and his doctorate in electrical engineering from the University of Illinois in 1965. Before coming to the University in 1975, he was a staff member of MIT Lincoln Laboratory. He is the author of 90 refereed publications and is editor and co-author of two books. He is working on another book, *Statistical Physics and Optimization*.

aboard The President, which has since left St. Louis, as part of freshmen orientation. The senior cruise "is a great way to wrap things up in St. Louis," says Skinner. "It gives the seniors a sense of completion — they're able to get together with the class one more time."

Karen Hermann, secretary of the senior class, said she is proud of her peers and some of the projects they have accomplished. For several weekends during this academic year, she notes, a group of seniors as part of a class project have helped Adequate Housing for America renovate houses in St. Louis. "The seniors have been involved in different activities that show they are socially aware," she says.

The two other senior class officers are Sam Hananel, vice president, and Michelle Drzewicki, treasurer.

For more information, see calendar on page 4 or call Student Union at 889-5909.



Senior Allen Glenn, Washington University's most acclaimed track and field thrower, has captured seven individual University Athletic Association titles. Glenn and volleyball player Kathy Bersett, a senior, are the 1990-91 recipients of the University's "W" Club Distinguished Athlete of the Year Awards.

Track and field team captures UAA titles; five members head to NCAA finals

For the fourth time in the four-year history of the University Athletic Association, the men's track and field team has followed its indoor conference championship by capturing the outdoor crown as well.

Washington's eighth title in eight tries was its closest on record, however, as the Bears nosed out the University of Rochester by a 162-155 margin. In the women's competition, the Red and Green improved upon its fifth-place indoor showing by taking fourth at the outdoor championships, which was held in frigid and rainy conditions in Rochester, N.Y.

Seven members of the Bears participated on all eight UAA championships teams: Dave Smith, Ron Champagne, Allen Glenn, Tim Walker, Dave Watkins, Tim Jackson, and Todd Reimann. Those seven earned 34 individual conference titles, 23 second-place finishes, and 15 third-place showings, and combined to set eight current UAA records. Smith won four straight titles in the indoor triple jump, and also earned an individual championship at all eight UAA meets. Champagne won four straight crowns in the outdoor 400-meter hurdles.

As the outdoor season winds to a close, five Bears have qualified for the 1991 NCAA Division III Championships, which will be held May 22-25 at Baldwin-Wallace College in Berea, Ohio. Glenn and Walker have earned their tickets in the hammer throw and the shot put, Watkins will participate in the 10,000-meter run, junior Robert Lindsey will run the 800-meters, and junior DP Rajhansa has qualified in the 110-meter hurdles. Junior Marc Bader will compete at a "last chance" meet

next weekend in an effort to reach the national standard in the pole vault.

Glenn, recently named the "W" Club's Distinguished Athlete of the Year for 1990-91, was the only Bear to participate at the NCAA indoor championships, held March 8-9 at Wesleyan University in Middletown, Conn. Glenn placed seventh in the shot put and 12th in the 35-lb. weight toss. He is a 12-time all-UAA performer, including seven individual titles.

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Honorary degrees — continued from p. 1

and undergraduate training. For the past four decades, Graber has devoted himself to education and research. While teaching orthodontics at Northwestern University, he co-founded its Cleft Lip and Palate Institute in 1947. Later, he co-founded and became director of the Kenilworth Dental Research Foundation in 1964, a position he still holds today. As a professor at the University of Chicago from 1967 to 1982, he founded the orthodontic section of the Pritzker School of Medicine.

Today, he continues to maintain a private orthodontic practice and serve as visiting professor at the University of Michigan. Graber earned a degree from Washington University's School of Dental Medicine in 1940, a master's degree in orthodontics from Northwestern University Dental School in 1946 and a doctorate in anatomy from Northwestern's Medical School in 1950.

Stanley F. Musial, affectionately known as "Stan The Man," was star of the St. Louis Baseball Cardinals for 22 seasons. He won seven National League hitting championships, hitting over .300 his first 16 seasons in the major leagues and ending up with a career average of .331. He was selected National League Player of the Year three times and The Sporting News' Major League Player of the Year twice. Sports Illustrated named him its Sportsman of the Year in 1957 and The Sporting News honored him as Player of the Decade for 1946-1956.

Musial retired in 1963 and was inducted into baseball's Hall of Fame in 1969. He still holds almost all National League records for durability and consistency. He has served as senior vice president of the St. Louis Baseball Cardinals and president and chairman of the St. Louis Steamers. President Lyndon B. Johnson appointed him to head the U.S. Council on Physical Fitness. He now devotes most of his time to charities.

Howard Nemerov, Washington University's Edward Mallinckrodt Distinguished University Professor Emeritus of English, is considered one of the greatest literary presences in the United States. He was appointed the country's third poet laureate in 1988, a position he held for two years. A Chancellor of the Academy of American Poets, Nemerov is author of 26 books, including 11 volumes of poetry. One of his volumes, *The Collected Poems of Howard Nemerov* (1978), won both a National Book Award and a Pulitzer Prize. In addition to poetry, Nemerov has written novels, short stories and criticism.

Nemerov, who received his bachelor's degree in 1941 from Harvard, joined Washington's faculty in 1969 as Fanny Hurst Visiting Professor of English. Among his numerous honors, he was one of 11 people awarded the National Medal of the Arts in 1987 by President Ronald Reagan during a White House ceremony.

Helen Vendler is widely regarded as one of America's leading critics of poetry. Since the 1960s, Vendler has contributed several hundred pieces, including articles, review-essays, and reviews to numerous literary publications, most notably The New York Times Book Review and The New Yorker, where she has served as poetry critic since 1978. She is the author of seven books, including *Part of Nature, Part of Us: Modern American Poets*, which was the unanimous choice for the 1980 National Book Critics Circle Award in criticism.

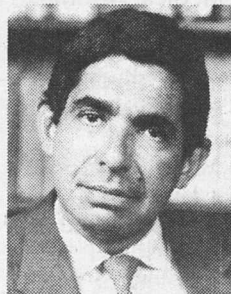
A Phi Beta Kappa, she graduated summa cum laude with a bachelor's degree in chemistry from Emmanuel College in 1954. After graduation she

studied French and Italian for a year at the University of Louvain and spent another year studying English literature at Boston University. In 1960 she received a doctorate in English and American literature from Harvard University, where she currently is the A. Kingsley Porter University Professor in the Department of English and placement program director for Ph.D. students in the department. Vendler also is Harvard's associate dean for academic affairs. She was Washington University's Fanny Hurst Visiting Professor of English Literature in 1975.

Clifton R. Wharton Jr. has excelled in three careers: foreign economic development, higher education and business. Since 1987, he has been chairman and chief executive officer of the Teachers Insurance and Annuity Association — College Retirement Equities Fund (TIAA-CREF), which is the largest pension fund in the world and the fifth largest U.S. insurance company.

His career began as a foundation official helping developing nations in Latin America and Asia, particularly in agriculture. He served as president of Michigan State University from 1970-78. He then was appointed chancellor of the State University of New York, one of the country's largest university systems, where he remained until 1987.

Wharton entered Harvard at the age of 16 and graduated cum laude in 1947 with a bachelor's degree in history. He received a master's degree in international affairs in 1948 from the Johns Hopkins University School of Advanced International Studies and his doctorate in 1958 from the University of Chicago. In a recent national survey of more than 500 presidents of public colleges and universities, Wharton was named one of the five most influential leaders in the country.



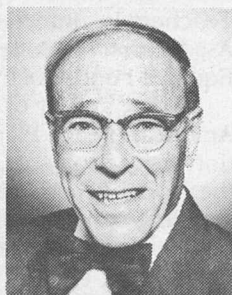
Oscar Arias Sánchez



Purnell W. Choppin



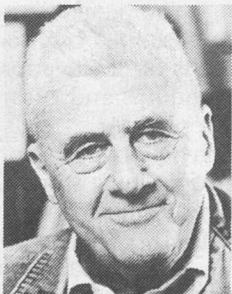
Ronald H. Coase



T. M. Graber



Stanley F. Musial



Howard S. Nemerov



Helen H. Vendler



Clifton R. Wharton Jr.

NOTABLES

James Bailey, a doctoral candidate in psychology, has been named winner of the Dean's Award for Teaching Excellence for 1990-91. He has accepted a professorship of organizational behavior at Rutgers University's Graduate School of Management. In August, he will present a paper titled "Individual and Situational Determinants of Decision Making" at the 98th meeting of the American Psychological Association in San Francisco. This paper, derived from his dissertation, also has been accepted for publication in the Society for Consumer Psychology journal.

William H. Gass, Ph.D., David May Distinguished University Professor in the Humanities and director of the International Writers Center, delivered a slide lecture titled "Architecture and the Still Life of Things" at the annual meeting of the Association of Collegiate Schools of Architecture held in Washington, D.C.

Luiz Eduardo Guimaraes, a senior majoring in mathematics and engineering and public policy, attended the 17th Third World Conference in Detroit. During the discussion panel on sustainable development in Third World nations, he presented a paper titled "A Macroassessment of the Amazonian Underdevelopment: Can the Trend Be Reversed?"

James O. Hepner, Ph.D., professor and director of the Health Administration Program of the School of Medicine, was the 1991 winner of the Health Administration Program alumni association's Distinguished Alumnus Award. He is chair of the American College of Healthcare Executives.

George Johnson, Ph.D., professor of biology, attended a meeting of the International Union of Biological Sciences held in Washington, D.C., and a committee meeting of the National Academy of Sciences, also held in Washington. He has just published the second edition of his textbook, *Understanding Biology*, co-authored with **Peter Raven**, Ph.D., Engelmann Professor of Botany and director of the Missouri Botanical Garden. Johnson is working on a textbook on environmental biology, a subject on which he will teach a course at the 100-level for non-majors next year. Johnson also serves as exhibit consultant for the Anheuser-Busch Sea World.

Dana Klar, J.D., director of the Center for American Indian Studies in the School of Social Work, presented a paper titled "Achievement Through Education: A Model Graduate Center for Minority Studies: The Center for American Indian Studies," at The American Indian Institute's American Indians and Education in the 21st Century Conference in San Francisco.

Marilyn Krukowski, Ph.D., professor of biology, was an invited participant at The Bone Biomaterials Interface Workshop held in Toronto, Canada, where she discussed her recent findings concerning generation of bone and connective tissue in response to

charged particles. Proceedings of the meeting will be published by the University of Toronto Press. An article describing her findings has been published in the Research Resources Reporter, a U.S. Department of Health and Human Services publication.

Daniel R. Mandelker, J.S.D., Howard A. Stamper Professor of Law, has been appointed to an American Planning Association task force assigned to create a draft replacements program for the Standard Planning and Zoning Acts. First proposed in 1926, the acts have been the basis of state planning and zoning legislation. Mandelker also has been appointed to the Legal Resources Group Council of the Transportation Research Board. The council advises the board on matters pertaining to the board's research program.

Paul L. Molina, M.D., assistant professor of radiology at the Mallinckrodt Institute of Radiology, lectured on "Pitfalls in CT of the Thorax" as a visiting professor at the University of North Carolina at Chapel Hill.

Hiroaki Mukai, Ph.D., professor of engineering and applied science in the Department of Systems Science and Mathematics, and **John I. Hochstein**, Ph.D., professor of mechanical engineering, have been selected by the engineering senior class as the 1990-91 Professors of the Year. The awards were presented at the Engineers' Honors Banquet held at the Engineers' Club of St. Louis. The Honors Banquet, which is sponsored by the School of Engineering and Applied Science and the Engineers' Council, annually recognizes outstanding students and faculty within the School of Engineering and Applied Science.

Julio E. Pérez, M.D., associate professor of medicine and director of echocardiography at Barnes Hospital, recently presented invited lectures on clinical applications of ultrasonic characterization of myocardium. The lectures were given at the Mid-America Heart Institute-St. Luke's Hospital in Kansas City, Indiana University in Indianapolis, the University of Chicago, Harvard Medical School-Massachusetts General Hospital, the University of Alabama at Birmingham, the University of Illinois at Chicago and Hannepin County Hospital in Minneapolis. He also served as abstract reviewer for the scientific sessions at the American Federation of Clinical Research, The American Heart Association and The American College of Cardiology.

Richard H. Popkin, Ph.D., professor emeritus of philosophy, conducted a one-day workshop at the Williams Andrews Clark Library in Los Angeles, where he spoke on "Spinoza as a Bible Scholar." He also organized and participated in the Inter-American Conference on Skepticism at the University of California, Riverside, which brought together 12 Latin American scholars and 12 North Americans whose work focuses on aspects of skeptical thought from ancient times to the present. His latest publications are *Essays in Newton's Theology* and *The Third Force in Seventeenth Century Thought*, a collection of essays and previously unpublished talks on the history of modern philosophy written in the last decade. *Skeptics, Millenarians, and Jews* are essays published in honor of Popkin.

Christine Ruane, Ph.D., assistant professor of history, will give a paper titled "Russian Peasants and Women Teachers: A Reconsideration," at the New Understandings of the Experience of Women Conference to be held this month in Moscow. The conference is sponsored by the Soviet

Women's Committee. During the 1991-92 academic year, Ruane will be in residence at the Russian Research Center at Harvard University where she will research her next project, a history of the Russian and Soviet fashion industry.

Michel Rybalka, Ph.D., professor of French, recently co-edited a 570-page volume of Jean-Paul Sartre's early writings. The volume, titled *Ecrits de jeunesse*, was published by Gallimard in Paris and has been reprinted and extensively reviewed in the French press. Rybalka also gave a memorial lecture in honor of Professor Jean Carduner at the University of Michigan in Ann Arbor and lectured at the Cranbrook Institute of Art in Detroit. He was an invited speaker at the national congress of the Brazilian Association of Professors of French at Florianopolis. He also chaired a session on "The Postmodern in Literature" and presented a paper on writer Jean-Philippe Toussaint at the Twentieth-Century French Colloquium in Austin, Texas.

Paul F. White, M.D., Ph.D., professor of anesthesiology, has been awarded an Honorary Fellowship in the Royal

Australasian College of Surgeons. He is a visiting professor of the Faculty of Anaesthetists in Australia and a guest lecturer at the 1991 General Scientific Meeting in Sydney May 5-16.

Robert Wiltenburg, Ph.D., adjunct associate professor of English and director of expository writing, delivered a paper titled "Against Anthologies: Reading Books in the Writing Course," at the National Council of Teachers of English conference on College Composition and Communication held in Boston. He also chaired the Milton session at the annual meeting of the Northeast Modern Language Association held in Hartford, Conn.

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.

Book collection winners announced

Daniel E. Curley, who is pursuing a master's degree in classics, and sophomore John H. Overholt, a political science major, are the first-place winners of the fourth annual Carl Neureuther Student Book Collection Competition sponsored by the Olin Library System. The students won in the graduate and undergraduate categories, respectively, and received a first-place prize of \$750.

Curley's book collection is titled "A Burgeoning Library of Greco-Roman Mythology." Overholt's collection is titled "Dr. Who: 25 Years of the Unknown."

The second-place winner in the graduate category is Jennifer K. Mundale, a doctoral candidate in philosophy, for her collection titled "A Philosopher's Library." The undergraduate

ate second-place winner is senior Douglas A. Deden, a civil engineering major, for his collection titled "Fractal Geometry and Chaos Theory." Mundale and Deden each received \$500.

Chancellor William H. Danforth presented the checks to the winners during an April 17 ceremony. A total of 19 students, 13 graduate and 6 undergraduate, participated in the competition.

The late Carl Neureuther, a 1940 graduate of the University's business school, donated the funds in 1987 to support the annual student book collection contest to encourage and stimulate good reading by Washington students and to promote the building of personal libraries. The competition is part of a \$1 million commitment made by Neureuther to the libraries.

Olin Cup champs address environment

Robert Higley and John "Jake" Ring, first-year M.B.A. students, and Christopher Bullinger, Nicholas Bullinger and Dea Hoover, business freshmen, claimed first-place honors for their teams in the business school's 1991 John M. Olin Competition.

Olin Cup is an annual business school event in which student teams are judged on their ability to make a stand on a controversial issue. More than 20 teams competed in the 1991

competition, which focused on the role of business and economics in addressing environmental issues. Hoover and the Bullinger brothers won first place in the undergraduate division with a presentation that urged the initiation of curbside recycling programs for used motor oil. Higley and Ring claimed top honors at the M.B.A. level by presenting a case for hydrogen as an environmentally safe alternative automotive fuel.

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.

"President Bush appears less skeptical about the role of federal regulators in the American economy. He is willing to provide more resources — dollars and staffing — to these efforts than was Ronald Reagan. Indeed, he is on a growth trajectory that looks similar to budget trends from the Carter years," says Kenneth Chilton, associate director of the Center for the Study of American Business (CSAB), and Melinda E. Warren, publications manager/writer

for CSAB, in an article about returning to government regulation that appeared in a recent issue of *Nation's Business*.

"We're accidental intruders in the life cycle of plants," explains Walter H. Lewis, Ph.D., professor of biology, in an article about springtime allergies that appeared in the April 11 issue of *The New York Times*, and the April 15 issues of the *Raleigh News & Observer* and the *Lexington Herald-Leader*. "We all have to breathe, so we can't keep from inhaling airborne pollen," he says. The article describes how allergies are developed, how to reduce exposure, and outlines methods of obtaining temporary relief.

Observatory open

The Washington University Observatory will be open (weather permitting) on three nights during Commencement week between 8 and 10 p.m. on Wednesday, May 15, Thursday, May 16, and Friday, May 17. The observatory is located atop Crow Hall, with access through the south entrance of Crow Hall. For more information, call the observatory at 889-6276 or 6278.

CALENDAR

May 9-18

LECTURES

Thursday, May 9

4 p.m. Dept. of Pathology Seminar, "Multiple Endocrine Neoplasia Syndrome," Samuel Wells, WU Bixby Professor of Surgery and chair, Dept. of Surgery. Third Floor Aud., Children's Hospital, 400 S. Kingshighway Blvd.

Friday, May 10

8 a.m. Division of Endocrinology and Bone Metabolism Seminar, "Osteocalcin Gene Expression as a Model for Vitamin D Action," Wesley Pike, Dept. of Cell Biology and Pediatrics, Baylor College of Medicine. Stix Room, First Floor Steinberg, Jewish Hospital.

9:15-10:30 a.m. Pediatric Grand Rounds, "Child Sexual Abuse — Facts and Controversies," David Corwin, WU asst. prof. of psychiatry and director, Child Psychiatry Unit, Children's Hospital. Clopton Aud., 4950 Audubon Ave.

Noon. Dept. of Cell Biology and Physiology Seminar, "Structural Determinants of Normal and Abnormal Electrical Propagation in Myocardium," Jeff Saffitz, WU Depts. of Pathology and Internal Medicine. Room 423 McDonnell Medical Sciences Bldg.

Noon. Dept. of Physics Brown Bag Lunch Seminar, "Global Positioning System," Robert Walker, WU McDonnell Professor of Physics, and Clifford Will, prof., WU Dept. of Physics. Room 241 Compton Hall.

4 p.m. Molecular Microbiology Special Seminar, "Homologous Recombination in E. coli: From Myths to Mechanisms," Gerald R. Smith, Fred Hutchinson Cancer Research Center. Erlanger Aud., McDonnell Medical Bldg.

4 p.m. Program for Cancer Research in the Division of Hematology Oncology Seminar, "Characterization and Genetic Manipulation of the Most Primitive Hemopoietic Cells," R. Keith Humphries, The Terry Fox Laboratory, British Columbia. Room 8841 Clinical Sciences Bldg.

Saturday, May 11

9 a.m. Saturday Morning Neural Science Seminar, "Animal Models of Neurodegenerative Diseases: Mechanisms of Disease and Prospects for Neurotrophic Therapies," Donald L. Price, Alzheimer's Disease Research Center, Johns Hopkins U. Erlanger Aud., McDonnell Bldg.

Monday, May 13

1:30 p.m. Dept. of Pathology Special Seminar, "Virus-Induced Cellular Autoimmune Reactions in Experimental Encephalitis in the Rat," Uwe G. Liebert, Institute for Virology and Immunobiology, U. of Wurzburg, Germany. Seventh Floor Conference Room, 7738 Clinical Sciences Research Bldg.

4 p.m. Immunology Seminar Series, "Lymphocytes: Life, Death, Memory and Neoplasia," Stanley J. Korsmeyer, Depts. of Medicine and Molecular Microbiology, Howard Hughes Medical Institute. Third Floor Aud., Children's Hospital, 400 S. Kingshighway Blvd.

4 p.m. Dept. of Biology Seminar, "Bacterial Mercury Metabolism: From Molecules to Microcosms," Anne O. Summers, Dept. of Microbiology, U. of Georgia. Room 322 Rebstock Hall.

5:15 p.m. Mallinckrodt Institute of Radiology City-wide Radiology Conference, "Intravascular Stents," Gary Becker, director of interventional radiology, Miami Vascular Institute/Baptist Hospital, Florida. Mallinckrodt Institute, Scarpellino Aud. For more info., call 362-7130.

Tuesday, May 14

2:30 p.m. Dept. of Mechanical Engineering Colloquium, "A Finite Element Model of the Electrical Activation of the Heart," Peter J. Hunter, assoc. prof., Dept. of Engineering Science, U. of Auckland, Australia. Room 100 Cupples II. For more info., call 889-6047.

5 p.m. Division of Biology and Biomedical Sciences Seminar, "The Impact of Animal Activism Movement in St. Louis on Biomedical Research," Theodore Cicero, WU director of animal affairs. Cori Aud., 660 S. Euclid Ave.

Wednesday, May 15

12:30 p.m. Neuroscience Luncheon Seminar, "Laser Tweezers: Force Measurements and Micromanipulation, or How to Move Without Touching," Scott Kuo, Dept. of Cell Biology, Duke U. Room 928 McDonnell Bldg.

4 p.m. Biochemistry and Molecular Biophysics Seminar, "Protein Structures and Profiles," David Eisenberg, Dept. of Chemistry, UCLA. Erlanger Aud., McDonnell Bldg.

Thursday, May 16

10 a.m. Neural Sciences Program Thesis Defense, "Calcium Currents in Rat Sensory Neurons and Their Modulation by Mu Opioids," Jean Schroeder. Room 928 McDonnell Bldg.

Noon. Dept. of Genetics Seminar, "DNA Binding and Unwinding by the E. coli Reb Helicase," Tim Lohman, WU Dept. of Biochemistry and Molecular Biophysics. Room 816 McDonnell Bldg.



Beginnings: Michael Holmes, a freshman in the School of Fine Arts, puts finishing touches on his 3-D sculpture for the "Core Exhibition" in Bixby Gallery, Bixby Hall. The exhibit, which features the work of freshmen and sophomores, runs through May 19.

4 p.m. Dept. of Pathology Seminar Series, "Integrin Adhesive Protein Receptors: Expression in Normal and Neoplastic Tissues," Mary Zutter, WU Dept. of Pathology. Third Floor Aud., Children's Hospital, 400 S. Kingshighway.

4 p.m. Dept. of Molecular Biology and Pharmacology 14th Oliver H. Lowry Lecture, "Pharmacology: Generational Views and Thoughts," with Oliver H. Lowry, prof. emeritus, WU Dept. of Pharmacology; Jeffrey I. Gordon, prof. and chair, WU Dept. of Molecular Biology and Pharmacology; and Philip Needleman, corporate vice president and chief scientist, Monsanto Co. Moore Aud., 660 S. Euclid Ave.

Friday, May 17

8 a.m. Division of Endocrinology and Bone Metabolism, "Expression and Cloning of the Calcitonin Receptor," Steven Goldring, Dept. of Medicine, Harvard Medical School. Stix Room, First Floor Steinberg, Jewish Hospital.

9:15-10:30 a.m. Pediatric Grand Rounds, "Neonatal Resuscitation in the United States," William J. Keenan, prof. of pediatrics, St. Louis U. School of Medicine and director, Division of Neonatal/Perinatal Medicine, Cardinal Glennon Children's Hospital. Clopton Aud., 4950 Audubon Ave.

Noon. Dept. of Cell Biology and Physiology Seminar, "Hemoglobin Degradation in the Malaria Parasite Plasmodium falciparum: An Ordered Process in a Unique Organelle," Daniel Goldberg, WU prof., Depts. of Internal Medicine and Molecular Microbiology. Room 423 McDonnell Medical Sciences Bldg.

Noon. School of Medicine Transplant Seminar, "Tolerance and Pathogenesis of Organ Specific Autoimmunity," Kenneth S.K. Tung, WU prof. of pathology and medicine. Third Floor Aud., Children's Hospital, 400 S. Kingshighway Blvd.

4 p.m. Division of Hematology Oncology Seminar, "Regulation of HIV Replication," Lee Ratner, Dept. of Hematology Oncology. Room 8841 Clinical Sciences Research Bldg.

MUSIC

Thursday, May 9

8 p.m. Dept. of Music Presents a Duo Piano Recital with Maryse and Seth Carlin. Steinberg Hall Aud. Free.

Friday, May 10

7:30 p.m. Dept. of Music Presents a Senior Piano Recital with Kathleen Donahue. Graham Chapel. Free.

Saturday, May 11

8 p.m. Dept. of Music Presents a Faculty Recital with soprano Christine Armistead and pianist Alice Nelson. Graham Chapel. Free.

EXHIBITIONS

"BFA Exhibition." Through May 19. Opening reception from 2-5 p.m. May 10. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends.

"Core Exhibition." May 3-19. Opening Reception: 2-5 p.m. May 10. Bixby Gallery, Bixby Hall. Exhibit hours: 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends.

"Roman Republican Coins." Through May 19. Gallery of Art, lower gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Washington University Art Collections." Through May. Gallery of Art, lower gallery, Steinberg Hall. Hours: 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For info., call 889-4523.

"Winning Collections of the Neureuther Student Book Collection Competition." Through May 10. Special Collections, Olin Library, Level 5. Exhibit hours: 8:30 a.m.-5 p.m. weekdays. For more info., call 889-5400.

MISCELLANY

Saturday, May 11

1 p.m. The Midwest Seminar in the History of Early Modern Philosophy Annual Spring Meeting. (Also May 12, beginning at 9:30 a.m.) Alumni House, 6510 Wallace Circle. For info., call co-organizer Richard Watson at 889-6670.

Monday, May 13

9 a.m.-4:30 p.m. The Computer Integrated Manufacturing Center Presents a Design of Experiments Seminar, Dale H. Besterfield, prof., College of Engineering and Technology, Southern Ill. U.-Carbondale. Through May 16. \$1,195 per person. Hampton Inn at Union Station. For more info., call 889-4556.

Commencement week activities

Saturday, May 11

8 a.m. "Float Your Boat," rafting on the Meramec River. Buses depart from Brookings Hall.

Sunday, May 12

11:30 a.m.-1 p.m. Senior Champagne Brunch. Sponsored by the Alumni Board of Governors and Student-Alumni Relations Committee. Wohl Center.

Monday, May 13

6:30 p.m. Senior Night at Busch Stadium and Laclede's Landing. Buses depart from Brookings for Busch Stadium. At 10 p.m., buses depart from Brookings for Laclede's Landing.

Tuesday, May 14

8:30 a.m.-5 p.m. Cap and Gown Pick-up. Lambert Lounge, Mallinckrodt Center.

7:15 p.m. Reflections in the Waves. Belle of St. Louis Riverboat Cruise. Buses depart from Brookings.

Wednesday, May 15

8:30 a.m.-5 p.m. Cap and Gown Pick-up. Lambert Lounge, Mallinckrodt Center.

7:30 p.m. University College Presentation Ceremony. Simon Hall Aud. Reception immediately following in Simon Hall Courtyard.

8 p.m. School of Technology and Information Management Recognition Ceremony. Edison Theatre. Reception immediately following, Prince Hall Patio. (Rain location: Umrath Hall Lounge.)

9 p.m. The Last Dance. Senior Party in Bowles Plaza. (Rain Location: Gargoyle.)

Thursday, May 16

8:30 a.m.-5 p.m. Cap and Gown Pick-up. Lambert Lounge, Mallinckrodt Center.

1 p.m. Eliot Honors Convocation for honor students, their parents and guests. Field House.

2:30 p.m. School of Engineering and Applied Science Recognition Ceremony. Field House.

4:30 p.m. College of Arts and Sciences Recognition Ceremony. Brookings Quadrangle. (Rain Location: Field House.)

9 p.m. Commencement Ball. Dancing and Hors D'oeuvres for students, faculty, administrators, families and friends. Adam's Mark Hotel. Buses depart Brookings at 8:30 p.m.

Friday, May 17

8:30 a.m. Commencement in Brookings Quadrangle. (Rain location: St. Louis Arena at 10 a.m.) Immediately following the Commencement exercises, the deans of the various divisions will hold a series of receptions where diplomas will be individually distributed. Refreshments will be available for members of the graduating class, their families and friends. Reception locations: **College of Arts and Sciences:** north side of Graham Chapel. (Rain location: Holmes Lounge.) **Graduate School of Arts and Sciences:** hooding and recognition ceremony in Edison Theatre; reception in Gallery and Gargoyle, lower level, Mallinckrodt Center. **University College:** Women's Bldg. Lounge. **School of Engineering and Applied Science:** south side of Lopata Hall. (Rain location: Lopata Gallery.) **School of Technology and Information Management:** south patio of Prince Hall. (Rain location: Umrath Lounge.) **School of Architecture:** diploma ceremony at 4 p.m. at Brookings approach, north of Givens Hall; reception in Givens Hall. **John M. Olin School of Business:** diploma ceremony in Field House; reception in Simon Hall. **School of Fine Arts:** Steinberg Aud. **George Warren Brown School of Social Work:** diploma ceremony in Graham Chapel at 11 a.m.; reception on east lawn of Brown Hall. (Rain location: Brown Hall Lounge.) **School of Law:** diploma ceremony in Brookings Quadrangle; reception in Mudd Law Bldg. **School of Dental Medicine:** Breckenridge Frontenac Hotel. **Program in Occupational Therapy:** Breckenridge Frontenac Hotel. **Health Administration Program:** diploma ceremony in Moore Aud.; reception in King Faculty Center, School of Medicine Library. **School of Medicine:** St. Louis Marriott Pavilion.

Calendar Deadline

The deadline to submit items for the May 16-June 6 calendar of the Record is May 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 Deborah Parker, calendar editor, Box 1070, or by electronic mail to p72245DP at WUVMC.