John A. Pierce (above, right) has been named the first Selma and Herman Seldin Professor of Medicine in Pulmonary Diseases at WU's School of Medicine. With Pierce are Samuel B. Guze, vice chancellor for medical affairs and head of the department of psychiatry at the School of Medicine, and Selma Seldin, wife of the late Herman Seldin who opened Miss Elaine, a lingerie manufacturing company in St. Louis in 1926.

John A. Pierce named first Seldin professor

John A. Pierce will hold the first Selma and Herman Seldin Professorship of Medicine in Pulmonary Diseases at WU’s School of Medicine. The appointment was announced by Chancellor William H. Danforth. Pierce is an internationally recognized authority on the development of emphysema and head of the pulmonary disease division of the Department of Medicine. He holds appointments at Barnes and Children’s hospitals.

The Seldins’ $1 million pledge to WU will support the salary and programs of the director of the pulmonary medicine division. Mrs. Seldin and other family members presented the first of four annual gifts of $250,000 recently during a ceremony installing Pierce as the Seldin Professor. Pierce’s research has focused primarily on lung biochemistry and emphysema, a common, disabling disease characterized by deformity of the connective tissue framework of the lung. He pioneered the modern era of lung research by making the first measurements of collagen and elastin, the major connective tissue proteins in the lung. With Washington University colleagues Robert Senior and Charles Kuhn, he produced an experimental model of emphysema that led to the currently accepted theory about how emphysema develops. Their model has now been studied in centers around the world.

Pierce has been at WU since 1967, when he joined the faculty as an associate professor of medicine, chief of the pulmonary division of the Department of Medicine and chief of the pulmonary disease division of John Cochran Veterans Administration Hospital. He was named professor of medicine in 1972.

When President Reagan directed NASA to build a permanent, manned space station in his recent State of the Union Address, Larry Haskin, fellow at the McDonnell Center for the Space Sciences and WU professor of earth and planetary sciences, couldn’t help but flinch.

While I don’t oppose the space station as a steppingstone to a moonbase,” he says, “I believe that a space station at an end in itself would be in the best interests of this country or of mankind. The moon has too much to offer.”

Haskin, former chief of NASA’s lunar and planetary sciences division, proposed the moon as a source of useful materials in the not too distant future. Moon mines, he believes, could generate a wealth of iron, titanium, aluminum and even oxygen for spacecraft fuel. A moonbase could be self-supporting, supplying its own energy with solar collectors. Lunar materials also could be used to construct objects in space, thereby skirting the obstacle of blasting materials out of the earth’s relatively great gravitational pull.

A moonbase could even be a way-station for missions to deep space. Many advantages, according to Haskin, will become apparent only after a moonbase is established, but the possibilities are mind-boggling.

The Soviet space program has been moving in the direction of a space station for many years. They’ve logged hundreds more man-hours in space than the Americans. So, the development of an American space station would be largely a game of catch-up ball.

Haskin damns former space station as an end in itself would not give our advantage.” But even if the project were announced today, admits Haskin, the establishment of a permanent lunar base would be many years, perhaps decades, away. This timelag is a major political factor considering that the decision for or against a moonbase is made by government officials with two- or six-year terms of office.

“Unfortunately,” says Haskin, “it’s difficult to interest politicians in projects that won’t bear fruit until after they’ve left office. It’s just something we have to work around... something we have to live with.”

Poet Angelou to deliver Chimes lecture

Author and poet Maya Angelou will present a reading of her work and commentary when she delivers the Second Annual Chimes Lecture at 11 a.m. Wednesday, Feb. 8, in Graham Chapel. The talk, which is free and open to the public, is sponsored by the Assembly Series: the Campus Bookstore; and Chimes, WU’s Junior Women’s Honorary.

Angelou in St. Louis in 1928, Angelou spent most of her early childhood with her grandmother in Stamps, Ark. With only a high school education, she has been a singer, educator, dancer, historian, actress, producer, editor, songwriter and playwright. She also fluently speaks six languages.

Random House has published five best sellers by Angelou: I Know Why the Caged Bird Sings and Gather Together In My Name, her two autobiographical novels; and Just Give Me a Cool Drink of Water I've Been so Hungry. She’s served as a writer-producer for 20th Century-Fox and author and executive producer of a five-part miniseries, “Three Way Choice,” for CBS. Her autobiographical account of her youth, I Know Why the Caged Bird Sings, was aired as a two-hour TV special for CBS in April 1979. For PBS she hosted a study course, “Humanities Through the Arts,” which was filmed in 30 half-hour segments and syndicated throughout the country. She received the Golden Eagle Award in 1977 for her documentary, “Afro-American in the Arts,” for PBS.

Angelou was named “Woman of the Year in Communications” in 1976 by the Ladies’ Home Journal and she served on Jimmy Carter’s Presidential Commission for International Woman’s Year, 1978-1979. She has received numerous honorary degrees, including ones from Mills College, Lawrence University, Columbia College and Smith College. She also received the Chubb Fellowship from Yale.

I Didi, Oh Pray My Wings Are Gone
A Fool Me Well and And Still I Rise, her three books of poetry.

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I Didi, Oh Pray My Wings Are Gone a Fool Me Well and And Still I Rise, her three books of poetry.
New process adds color, dimension to sonar mapping of ocean floors

We look at distant stars through mammoth telescopes. We look at microorganisms through powerful microscopes. But how can scientists study the ocean floor which lies beneath fathoms of black and beguiling brine?

For five years, the answer has been Seabeam, a sonar mapping system which gathers signals bounced off the ocean floor and dumps them onto magnetic tape as numerical representations. Scientists then run this data through a computer which draws lines between corresponding numbers. The result is a contour chart, a confusing collection of scribbles, spirals and swirls intelligible only to topographers, geologists and the like.

But due to a recent innovation at WU’s McDonnell Center for the Space Sciences, scientists now have a brand new way of seeing the ocean floor. Rody Batiza, a marine geologist, teamed up with Ray Arvidson, a planetary geologist, and Margo Edwards, a graduate student, to give the world the most detailed look at undersea formations ever produced from a surface ship. Their breakthrough was the application of an array processor, an image enhancement technique originally developed to create images from the flood of numerical data sent back to earth from planetary explorers.

The array processor uses colors to show researchers much more than the black and white contour maps.

Scientists can even impose a “sun” on the picture to see where shadows would fall. “This lets us see all sorts of details that we could never see before,” says Batiza, who, along with Arvidson, is an associate professor in WU’s Department of Earth and Planetary Sciences.

This new development has obvious applications. Every navy wants detailed ocean floor maps for navigation purposes. But the Seabeam/array processor technique also could have commercial applications: Scientists have long known that certain geological formations indicate valuable mineral deposits. Clearer imaging of these formations means better clues for undersea miners.

This technique, according to Batiza, also will enable marine geologists to learn more about the formation and development of the ocean floor. “This image enhancement can be used to study electromagnetism, gravitational fields — any number of things,” says Batiza. “I just happen to be looking at seamounts.”

Volunteers needed for study on treating insomnia

The Psychological Service Center is conducting a study on the effectiveness of treating insomnia. The treatment does not involve taking drugs and requires about one month of weekly sessions. The center is seeking volunteers who have difficulty staying asleep at night. If you have this difficulty, contact Ruth Davies at 889-6545 for more information.

Eroding plastics imperil cosmic dust research

Flexibility, strength and light weight have been possible to the space program from the beginning. Plastics have orbited the earth, landed on Mars and even left the solar system as parts of spacecraft.

But to our surprise, we have found that plastic surfaces in near-earth orbit are eaten away at an absolutely ferocious rate," says Robert Walker, director of the WU McDonnell Center for the Space Sciences and McDonnell Professor of Physics.

The phenomenon, first noted by NASA scientists after the third shuttle flight in August 1982, posed a crucial threat to an expensive cosmic dust "catcher" being built by McDonnell Center scientists for the April 1984 shuttle mission. Scientists were seeking ways to increase the "harvest" of cosmic dust begun about 10 years ago when high-altitude U-2 airplane flights netted the first handful of the precious particles.

"We believe that most of these interplanetary dust particles may have originated from comets," says Ernst Zinner, senior research associate in physics. "Comets were formed in the outer region of the solar system where the conditions are such that these materials have not been changed much by secondary processes. It means this material is primitive in the sense that it contains information from the time of the formation of the solar system -- or even the time before."

Cosmic dust research could well shed light on the most basic scientific question: Where did our solar system come from?

When the McDonnell scientists designed their cosmic dust trap, they intended it to last a year in space. "But early shuttle results showed that space erosion would destroy our experiment in a matter of hours or, at most, days," says Walker.

Adds Zinner, "This came as a complete surprise to us. We were working with space-rated plastics that had been to the moon and back. Why were they falling apart?"

The culprit, scientists believe, is atomic oxygen. Unlike the double-oxygen molecules we breathe, these single atoms of oxygen, which are rarely found in the earth's lower atmosphere, are highly reactive -- enough so, apparently, to cause chemical corrosion in plastics. After more experiments and data analysis, the WU team found at least one solution to the problem. "Our tests show that the plastics can be adequately protected with a thin coating of gold palladium metal," says Walker.

The atomic oxygen effect, Walker speculates, may be responsible for some unexplained satellite failures. The corrosion already has been taken into account by designers of future spacecraft. Plastics are far too useful for the space program to do without, so WU’s dust catcher, scheduled for launch this April, will be watched closely for two reasons: 1) to see if it catches anything and 2) to see how it survives a year in space.

Ray Arvidson

Gargoyle to feature jazz concert

The rhythm section of the WU Jazz Ensemble will present a concert of classical bebop jazz at 8 p.m. Wednesday, Feb. 8, in the Gargoyle Coffeehouse located in the Mallinckrodt Center.

The ensemble will perform under the direction of Robert Edwards, who will play the trombone in a number of works.

The concert, free and open to the public, is co-sponsored by the Department of Music and the Wednesday Night Coffeehouse Series.

To enhance the atmosphere, candelabras will be placed on tables and espresso and capuccino coffees will be available at reasonable prices, said Greg Giesen, coordinator of student activities and advisor to the Gargoyle committee, which sponsors the coffeehouse series.

For more information, call the music department at 889-5581.
Larry E. Davis, associate professor of social work and psychology, has been invited to serve as a guest in the Missouri Institute of Psychiatry's University Speakers series. The topic of Davis' presentation on "The White Mob Group Therapy." The speaker series, which has been held for 17 years, is open to members of the public. Davis will also deliver his paper titled "White and Black Social Work Faculty: Perceptions of Respect, Satification, and Job Permanence," at the Council on Social Work Education's Annual Program Meeting in Detroit, Mich., March 11-14. The theme of the meeting is "The Pursuit of Excellence in an Era of Retrenchment."

Hollis Hunton and Anna Marie Schary, artists-in-residence in the Performing Arts Area, conducted workshops offered in the Mid-American Regional of the American College Theatre Festival held in St. Louis Jan. 25-28. Hunton demonstrated the dramatic principles of mime and their application to acting problems. Schary taught a workshop in modern dance. The 1984 regional festival drew over 600 students and faculty from colleges throughout Missouri, Kansas, Iowa and Nebraska.

David Lake, a junior from Wichita, Kan., and Larry Pearson, a junior from Clayton, Mo., both members of the WU chapter of the Society of Physics Students, won an honorable mention for a physics research project八大以来のもの。The first prize went to the WU chapter. The prizes are diplomas and $250 scholarships.

Richard Larsen, WU baseball coach, has been selected by the American Baseball Coaches Association to represent amateur baseball in the St. Louis area in a liaison capacity with professional baseball. In his position, Larsen will work with the St. Louis Cardinals organization to promote interest in baseball among professional baseball and collegiate and amateur baseball.

There is one person in that liaison role for every major league team.

Bill Loderrose, a senior in the School of Fine Arts, won a $500 cash award for his painting "Visions," which was one of three winners in the Bagel Art Competition sponsored by Lender's Bagels. In addition, WU also received a $250 donation to Loderrose's scholarship fund.

Paintings by James McGarrell, professor of fine art, will be exhibited during the month of February at the Alton Frunkin Gallery in New York City. The one-man show opens Feb. 4 and will include work from the last three years. All of the work was accomplished in St. Louis and in his home studio in Italy since McGarrell joined the WU faculty in September of 1975.

Annelise Mertz, director of WU's Lodderhose's scholarship fund, will be exhibited during the month of February at the Central Institute for the Deaf. Mertz developed a "bodily" for profoundly deaf persons for whom conventional hearing aids are ineffective.

Rita Numeroff, assistant professor of social work, will speak on "Enhancing Productivity in the Health Care Organization" during the American Management Association's 55th Annual Human Resources Conference, March 19-21. The conference, titled "Innovation in a Changing Environment," will be held at the Westin Hotel in Boston, Mass.

James B. Rives and Andrew J. Lambrecht, December graduates from the College of Arts and Sciences, recently were co-awarded the Eugene Taveriner Classics Prize from WU's Department of Classics. Rives was also awarded the Edward Welin History Prize from the department. The prizes are diplomas in Latin produced by an expert in Renaissance calligraphy. Rives plans to study for a PhD in classical philology, and Lambrecht, a SPIM scholar, will enter the School of Medicine. The classics department also announced that Dennis A. Paul, a senior in the College of Arts and Sciences, has been awarded the B'nai Zion Medal for proficiency in Hebrew from the American Zionist Fraternal Organization in New York.

Paul plans to enter Concordia Seminary after graduation in May.

Robert A. Wyckes, composer and professor in the Department of Music, attended a performance in December of his composition, titled "Resonances." The Colgate Concert Orchestra performed the work at Colgate University in New York. Last spring, "Resonances" was played by the Symphony Society of Northern Arkansas in Fayetteville. The piece was commissioned in 1971 by Eleazar de Carvalho, currently the director of two orchestras in Brazil.

You have 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 or professional activities are gladly accepted and encouraged. Please have your name, your university department and activity to Notables, Campus Box 14, please include your phone number where you can be reached.

Two ROTC cadets win scholarships

Two WU Army ROTC cadets have won scholarship awards from the St. Louis post of the Society of American Military Engineers. They are Cadet Capt. Mark Telfer, a senior in the engineering sciences and company commander in the Army ROTC detachment, and Cadet Capt. Daryl Hild, a senior in the engineering school and cadet supply officer in ROTC.

Telfer won the Bruce Eugene Bussen Memorial Scholarship Award of $1,500 and Hild was awarded a $250 scholarship achievement award.

Dance company to perform at Edison Theatre

Bill Evans and Gregg Lizenbery, co-founders of the Seattle-based Bill Evans Dance Company, will perform a concert of solos and duets at 8 p.m. Friday and Saturday, Feb. 3-4, at Edison Theatre.

The program will feature six choreographed works set to classical music by J. S. Bach and Andrzei Panufnik, ragtime scores and other jazz forms.

A native of Lehi, Utah, Evans began professional training and performance at the age of 15. His work is performed by 23 professional ballet and modern dance companies throughout the United States, Canada and Europe. In the spring of 1984, Evans will assume full artistic direction of Winnipeg's Contemporary Dance Company, the oldest modern dance company in Canada and the oldest repertory dance company in North America. Lizenbery took his first dance class with Bill Evans at the University of Utah in 1967. That same year he joined the RDT, remaining a member of the company for eight years. He has taught at the Jose Limon studios in New York City and is a certified movement analyst at the Laban/Bartenieff Institute for Movement Studies in New York. He has been named permanent guest artist for the upcoming season of Winnipeg's Contemporary Dancers.

Judge George Gunn Jr. to speak at law school's judicial lecture series

The third lecture of the Judicial Lecture-Demonstration Series sponsored by the School of Law will be presented on Wednesday, Feb. 8, at 1:35 p.m. in the Mudd Courtroom. The lecture, titled "Jury Selection and Opening Statements," will be delivered by Judge George Gunn Jr. of the Missouri Supreme Court.

Future lectures include "Direct and Cross Examination," by Judge Anna Forder, St. Louis Circuit Court, on Feb. 15, "Closing Arguments," by Judge Clyde Cahill, U.S. District Court-Eastern Division of Missouri, on Feb. 22, and "Appellate Argument" by Judge Theodore McMillan, U.S. Circuit Court-Eighth Circuit, on Feb. 24. All lectures will be held at 3:15 p.m. in Mudd Courtroom and are free and open to the public.

Judge Susan Black, St. Louis Circuit Court Circuit, spoke on "Initial Client Interview and Dispositions" on Jan. 25 and Judge Brendan Ryan, St. Louis City Circuit Court, spoke on "Pre-Trial Motions" on Feb. 1.

The lecture series, titled "Anatomy of a Lawsuit," was initiated in 1981 by Karen Tokarz, assistant professor of law, and Edward Twinnelried, professor of law. It is a project of the Advocacy and Litigation Program. The series is offered in conjunction with a first-year civil procedure course.
Thursday, Feb. 2
7 p.m. Raptor Rehabilitation and Propagation Center Symposium at Tyson Research Center. (Also Feb. 10, 24 and March 2, 9 and 16, same time, Tyson.) For more info, call 938-5193.

Friday, Feb. 3
12:05 p.m. Blessing of Threats in Honor of the Feast of St. Blase during the noon Mass in Newman Chapel, 6525 Forsyth Blvd.
7:30 p.m. Inter-Varsity Christian Fellowship Meeting, Green Stuff Line, Wolfen Center. (Also Feb. 10, same time, Wolf.)

Sunday, Feb. 5

Monday, Feb. 6
2 p.m. Personal Computing Education Center Short Course, "301 Advanced JCL." (Also 8 a.m.-6 p.m., free to WU community. For class location and registration, call 889-5813.

Tuesday, Feb. 7
1 p.m. Personal Computing Education Center Short Course, "Introduction to Computing." Free to WU community. For class location and registration, call 889-5813.
4 to 5 p.m. Daily Happy Hour at Newman Catholic Student Center, 6525 Forsyth Blvd. Coffee and doughnuts will be served. A soup and sandwich counter is open daily from 11 a.m. to 1 p.m.

Thursday, Feb. 9
4 p.m. Department of Chemistry Seminar, "The Study of Enzyme Catalyzed Reactions In Vivo and In Vitro by NMR." Robert S. Baldo, National Heart, Lung and Blood Institute, Bethesda, Md. 6518
8 p.m. Department of History Lecture, "Epic Spain," Carlos Fuentes, WU Visiting Professor. 8:30 p.m. Edison Theatre presents Jose Limon Dance Company. (Also Sat., Feb. 11, 11:30 a.m. to 2 p.m.)

Friday, Feb. 10
8 p.m. Edison Theatre presents Jose Limon Dance Company. (Also Sat., Feb. 11, 11:30 a.m. to 2 p.m., Edison General admission $8; WU faculty, staff and area students $5; WU students $4. For more info., call the Edison Theatre box office at 889-6543.

Saturday, Feb. 11

Friday, Feb. 11
8 p.m. Edison Theatre presents Bill Evans and Gregg Lourengen, dance duo. (Also Sat., Feb. 4, same time. Edison General admission $8; WU faculty, staff and area students $5; WU students $4. For more info., call the Edison Theatre box office at 889-6543.

Friday, Feb. 12
8 p.m. Department of Music Visiting Artists Recital with Wendy Gillespie, gambist. and her husband Paul Elliott, tenor. Holmes Lounge.
Saturday, Feb. 12
8 p.m. B'nai B'rith Hillel Foundation Concert with folk singer Debbie Friedman. Hillel House, 6500 Forsyth Blvd. General admission $4; students and senior citizens $3. For more info., call 726-6177.
Wednesday, Feb. 8
8 p.m. WU Jazz Ensemble Concert with Robert Edwards, director. Gargerie, Mallinckrodt Center.

Saturday, Feb. 4
11 a.m. Saturday Seminar Series, "Theology and the Politics of Collectivism." Robert C. Williams, WU prof. of history and dean of University College. Sponsored by the Master of Liberal Arts Program and University College. Ann Whitney Olin Women's Bdgs. Lounge.

Monday, Feb. 6
4 p.m. Department of Biology Seminar, "DNA — Discriminatory Translation Control." Robert E. Thach, WU prof. of biology. 522 Reboiss.

Tuesday, Feb. 7
7 p.m. Newman Center Seminar on Marriage, "The Theology of Marriage and Sexuality." Sister Margaret Marie Virr, graduate student at St. Louis U. Newman Center, 6525 Forsyth Blvd.

Wednesday, Feb. 8
11:30 a.m. Assembly Series Lecture with Mara Angelou, author of I Know Why the Caged Bird Sings, authoring her own work. Sponsored by Chimes and Campus Bookstore. Graham Chapel.

Thursday, Feb. 9
4 p.m. Department of Philosophy Colloquium, "Theism and the Problem of Evil." George Stalder, Dept. of Philosophy, Cor nell U. Brown Lounge.
Saturday, Feb. 11

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Friday, Feb. 10
10:30 p.m. Hockey, WU Hockey Club vs. St. Louis Community College at Meramec. Askoff Rink.
Saturday, Feb. 11
11 a.m. Women's Swimming, WU vs. Grinnell College. Forest Park Community College.
9:30 a.m. Men's Basketball, WU vs. DePauw University. Francis Gym.

Calendar Deadline
The deadline to submit items for the Feb. 23-March 3 calendar of the Washington University Record is Feb. 9. Items must be typed and state date, time, 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 1142.