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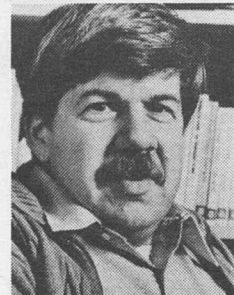
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Stephen Jay Gould will open 1990-91 Assembly Series

Award-winning paleontologist and author Stephen Jay Gould will open the 1990-91 Assembly Series at 11 a.m. on Aug. 29 in Graham Chapel. Gould's lecture, which is free and open to the public, is titled "On the Pattern of Life's History, and the Improbability of Human Evolution." A story on the other 1990-91 speakers will appear in the Aug. 30 Record.

Gould, one of America's foremost paleontologists, has written many books on evolution and scientific history. The Alexander Agassiz Professor of Zoology at Harvard University, Gould first came to the general public's attention in the mid-1970s with his essays in *Natural History* magazine.

In 1980 he received the National Magazine Award for Essays and Criticism for his column, "This View of Life," in *Natural History*. Gould received wider recognition when two collections of his essays were published: *Ever Since Darwin* in 1977 and *The Panda's Thumb* in 1980, for which he won the 1981 National Book Award in science.



Stephen Jay Gould

Throughout his writing Gould has repeatedly called attention to the way in which social climate affects scientific theory. This view is one of the main themes in his 1981 book, *The Mismeasure of Man*, which won the 1982 National Book Critics Circle Award. In 1983 Gould received the Phi Beta Kappa Book Award in Science for *Hen's Teeth and Horse's Toes*. His latest book is *Wonderful Life: The Burgess Shale and the Nature of History* published in 1989. In *Wonderful Life* — the title is a self-conscious reference to the Frank Capra movie — Gould argues that human evolution is the result of many chance events rather than the product of orderly development.

A popular lecturer at Harvard, Gould teaches courses in geology, biology and history of science. He is curator of invertebrate paleontology at Harvard's Museum of Comparative Zoology. Among his numerous other awards are the Schuchert Award for excellence in paleontological research for a paleontologist under age 40, a John D. and Catherine T. MacArthur Foundation Prize Fellowship in 1981 and Discover Magazine's 1981 Scientist of the Year.

Gould's lecture is co-sponsored by the Assembly Series, Congress of the South 40, Orientation Committee and Student Union. For more information on the lecture, call 889-4620.

Plant sale is set

More than 60 varieties of plants, ranging from African violets to ficus trees, will be sold during a giant plant sale from 10 a.m. to 4 p.m. Monday, Aug. 27, in the north lobby and terrace of the Wohl Center, 6515 Wydown Blvd. Prices for the plants will range from \$1.50 to \$25. Hints on plant care will be available at the sale.

The annual plant sale is sponsored by the University's Women's Society and the Women's Panhellenic Association. Proceeds will go to both the Women's Society's Scholarship Fund and to the Women's Panhellenic Association's educational fund.

For information, call 889-5105.



Revealing restoration: Carol Warner, a conservator at The Cleveland Museum of Art, restores a 14th-century B.C. mummy case that has been in the University's Gallery of Art collection since 1896. In the background, Bruce Christman (left), another Cleveland Museum conservator, and J. D. Magurany, Gallery of Art registrar, examine the case's lid. In exchange for the restoration work, the gallery will lend the case to the Cleveland Museum for a major exhibition. See story on page 2.

'The relationship between universities and NASA is the worst since the agency formed'

Scientists testify at congressional hearing

During the past 15 years, the long-standing partnership between NASA and universities has seriously eroded and the federal government has consistently underfunded the basic scientific research that keeps our nation technologically competitive. So testified Washington University's Martin H. Israel, Ph.D., and Robert M. Walker, Ph.D., before a field hearing of the U.S. House of Representatives' subcommittee on Space Science and Applications.

The hearing, which concerned the future of America's space program, was held July 23 at the St. Louis Science Center. Dennis Wint, Ph.D., president of the Science Center, also testified as part of a panel with Israel and Walker.

The hearing was organized by U.S. Rep. Jack Buechner (R-Missouri) to coincide with Spaceweek St. Louis, held annually to mark the anniversary of the Apollo 11 moon landing. Rep. Harold L. Volkmer (D-Missouri) chaired the session, which also included testimony from representatives of the private sector and the government, including James T. Rose, assistant administrator for NASA's Office of Commercial Programs.

Members of the House subcommittee said they were concerned with what they had learned from Israel and Walker's testimony, and promised to ask NASA for an explanation of some of the specific problems they cited.

Walker, McDonnell Professor of Physics and director of the McDonnell Center for the Space Sciences, told the committee that NASA's increasing bureaucracy is impeding basic scientific research.

"Although I have never been more excited about space science as a discipline than I am at this moment, and while I commend the agency for the advances of the last several years, I must also tell you, sadly and reluctantly, that from my viewpoint the relationship between universities and NASA is the worst since the agency was formed," Walker said. "University

space scientists are facing a crisis which if not soon resolved will destroy the scientific base needed to fly future missions and to provide the young talent needed to keep our country in a pre-eminent position into the next century."

In his testimony, Israel, professor of physics and dean of the Faculty of Arts and Sciences, said that "government agencies are expecting universities to bear an increasing share of the support of basic research. We cannot expect the parents of our tuition-paying students to pay for the basic research needed by our entire nation." Israel, who has served on many NASA

committees, further noted that "this nation needs a healthy university research base if we are to maintain our stature in a competitive technological world" and that "universities are the training ground for future space scientists."

Israel and Walker pointed out that NASA research and analysis (R&A) budgets — which provide basic funding for most university-based research groups — are not only failing to keep pace with inflation, but are frequently raided to make up for budget problems in NASA such as cost overrunning of missions or broad

Continued on p. 4

American Indian center director named

A former legal assistant with the U.S. Indian Health Service has been named director of the new Center for American Indian Studies in Social Services at the University's social work school.

Dana Wilson Klar's appointment, effective July 1, was announced by Shanti K. Khinduka, Ph.D., dean of the George Warren Brown School of Social Work.

"Ms. Klar's admirable blend of educational background, personal commitment and enthusiasm will help us at the George Warren Brown School of Social Work develop a much-needed program for preparing future social work practitioners and leaders to serve the American Indian people of our nation," said Khinduka.

Establishment of the American Indian studies center was announced this past May. The center will make it possible for academically qualified Native Americans to receive advanced professional education in social work. Klar's responsibilities include recruiting qualified Native American students, teaching and advising, and conducting related research.

Klar, a graduate of the University's law and social work schools, had been supervisor of Human Resources at Southwestern Bell Publications in St. Louis since March 1989. Prior to her

employment at Southwestern Bell, Klar worked in systems resource



Dana Wilson Klar

management for the Indian Health Service within the Department of Health and Human Services in Washington, D.C. While there, she analyzed Indian health laws from 1800 to the present in researching alternative health-care systems for the Indian Nations.

Klar received a bachelor's degree in 1986 from Louisiana State University in Baton Rouge, where she had a Governor's Commission on Indian Affairs grant from 1982-85. At Washington University, where she was enrolled in a dual degree program, she earned both a master's degree in social work and a law degree in May 1989. She was a U.S. Federal Indian Fellowship recipient from 1987-89.

The American Indian studies center was established through a gift from an anonymous St. Louis donor. The gift will provide six annual scholarships and stipends for Native American graduate students, plus funds for the center's yearly operation.



Cleveland Museum conservator Bruce Christman examines the gold on the mummy case's left cheek, which will be re-gilded along with other face parts where the gold has been destroyed.

Only one of its kind in the Western hemisphere Mummy case undergoes restoration

A 14th-century B.C. mummy case covered with gold, colored glass and pigments, which has been in the Gallery of Art collection since 1896, is getting a beauty treatment by conservators from The Cleveland Museum of Art.

The coffin, which holds the body of a woman who died 3,300 years ago, has been identified by scholars at the Cleveland Museum as the only one of its kind in the Western hemisphere that dates to the reign of Amenhotep III (1391-1353 B.C.).

Cleveland Museum conservators Bruce Christman and Carol Warner recently came to the University to restore the case, which was excavated near Thebes, Egypt. In exchange for conserving the case, the gallery will lend it to the Cleveland Museum for a major exhibition that will be part of the museum's 75th anniversary celebration. The conservators are working in the Gallery of Art's lower level, and visitors may view the restoration project through Aug. 5. The mummy — Henut-wedjebu — is being stored in a pine box.

Christman and Warner are cleaning the coffin with ethanol and trying to stabilize the gold decoration. The gesso undercoat expands and contracts with changes in temperature and humidity, loosening and cracking the outer surface. Christman and Warner also will re-gild the case's left cheek and other parts of the face where the gold has been destroyed.

Once the coffin arrives in Cleveland, the conservators plan to study the decoration more closely. A reddish pigment coats some of the gold decoration and the conservators will determine whether the pigment was placed on the gold intentionally or if it is a corrosion by-product. They also will learn whether the gold is pure or an alloy, perhaps of silver.

Arielle Kozloff, curator of ancient art, and Lawrence Berman, Ph.D., research assistant, both at the Cleveland Museum, say the case is believed to

be one of about eight from Amenhotep III's reign — and the only one in the Western hemisphere. Six other cases from that period are housed in a Cairo museum and one in Moscow.

"It is wonderful, after all these years, to learn more about this object in our collection," says Joseph Ketner, Gallery of Art director. "We are able to provide the Cleveland Museum with an important object for a major exhibition while in exchange the case will be expertly conserved and restored. This kind of cooperation between institutions is crucial to advancing research and improving collections."

Kozloff heads a group of scholars who are intensively researching the art produced during Amenhotep III's reign. Although the pharaoh is not as well known as his successors Akhnaten and Tutankhamen (aka King Tut), Kozloff believes that Amenhotep III spearheaded a renaissance in ancient Egypt. His 38-year reign was an unprecedented era of peace following 250 years of war throughout the region. During that time, says Kozloff, the arts flourished. Exquisite decorative arts, including glass and faience vessels, were created for the use of the luxury-loving royalty and their court, and elaborate temples, embellished with sculptures and painted reliefs, were erected along the Nile.

Not many details about Henut-wedjebu survive. However, the high quality of her case, which is heavily decorated in pressed gold and embossed with hieroglyph descriptions, indicates that it came from the royal workshop.

She is one of two mummies the Gallery of Art owns. It had been on loan to the Museum of Science and Natural History, now part of the St. Louis Science Center, from 1969-1987. The other mummy, Pet-menekh, which has been on display at the St. Louis Art Museum, is on loan to the University of Missouri at Columbia.

Debby Aronson

Thomas A. Harig named acting associate vice chancellor for business affairs

Thomas A. Harig, director of purchasing and general services, has been named acting associate vice chancellor for business affairs, announced Chancellor William H. Danforth.

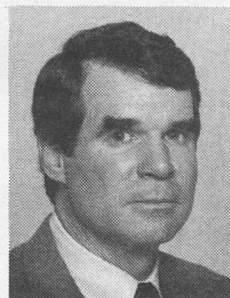
Harig will continue his duties as director of purchasing and general services. He succeeds Joe F. Evans, who retired June 30, after more than 36 years at the University.

Harig began working at the University in 1961 in the procurement department. He left in 1968 to serve as vice president for administration at Lindenwood College. He returned to the University as director of procurement and contract administration, which has expanded and is now the general services department.

Harig is president of the board of directors of the Educational and Institutional Cooperative Service Inc., a not-for-profit cooperative buying

organization made up of more than 2,220 universities, colleges, hospitals and health-care organizations throughout the United States.

He also is an active member of



Thomas A. Harig

both the University Risk Management and Insurance Association and the National Association of Educational Buyers. He is former chairman of the Washington University United Way campaign.

Harig received his bachelor's degree in business administration from Washington University in 1959 and a master's degree in commerce and finance from St. Louis University in 1965.

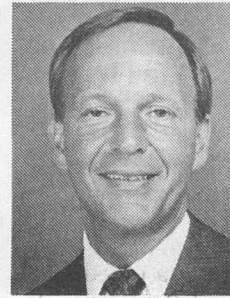
Lee E. Hanson receives promotion

Lee E. Hanson, director of development services, has been promoted to assistant vice chancellor and director of development services, David T. Blasingame, vice chancellor of alumni and development, has announced.

Hanson became associated with the University in 1982 when he was appointed director of the development services department. His responsibilities included the design and implementation of an alumni and development information management system.

Prior to that, Hanson was director of development services at Northwestern University in Evanston, Ill., from 1972 to 1982. He was responsible for the management of a data base of more than 200,000 alumni and friends; prospect research and tracking; gift processing and acknowledgements; and a number of other responsibilities in Northwestern's alumni program.

Hanson earned his bachelor's degree in political science in 1969 and a



Lee E. Hanson

master's in teaching in political science in 1970, both from Northwestern University. He also participated in the doctoral program in educational administration at Northwestern in

1972. Hanson's previous experience includes serving as an instructor of political science for the evening division at Kendall College in Evanston, Ill.

He is a member of Phi Delta Kappa social fraternity and the Council for the Advancement and Support of Education.

Two trustees elected; others re-elected

Two new members have been elected to the Board of Trustees: Thomas H. Jacobsen, chairman, president and chief executive officer of Mercantile Bancorporation Inc. and Mercantile Bank of St. Louis N.A., and Edward E. Whitacre Jr., chairman and chief executive officer of Southwestern Bell Corp. Both are elected to four-year terms.

Prior to joining Mercantile in March of 1989, Jacobsen was a vice chairman and director of Barnett Banks Inc. in Jacksonville, Fla., where he was responsible for a wide range of fiduciary activities.

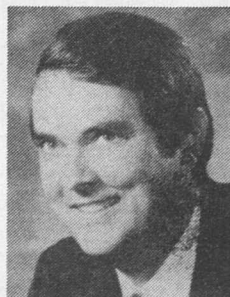
A native of Chicago, he graduated from Lake Forest University in 1963 with an economics degree. He also holds a Master of Business Administration in finance from the University of Chicago and is a graduate of the Harvard Business School's Advanced Management Program.

Whitacre began his career with Southwestern Bell Telephone Co. in 1963 as a student engineer in Dallas, Texas, and progressed through the company's operational departments in Texas, Arkansas and Kansas. In 1983 he moved to Southwestern Bell Corp., where he served in a number of executive positions and was named president and chief operating officer in 1988. He became chairman of the board and chief executive officer in January 1990. Whitacre is a native of Ennis, Texas, and a graduate of the Texas Tech University, where he earned a bachelor's degree in industrial engineering.

The Board also announced the re-election of the following trustees to four-year terms: B. A. Bridgewater Jr., chairman of the board, president and chief executive officer of Brown Group Inc., Paul L. Miller Jr., president of P.L. Miller & Associates, and Harvey Saligman, chairman of the board of INTERCO INCORPORATED.

The Board of Trustees also has re-elected the following former trustees, who, after a mandatory one-year hiatus, are eligible for additional terms: David C. Farrell, chairman and chief executive officer of The May Department Stores Co., Richard F. Ford, managing general partner of Gateway Associates L.P., and Louis S. Sachs, chairman and chief executive officer of Sachs Electric Co. They are elected to four-year terms.

In addition, the University's Board also announced the appointment of two emeritus trustees: Elliot H. Stein, chairman emeritus of Stifel Financial Corp., and William K. Y. Tao, founder of William Tao & Associates Inc., Consulting Engineers.



Thomas H. Jacobsen



Edward E. Whitacre Jr.

NOTABLES

Michael Beckerman, Ph.D., associate professor of music, was awarded a medal by the Czechoslovakian government for his study of Bohuslav Martinu, a 19th-century Czech composer. Beckerman gave a paper and chaired a panel discussion on Martinu at the International Music Festival "Prague Spring" in Prague, Czechoslovakia.

Deirdre Boden, Ph.D., assistant professor of sociology, was an invited speaker at the annual Stone Symposium of the Society for the Study of Symbolic Interaction in St. Petersburg, Fla., where she presented a paper titled "Trust, Modernity and the Interaction Order." In addition, Boden has been elected to a two-year term as state director for Missouri of the Midwest Sociology Society.

Don L. Coursey, Ph.D., professor of business economics, has been named co-editor of the Journal of Economic Behavior and Organization. He will review manuscripts and organize special issues of the journal.

John Garganigo, Ph.D., professor of Romance languages and literatures, presented a paper titled "Pablo de Rokla: Tratectoria en la Vanguardia" at the Contemporary Latin American Poetry: Wor(l)ds of Change seminar at the University of Maine in Bangor.

Jack Hartstein, M.D., associate professor of ophthalmology, was a guest speaker at the International Contact Lens Congress in Atlantic City. He spoke on "Treatment of Corneal Neovascularization with the Argon Laser." He also was a speaker at a meeting of the American Society of Cataract and Refraction Surgery. The title of his talk was "New Curved Tips for the Hartstein Irrigation-Aspiration Unit for Easier 12 O'Clock Cortex Removal."

Wendy Hyman, director of the English as a Second Language program, was guest faculty at the Poynter Institute of Media Studies' seminar for professors of broadcast journalism. During the week-long session Hyman helped the participants explore new approaches to teaching and learning. She received an award at the end of the seminar in recognition of her outstanding teaching skills.

John A. McDonald, M.D., Ph.D., professor of internal medicine and director of the Respiratory and Critical Care Division, spoke on "The Mechanisms of Fibronectin Matrix Assembly"

at the physiology department of Penn State College of Medicine. As a visiting professor at the University of Chicago, he delivered an address on "Architectural Remodeling and Connective Tissue Gene Expression in Pulmonary Fibrosis." In addition, he and **Daniel P. Schuster**, M.D., associate professor of medicine and director of critical care medicine, were invited participants in a National Institutes of Health workshop on idiopathic pulmonary fibrosis held in Washington, D.C. McDonald also delivered a keynote address titled "Applications of Molecular Biology to the Lung: What Have We Learned, Where Will We Go?" at the Swiss National Thoracic Society annual assembly in Basel.

Margaret W. Skinner, Ph.D., director of the cochlear implant program in the Department of Otolaryngology, was one of two invited guest speakers and the concluding speaker for the session on cochlear implants at the Ninth National Conference of the Audiological Society of Australia, presenting three papers: "Selection of Frequency/Gain Characteristics for Hearing Aids," "Monaural and Binaural Loudness Summation in Normal and Hearing-impaired Listeners" and "Performance of Adult Cochlear Implant Patients With Two Speech Processing Strategies: FOFIF2 and Multi-Peak." She also delivered a paper to the otolaryngology department of the University of Melbourne, Royal Victoria Eye and Ear Hospital, in Melbourne, Australia.

Burton E. Sobel, M.D., Tobias and Hortense Lewin Professor of Cardiovascular Diseases, was named to a three-year term as associate editor of Fibrinolysis, an international journal published in the United Kingdom that deals with the fundamental and clinical aspects of the fibrinolytic system and clot dissolution for therapeutic purposes. He also has been elected to a two-year term as secretary-treasurer of the Association of Professors of Cardiology, an organization committed to strengthening academic programs through interactions with the National Institutes of Health, universities, medical school departments and national and international organizations.

Murray L. Wax, Ph.D., professor of sociology, directed a colloquium for the University of Chicago anthropology department. His essay "Malinowski, Freud, and Oedipus" has appeared in the International Review of Psycho-Analysis. At the meetings of the Society for Applied Anthropology in York, England, he participated in a session focusing on Interdisciplinary Relations in Applied Research. **Joan Cassell**, Ph.D., research associate in sociology, also participated in that seminar. Cassell's *Expected Miracles*, an ethnographic study of senior surgeons, will be published by Temple University Press. In addition, an essay "The Looking Glass Self: Reflections on Anorexia Nervosa," co-written with Wax was recently published by the MidAmerican Review of Sociology.

Jones is named Nagel professor

William C. Jones, J.S.D., professor of law, has been appointed the Charles Nagel Professor of International and Comparative Law at the University, according to Dorsey D. Ellis Jr., J.D., dean of the School of Law.

Jones' appointment recognizes "his contributions to the law school and to legal scholarship," says Ellis. "His substantial scholarly contributions to our understanding of Chinese law have attracted national recognition."

Jones, a Chinese law expert, has been a member of the law faculty since 1955. From 1982-84 he served as a Fulbright Lecturer at Wuhan University in the Hubei province of China.

Jones' most recent book is *Basic Principles of Civil Law in China*, published by M.E. Sharpe in 1989. Among the numerous articles he has

written are "Some Questions Regarding the Significance of the General



William C. Jones

Provisions of Civil Law of the People's Republic of China," published in the 1987 issue of the Harvard University International Law Journal, and "Sources of Chinese Obligation Law," published in the 1989 issue of the journal Law and Contemporary Problems.

Jones received a bachelor's degree from Yale University in 1946, a law degree from Harvard University in 1949 and a doctorate in law from the University of Chicago in 1961.

Carl Rhodes appointed associate dean

Carl D. Rhodes Jr., Ph.D., has been named associate dean for graduate studies at the School of Medicine and associate dean in the Graduate School of Arts and Sciences.

The appointments, effective July 1, were announced by William A. Peck, M.D., vice chancellor for medical affairs and dean of the School of Medicine, and Edward N. Wilson, Ph.D., dean of the Graduate School of Arts and Sciences.

"Carl Rhodes is a truly outstanding administrator of graduate programs in the sciences," Peck said. "His unique talents will have a strong, positive impact on all phases of our program. We are indeed fortunate that he has joined us."

Rhodes, who was at the medical school from 1983 to 1988, returns to St. Louis after serving for two years at the University of Texas Southwestern Medical Center in Dallas. There, he was associate dean for the Medical Scientist Training Program and the Graduate School of Biomedical Sciences, and was an associate professor of biochemistry.

During his past affiliation with the School of Medicine, Rhodes was associate director of the Division of Biology and Biomedical Sciences, with responsibility for the interdepartmental Ph.D. programs. In addition, he served

as adjunct professor of biology and adjunct associate professor of biological chemistry.

In his new capacity, Rhodes will be chief academic administrative



Carl D. Rhodes Jr.

officer for the six interdepartmental Ph.D. programs in the Division of Biology and Biomedical Sciences. As such, he will plan curricula, coordinate recruitment and have direct responsibility for admissions

into the division programs. Among his responsibilities in the Graduate School of Arts and Sciences, Rhodes will be involved in recruiting students for mathematics and the laboratory sciences, including chemistry, earth and planetary sciences and physics.

Rhodes also has received two faculty appointments: research professor in biochemistry and molecular biophysics at the School of Medicine and adjunct professor of biology.

Rhodes received a bachelor's degree in zoology and a master's degree in genetics from the University of North Carolina at Chapel Hill. He received his doctorate in biology from The Johns Hopkins University.

Glenda Wiman is named assistant dean

Glenda K. Wiman has been named assistant dean for special programs at the School of Medicine.

The appointment, effective July 1, was announced by William A. Peck, M.D., vice chancellor for medical affairs and School of Medicine dean.

"Glenda Wiman's extensive background in medical public relations, managerial skill and wide range of interests will be most helpful in exciting new programmatic development at the School of Medicine," Peck said.

In her new role, Wiman will have responsibility for varied and numerous



Glenda K. Wiman

projects. They include supervising and coordinating the National Council of the medical school; developing continuing medical education programs for regional physicians; planning and implementing recruitment and orientation programs for department heads, key administrators, staff, faculty and Board of Trustee members; developing and monitoring medical

and graduate student recruitment programs; and initiating a liaison program with corporate and community relations. She will continue to have a key role in the Office of Medical Public Affairs for the next year.

For the last three years, Wiman has been executive director of the Office of Medical Public Affairs. She has been with the public affairs staff for 15 years, starting as a staff writer for Outlook magazine. She served as coordinator of news and information for three years and was named director of medical public relations in 1981.

Wiman received her bachelor's degree in English and communications from Stephens College in Columbia, Mo., and also attended the University of Kansas, Lawrence.

Correction

The July 5 issue of the Record ran an incorrect byline with the Medical Record article "Electroshock therapy: Advances lead to quiet revival." The correct author is Candace O'Connor, a St. Louis free-lance writer who has written numerous feature articles for the University.

RECORD

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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.

CALENDAR

LECTURES

Aug. 2-30

Friday, Aug. 3

Noon. Dept. of Surgery Transplant Seminar, "Prevention and Treatment of Cytomegalovirus Disease in Transplant Recipients," Henry H. Balfour Jr., professor, Dept. of Laboratory Medicine and Pathology, U. of Minn. 3rd Floor Aud. Children's Hospital.

2 p.m. Dept. of Biochemistry and Molecular Biophysics and Division of Hematology and Oncology Seminar, "Are t-PA, Urokinase and Factor VII Genuine Zymogens? How Are They Involved in Protease Cascade Initiation?" Lars Petersen, Novo-Nordisk, Copenhagen. Room 8841 Clinical Sciences Research Bldg.

Wednesday, Aug. 29

11 a.m. Assembly Series Lecture, "On the Pattern of Life's History, and the Improbability of Human Evolution," Stephen Jay Gould, Alexander Agassiz Professor of Zoology at Harvard University and author of *Wonderful Life: The Burgess Shale and the Nature of History*. Graham Chapel. For more info., call 889-5285.

Thursday, Aug. 30

Noon. Dept. of Surgery Transplant Seminar, "Cytotoxic T-lymphocyte Development and Regulation at the Late Pre-Effector Stages," Brian Susskind, assoc. professor of surgery, microbiology and immunology, Medical College of Virginia, Virginia Commonwealth University. Room 7738 Clinical Sciences Research Bldg.

MUSIC

Monday, Aug. 13

8 p.m. Dept. of Music Presents WU Percussion Ensemble Concert, "Drums in the Night," directed by Rich O'Donnell, WU instructor in music. On the patio behind Blewett A Hall. For more info., call 889-5574.

EXHIBITIONS

"Russians in America: Collaborations by Komar & Melamid," featuring work by Vitaly Komar and Alexander Melamid, Russian emigre artists whose images satirize official Soviet ideological poster art. Gallery of Art, Steinberg Hall. Through Aug. 12. 10 a.m.-5 p.m. Tuesdays through Fridays; 1-5 p.m. weekends. For more info., call 889-4523.

"Bookness: Artists' Explorations of Form and Content," including "artist's books" by John Cage, Andy Warhol and local artist Leila Dew. (An opening reception for this and two other shows will be held from 7-9 p.m. Sept. 7 in the Gallery of Art.) Gallery of Art, Steinberg Hall, lower gallery. Aug. 18-Dec. 2. 10 a.m.-5 p.m. Tuesdays through Fridays (will be open on Mondays, same time, after Sept. 3); 1-5 p.m. weekends. For more info., call 889-4523.

MISCELLANY

Monday, Aug. 13

9 a.m. Payroll Office Workshop, "Payment and Taxation of Alien Employees," William S. Beggs, WU payroll manager. Room 215 Rebstock Hall. (Also 9 a.m. Aug. 14 in Cori Aud. McDonnell Medical Sciences Bldg. on Medical School Campus.) For more info., call 726-4387.

Monday, Aug. 20

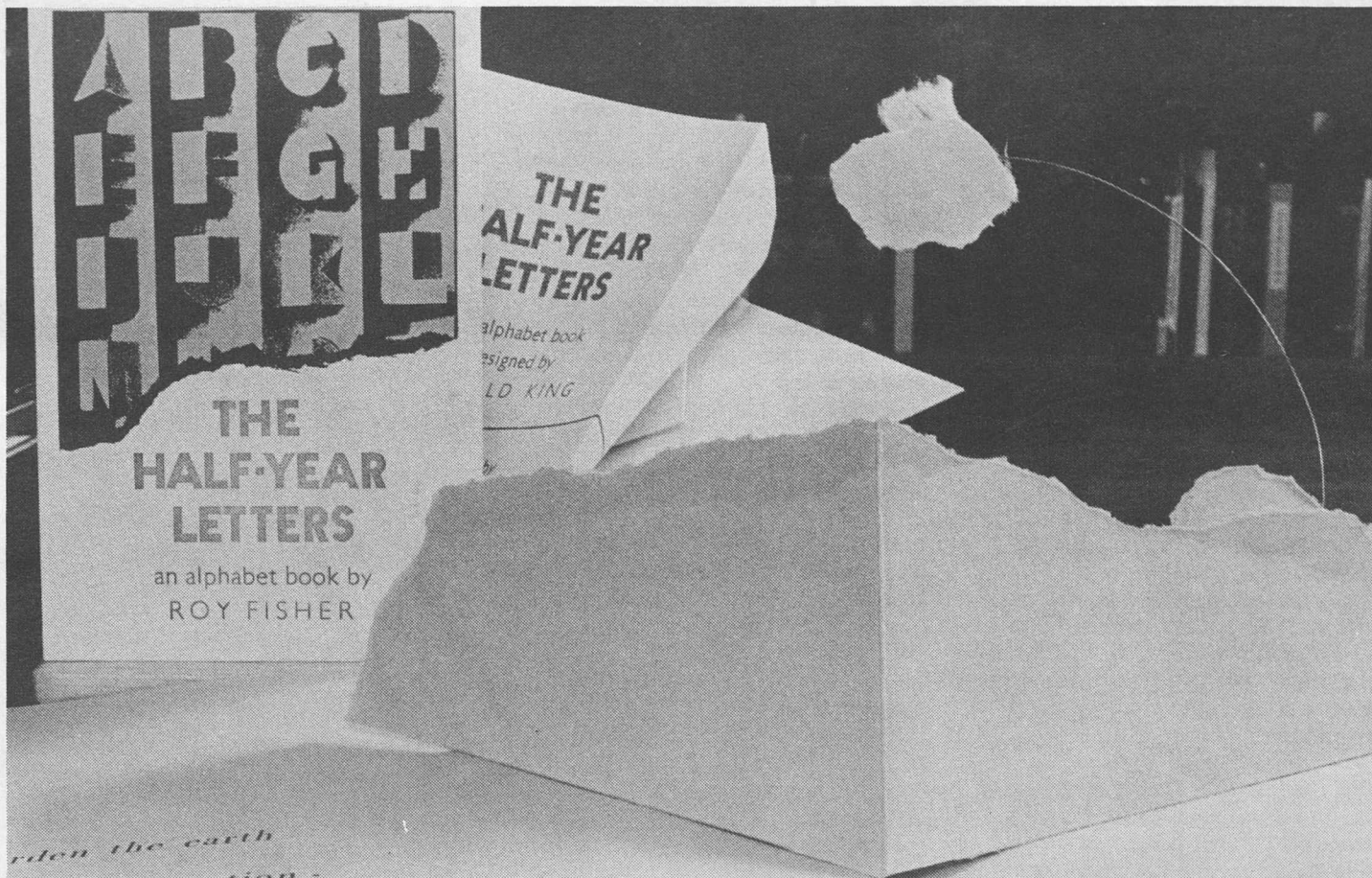
1:30 p.m. Payroll Office Presentation on Direct Deposit Service for Employees, by William S. Beggs, WU payroll manager. Cori Aud. McDonnell Medical Sciences Bldg. on Medical School Campus. (Also 10 a.m. Aug. 21 Room 118 Brown Hall on Hilltop Campus.) For more info., call 726-4387.

Monday, Aug. 27

10 a.m.-4 p.m. Women's Society and Women's Panhellenic Association Plant Sale. North lobby, Wohl Center. Proceeds go to Women's Society Scholarship and to the Women's Panhellenic Associations educational fund. For more info., call 889-5105.

Calendar Deadline

The deadline to submit items for Aug. 30-Sept. 8 calendar of the Washington University Record is Aug. 17. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Send items to Andrew Cox, calendar editor, Box 1070, or by electronic mail to p72245AC at WUVMC.



Book art: Books as an art form will be the subject of an exhibit titled "Bookness: Artists' Explorations of Form and Content" on display Aug. 18-Dec. 2 in the Gallery of Art's lower level, Steinberg Hall. The exhibit, featuring books and prints from the gallery's collection, Olin Library's Special Collections and private collections, includes *The Half-Year Letters: an Alphabet Book*, a pop-up book with three-dimensional alphabet forms and poetic meditations and *Las Piedras del cielo (Skystones)* by Chilean poet Pablo Neruda. The Gallery of Art is open 10 a.m.-5 p.m. weekdays and 1-5 p.m. weekends.

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budget cuts imposed on the agency. Also, unlike during the Apollo days, NASA no longer provides universities with funding for research facilities and provides inadequate levels of support for new equipment, technical support staffs and faculty salaries.

"While taking up a relatively small part of the overall NASA budget, R&A programs are responsible, directly or indirectly, for a large fraction of the scientific results of the space program," Israel said. "University scientists find themselves spending more and more time seeking a multitude of smaller research grants in order to sustain their research capability, rather than devoting time to research."

Walker testified that the McDonnell Center has not been repaid for money it advanced NASA for work on initiatives such as the Long Duration Exposure Facility satellite and the planned Space Station Freedom. Including Walker, who has been named a principal investigator for one of the first experiments selected to fly on Freedom, 19 McDonnell Center faculty members are involved in space program projects, including the Magellan Mission to Venus, the Mars Observer and the space station.

Walker decried the deteriorating condition of many NASA-supported laboratories in the United States. He noted that unlike many other labs, the McDonnell Center has state-of-the-art facilities, thanks to generous private donors and a supportive and far-sighted administration. These facilities have helped the center achieve worldwide recognition for its groundbreaking work in the micro-analysis of extraterrestrial materials, including lunar samples, interstellar dust and meteorites.

"The current attitude within the agency is a very far cry from the can-do philosophy that characterized NASA in the Apollo days," said Walker, who has worked on NASA missions, including Apollo 16 and 17, for more than 25 years.

Walker and Israel called on NASA and Congress to give a higher priority to NASA's stated goal of "ensuring a vital and productive research base." They asked that the R&A line items in the science budget be increased; that the R&A funds be protected from raids

caused by cost overruns on other programs; that sufficient contingency funds be built into new missions; and that enough funds be allocated to deal with the complexity and volume of data expected from future missions. Finally, they called upon the committee to reinstitute sustaining grants to universities.

Under the sustaining grants program, NASA provided small amounts of money to universities, which were allowed to spend the funds as they saw fit. Walker noted that this "seed money" resulted in "a substantial number of successful projects that have influenced NASA and the country as a whole," including the two Washington University projects that have been selected for the Space Station. Israel noted that such funding frequently results in "spinoffs," including a radiation detector that is now being used in cancer therapy. That recently developed

instrument was the result of a collaboration between University physicists working on cosmic-ray studies and medical school researchers.

"NASA accomplished so much because it has harnessed the imagination and energy of a broad cross-section of our populace, scientist and citizen alike," Walker said in his closing statement.

"Breathtaking vistas have been opened up and I want my children and my children's children to explore them. I want to encourage young people to devote their lives to space science. I want them to share the joys of discovery. I want them to participate in this noble enterprise. So I think do you, and so I think do the dedicated people of NASA. If there are problems — and there are — let us identify them, let us solve them and let us get back to the joint work at hand."

Direct payroll deposit service is offered

Beginning in September, all regular employees who are paid on the monthly payroll schedule will be eligible for direct deposit of their checks at no cost. The University will deposit an employee's net pay into either a checking or savings account at most banks, credit unions and savings and loans, locally or across the nation.

William S. Beggs, payroll manager, will conduct presentations this month on both campuses. These presentations will provide additional

information and enrollment opportunities for this service.

These sessions are scheduled for 1:30 p.m. Aug. 20 at Cori Auditorium at the medical school, and 10 a.m. Aug. 21 in Room 118 of Brown Hall. Employees who want to enroll during these sessions should bring an original check marked "void."

Employees who cannot attend a session but who would like an enrollment form or more information may call Carol Brown at 726-4387.

Workshop on non-resident tax laws set

A workshop on "Payment and Taxation of Alien Employees" will be held on both the Hilltop and Medical School campuses. The Hilltop session will be at 9 a.m. Aug. 13 in Room 215 in Rebstock Hall; the medical school session will be at 9 a.m. Aug. 14 in Cori Auditorium in the McDonnell Medical Sciences Building. University Payroll Manager William S. Beggs will present the two workshop sessions.

The workshop, free and open to all interested faculty and staff, will help answer questions about the new U.S. non-resident tax laws. Non-resi-

dent employees as well as the University administrators who must deal with the requirements for these employees will benefit from this workshop.

Workshop speakers are Kathy Steiner, director of the International Office; Monica A. Plummer, supervisor in the Disbursements Office; and Maryanne Schrader of the Internal Revenue Service.

For more information, call 726-4387. If you cannot attend but would like to receive workshop materials, call Nila Mehta at the same number after Aug. 15.