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NASA Scientist To Head WU Department

Larry A. Haskin, Chief of the National Aeronautics and Space Administration's Planetary and Earth Sciences Division, Johnson Space Center, will assume the chairmanship of WU's Department of Earth and Planetary Sciences on November 1, it was announced today by Chancellor William H. Danforth. Haskin succeeds Harold L. Levin, who was appointed to the newly created post of Faculty Coordinator for Pre-professional Advising last July 1.

"A nationally known scientist in the field of geochemistry, Larry Haskin also has outstanding credentials as an administrator and teacher," Dr. Danforth said. "His addition to our faculty greatly enriches both our Earth and Planetary Sciences Department and the space sciences interdisciplinary program in general at Washington University."

Before joining NASA in 1973, Haskin was professor of chemistry at the University of Wisconsin. In his 13 years on the Wisconsin faculty, he taught both beginning level and graduate courses, ranging from analytical chemistry to nuclear and radiochemistry.

The NASA division, which Haskin directs at the Johnson Space Center, Houston, Texas, is responsible for guiding the agency's scientific program related to the exploration of the moon, the solid planets such as Mercury, Venus, Earth and Mars and the asteroids. Haskin's research specialties include studies of trace elements, especially the lanthanide series, in lunar and terrestrial materials as well as in meteorites. One of the principal goals of such studies is to discover chemical processes common to the evolution of the solar system and its planetary bodies.

Haskin's scientific honors include NASA's Exceptional Scientific Achievement Award in 1971 and a Guggenheim Fellowship in 1966 to study at the Max Planck Institute for Nuclear Physics, Heidelberg, Germany. A graduate of Baker University, Baldwin, Kansas, he received his Ph.D. degree in physical chemistry from the University of Kansas. He has served on NASA's Physical Sciences Committee, the Jet Propulsion Laboratory's Terrestrial Bodies Science Working Group and the U.S. National Committee on Geochemistry.

He and his wife, Mary, have three children, Jean, Rachel and Dierk.

1100 in Freshman Class; Academic Rating is Outstanding

This fall's freshman class at WU is expected to be about 1100 students, slightly more than the target goal set by the Admissions Office. Overall enrollment of undergraduate and graduate students in the full-time divisions will be about the same as last year's total of 8600 students, according to Acting Registrar Richard Young.

David S. Luecke, Associate Vice Chancellor for Educational Services, said that WU achieved both its goals in class size and quality. Last year's enrollment of 1185 freshmen was a record number, and the target for this year's class was lowered because of limited dormitory space. The most important factor about the class, Luecke pointed out, is that once again its academic credentials are high: the average of the College Board Scores rank in the 88th percentile of the national distribution, (the same as last year); 59 per cent ranked in the top ten per cent of their high school classes; and 75 freshmen are National Merit Scholars. "These figures simply show that the University continues to compete successfully with the nation's top institutions in attracting students with outstanding academic records," Luecke said.

William Turner, who succeeded Luecke as Admissions Director last July 1, said that as of August 20 there were 1118 paid deposits for the freshman class; because of last-minute withdrawals, the number enrolled will be about 1100 The expected breakdown by school is: Architecture, 51; Business, 60; Engineering, 212; Fine Arts, 75 and the College of Arts and Sciences, 705.

The geographic distribution is significant in that it repeats last year's shift to greater proportions of students from the Midwest and Southwest and a decrease in students from eastern states. Students from the metropolitan area—within a 25 mile radius of St.
Sixty Million Dollar Grant Matched; Fund-Raising Efforts Are Intensified

Although WU surpassed its $120 million development goal this summer by matching the Danforth Foundation challenge endowment grant with $61.6 million in gifts and pledges from private sources, intensive fund-raising efforts are continuing.

George H. Capps, Trustee and Chairman of the University's Development Committee and Major Gifts Committee, said several major objectives of the University remain unfunded including $20 million for endowment, $5 million for restoration of major buildings, and $5 million for scholarships.

"As in any fund-raising program," said Capps, "gifts are not always made in direct response to each of the University's development priorities. Many gifts are earmarked by donors for specific research, fellowships or buildings. While these funds are welcome, because they match a donor's interest with University programs, we sometimes do not find donors for equally urgent needs.

"Vigorous work must, therefore, continue to find support for these essential projects as well as for the ongoing programs of the University," Capps said. "And of course," he added, "our new and higher level of annual giving must be sustained to keep our regular academic programs excellent and our budget balanced."

Continued private support of the University is essential in enabling the University to meet changing needs of students and faculty, WU Chancellor William H. Danforth said. "The hallmark of the very best universities is their ability to grow, to respond to change," he said.

"The splendid support given to the University during the past three years has permitted many significant innovations in our efforts to meet the current needs of our students and community," the Chancellor said. Among them, Danforth pointed out, are Mallinckrodt Center and Edison Theatre, the establishment of the McDonnell Center for Space Sciences and the creation of 63 new named scholarships and loan funds, and four new named professorships.

Danforth said he was very gratified with the role alumni contributions played in aiding the University reach its $60 million goal. During the past three years, he said, alumni annual gifts increased from $5,900 to 11,000, totalling $10 million. Other sources of contributions making up the $61.6 million given to WU are: trustees, $6.6 million; other individuals, $15.5 million; corporations, $15.2 million; foundations, $7.6 million; other organizations, $6.7 million.

Of the $51.6 million, $29.7 million will be used for capital purposes, including plant endowment funds, and $31.9 million will be used for special projects, academic programs and ongoing expenses. The $60 million from the Danforth Foundation will become a permanent part of the University's general endowment according to the terms of the challenge grant. Income from this endowment will aid in sustaining existing programs which in recent years have been supported by the Foundation on an annual basis.

George Kassabaum Appointed Washington University Trustee

George E. Kassabaum, one of the founders, President, and Principal-In-Charge of Production and Construction Services, Hellmuth, Obata & Kassabaum, Inc., of St. Louis, has been appointed a trustee of WU.

Kassabaum earned his bachelor of architecture degree from WU's School of Architecture in 1947. He is a member of the WU William Greenleaf Eliot Society and previously was a founding member of the WU College of Fellows. In 1950, he joined the firm of Hellmuth, Yamashita and Leinweber as an associate in charge of production and construction services. Kassabaum and Gyo Obata joined George F. Hellmuth to establish the Hellmuth, Obata and Kassabaum organization in 1955. HOK has offices in nine American cities and commissions throughout the world. On the WU campus, HOK designed the residential center complex on the South Forty.

Kassabaum holds the certificate of registration granted by the National Council of Architectural Registration Boards, and is registered in 15 states and the district of Columbia. He is an Honorary Fellow of the Royal Architectural Institute of Canada, the Sociedad Columbiana de Arquitectores, and La Sociedad de Arquitectos Mexicanos.

He is active in many civic and professional organizations including the American Institute of Architects, serving as its national president and vice-president of the St. Louis Chapter. He is Vice Chancellor of the Institute's College of Fellows.

Merle Kling Named Provost of WU; New Dean Sought

Chancellor William H. Danforth is consulting with a wide range of individual faculty members and organizations about a replacement for Merle Kling, Dean of WU's Faculty of Arts and Sciences, who has been named Provost, or chief academic officer of the University. Kling will continue to serve in his present position until a replacement for him is found, "hopefully early this fall," Danforth said.

Kling, who has served as Dean of the Faculty of Arts and Sciences since 1973, was appointed Provost this summer. "Merle Kling emerged as the ideal choice for this critical administrative position to which all academic units of the University will report," Chancellor Danforth said. "He has been an outstanding dean, teacher and scholar and has earned great respect from all segments of the University community. He has a deep commitment to academic standards which is complemented by a profound concern for each individual as a human being."

A member of the faculty since 1946, Kling also served as Dean of the Faculty of Arts and Sciences from 1966 to 1969, when he returned to full-time teaching and research. His academic work has been concentrated in the field of comparative politics. A professor of political science, he has served as president of the Midwest Political Science Association and as editor of the American Journal of Political Science.

He is the author of numerous articles on Latin American politics, and of two books, A Mexican Interest Group in Action and The Soviet Theory of Internationalism. In 1967 he was a principal founder of Washington University's Latin American Studies Program.

Dean Kling holds the Doctor of Philosophy degree from WU. In 1964, the WU Alumni Board of Governors awarded him a Faculty Citation for outstanding teaching ability. He has been a Visiting Professor at the University of the Americas in Mexico and at the University of Illinois. He also served as a Research Associate at the Center of International Studies, Princeton University.

DR. W. EDWARD LANSCHE, instructor of clinical orthopedic surgery at the WU School of Medicine, is the new president of the Medical Center Alumni Association. The past-president was Dr. George B. Rader, instructor in clinical surgery.
Biologists may consider the Viking project a disappointment since no life forms have been discovered so far, but Raymond Arvidson, associate professor of earth and planetary sciences and one of WU's three-man team on the project at the NASA Jet Propulsion Laboratory at Pasadena, Calif., says that from "a geological point of view the robot probings of Mars have yielded a bonanza."

Arvidson, on campus briefly in mid-August before returning to the West Coast, spoke elatedly about the findings he and 19 fellow team members on the Viking Lander Imaging Flight team have made. Assisted by WU colleagues, Edward Guinness and Marcello Coradini, Arvidson has had a front row seat at what has been described "as the greatest picture show on earth."

Scrutinizing the photographs which have been radioed back to earth from Mars by dual facsimile cameras mounted on the first Lander which touched down on Mars July 20, Arvidson said geologists have been able to learn a great deal about the soil of Mars and its chemistry. "Of particular interest," he said, "is the interaction of Mars' atmosphere and the sun's radiation with its soil. On Mars, unlike on earth," Arvidson said, "ultra-violet radiation penetrates the surface and causes a chemical reaction." Precisely what this reaction is has not been determined, he explained.

Arvidson also noted that planetary scientists are most curious about the total amount of water bound up in the minerals of Mars. "When a planet degasses or differentiates," he said, "it gives off water, carbon dioxide and other gases. Measurement of how much water such minerals contain can provide important clues about Mars and its geological history."

"Camera data," he added, "indicates that the surface coating of Mars is iron hydroxide, known in geological circles as limonite." It accounts for Mars blushing color—a pinkish reddish hue.

Lander Number One (its twin is scheduled to surface on Mars on Sept. 3) came down on Mars' Chryse Planitia, or the golden plains, only 17 seconds behind schedule. Mars owes its fanciful names to astronomer Giovanni Schiaparelli, so-called Father of Mars, who borrowed the names from classic Greek literature.

The West Coast Viking "arm-chair" explorers are less romantic. They called the odd-shaped rocks, "the Midas Muffler" and "Volkswagen." Some of the formations are boulders that may be meters in diameter, while the largest rocks near the Lander are only four to six inches across.

What Arvidson and his office partner, Carl Sagan, and the rest of the Imaging Team are doing these days is planning what kinds of pictures to take next, and analyzing those they have. Deciding what to photograph when, and then interpreting the results is an enormously complicated task and generally takes about 17 days of meticulous calculation.

"We have to make sure that we get lots of color and infra-red imagery," Arvidson said, "if we are to accomplish the second part of our assignment, which is analysis of the mineral content of Mars' surface."

The team members want to know where the Mars rocks come from. "We are trying to figure out," Arvidson said, "if the craters we see from the Lander were formed by meteoroids and comets impacting Mars with enormous energy." He explained such knowledge would provide information about the types of rocks catapulted to the surface, and how they were formed. Over a period of many months, "we should be able to figure out how many rocks surged during cratering events," he said.

But what happens if the rocks have not been excavated by craters? Arvidson laughed, "That's a good question. It might be very difficult to ascertain other processes that could have led to their formation."

There's plenty of time for such considerations, though, for the Landers on Mars are powered by radio isotopes which theoretically can operate for 10 years. During the next year or so, Arvidson speculated that he and many other Viking veterans might shuttle back and forth between the classroom and the JPL to come up with the answers to the questions we still ask about earth—how was the planet formed and when?
World-Renowned Cellist, Janos Starker, To Open New “Music at Edison” Series

“Music at Edison,” a new classical music series, will offer five Sunday evening performances by outstanding artists at the University this year. All performances will begin at 8 p.m. in Edison Theatre.

Janos Starker, probably the most recorded cellist today, will open the season on Sept. 19. He will play Boccherini’s “Adagio and Allegro from Sonata in A Major,” Bach’s “Suite No. 3 in C Major for Unaccompanied Cello,” Brahms’ “Sonata in D Major, Op. 78,” and Bartok’s “First Rhapsody (1928).”

Dutch soprano Elly Ameling, acclaimed in the New York Times as “enchanting, ... as winning and intelligent a lieder (art song) singer as we have today,” will present the series’ second concert Oct. 31. She will feature songs by Mozart, Schubert, Martin, Faure and Satie.

The schedule of the remaining performances is: Nov. 28—Orpheus Trio, flute, viola and harp; Jan. 23—Contemporary Chamber Ensemble conducted by Arthur Weisberg with guest soloist, Jan DeGaetani, mezzo; and Feb. 6—LaSalle Quartet.

Series subscription tickets, now on sale through September 19, are $20 for the general public; $16 for WU faculty and staff; and $10 for WU students. Tickets may be purchased at Edison Theatre Box Office or by mail. Mail orders should be sent with a stamped, self-addressed envelope to “Music at Edison,” Washington University, Box 1119, St. Louis, Mo., 63130. Make checks payable to Washington University.

Individual tickets will go on sale Sept. 13. Prices are: general public, $5; WU Faculty/Staff, $4; and WU students, $2.50. For more information, call 863-3160 or ext. 4113.

Catalytic Converters May Cause New Health Hazard

Sulfuric acid produced by cars equipped with catalytic converters may pose a health threat to motorists in rush hour traffic, Edward S. Macias, associate professor of chemistry at WU, reported at the 172nd meeting of the American Chemical Society held in late August in San Francisco.

The report was based on the results of pollution-related research which was part of the Sulfate Dispersion Experiment sponsored by General Motors Corporation at Milford, Michigan, last fall. The WU team headed by Macias included Robert A. Fletcher, a technical associate in the Chemistry Department, and Janja and Rudolph Husar, research associate and associate professor, respectively, in the Mechanical Engineering Department.

“Every effort was made to simulate highway conditions expected in 1982 during rush hours,” Macias said. “Testing and evaluations were done by determining the particulate sulfur emission rate from a roadway traversed by 352 catalytic converter cars using lead free gasoline which contains about 0.3% sulfur.”

The researchers found that under these conditions the cars emitted approximately 13 per cent of the sulfur in the gasoline they burned as particulate sulfur, thought to be in the form of sulfuric acid. Sulfuric acid, Macias said, is potentially a health hazard, particularly for those suffering from respiratory illnesses. Although the conversion of fuel sulfur to sulfuric acid was less than originally predicted by some experts, Macias said it still could constitute a health hazard for commuters in these automobiles traveling during rush hour. He also noted that people at 30 meters or more from the freeways would not be affected seriously because the particulate sulfur concentration is much reduced at that distance.

The team plans to carry out further experiments in Los Angeles on a busy freeway this fall.

Freshmen (Continued from page 1)

Louis—also stayed at about the same level, 23.7 per cent.

The geographic breakdown by region for current freshmen is: New England area, 6 per cent; Mid-Atlantic, 21 per cent; Southeast, 8 per cent; North Central, 27 per cent; Southwest, 9 per cent; Far West, 6 per cent, and Missouri, 23 per cent.

Benjamin Sandler, Director of the Financial Aids Office, reported that close to 40 per cent of the freshman class is receiving financial aid from the University. The amount of the awards range up to and beyond full tuition.
Monsanto Company To Build Laboratory in West End

A $12 million biological research and testing laboratory will be constructed by Monsanto Company near the WU Medical School John W. Hanley, chairman and president of Monsanto and WU board of trustee member, recently announced.

The laboratory, which will be located at Newstead and Clayton Avenues, is the second major construction project planned in the area being developed by the WU Medical Center Redevelopment Corporation. The first, the $12 million Blue Cross Headquarters, which will employ about 2500 employees, is presently under construction.

The laboratory will employ approximately 50 people, 23 of whom will be professionals in various scientific disciplines. It will be used to test the medical and environmental effect of present and future Monsanto products, raw materials and chemical intermediaries. It is also expected to permit collaboration on research and educational projects by Monsanto scientists and University Medical School faculty. Completion of the facility is scheduled for mid-1978.

NEWS BRIEFS

BILL MAULDIN, syndicated political cartoonist, will speak on “The Role of the Political Cartoonist” at the Wednesday Assembly Series Lecture, September 8 at 11 a.m. at Graham Chapel. Mauldin, whose cartoons appear in over 300 publications, is an editorial cartoonist for the Chicago Sun-Times.

KWUR, WU’s CAMPUS RADIO STATION, 90.3 on the FM dial, is now broadcasting daily from 7 a.m. until midnight. The range of the station, located in the basement of the Women’s Building, is one and one-half to three miles. Programming will include: music, from classical to progressive rock; series on UFO’s, life in cities and Canadian musicians, all produced by the Canadian Broadcasting Corp.; and the Graham Chapel Assembly Series lectures. A monthly listening guide will be available in late September. Students interested in working at the station on a voluntary basis should call 862-3903, or should stop by the station during broadcast hours.

The WU Record is published weekly during the academic year by the Information Office. Editor, Janet Kelley; calendar editor, Charlotte Boman. Address communications to Box 1142.

ANNOUNCEMENTS

WU AND THE ST. LOUIS FILM ART SOCIETY, is now offering season tickets for the 15 films to be shown during the 1976-77 academic year. The price is $17.00 per person. The series will begin on Sept. 10 with “Ninotchka,” a comedy starring Greta Garbo. All films are shown at 8 p.m. Fridays and at 2 p.m. Sundays in Steinberg Auditorium. Season tickets should be purchased before Sept. 10. Checks made out to Washington University may be sent to W.U., Film Art Society, Box 1099. General admission tickets for individual films are $1.50; for students with I.D.’s, $1. For further information, call 863-0100, ext. 4261.

THE WU JAZZ BAND will hold auditions for the 1976-77 school year on Monday, Sept. 6, and Wednesday, Sept. 8, from 5:30 to 7:00 p.m. at Tietgens Music Studio. John Brophy will direct the program. Auditions are open to all students, faculty and staff. For further information, call ext. 4582.

TOURS OF THE WU TYSON RESEARCH CENTER will be conducted by Richard Coles, the Center’s Director, on three weekends this fall for members of the WU community and their families. The Center, located near Eureka, Mo., is a research facility for a variety of plant and animal biological studies. The Center is generally not open to the public and these tours are being offered on an experimental basis to acquaint the University community with the facility. The tours, which will take about two and one-half hours, are scheduled for: Sunday, Sept. 12 at 1:30 p.m.; Saturday, Oct. 2 at 10 a.m.; and Sunday, Oct. 10 at 1:30 p.m. Tour groups will be limited to 25. To register for the tours, call Mrs. Palmer at 938-5346, Monday, Wednesday, or Friday.

Sept. 13 to offer workshops, lecture demonstrations, and lead master classes.

Tickets for the Cohen-Johnson performances are available at the Edison Theatre Box Office in Mallinckrodt Center. Prices are: general admission, $4.50; WU faculty/staff, $3.50; WU students, $2; and other students, $3.50. Fifteen events, ranging from Shakespeare to mime to comic opera, are scheduled for Edison Theatre’s 1976-77 season. Season passes are available for members of the WU community at the following prices: WU faculty/staff, $30; WU students, $15. For further information, call ext. 4113.
Wednesday, September 8

4 p.m. Women's Programming Board Meeting to plan program of lectures, films, concerts, and workshops for coming year. All interested students, faculty and staff welcome. Women's Bldg., 3rd floor. For further information, call Susan Cornillon, ext. 4541.

Thursday, September 9
2:30 p.m. Department of Mechanical Engineering Seminar, "The Lateral Buckling of Slender Beams: A Historical Perspective," David A. Peters, ass't prof. of mechanical engineering, WU. Cupples II.


Films
Friday, September 3

Saturday, September 4
8 p.m. Office of Campus Programming Film Series-Cinema of the Forties, "Citizen Kane" with Orson Welles, and "All the King's Men," with Broderick Crawford. Wohl Center Line D. Admission $1.

Sunday, September 5
8 p.m. WU Filmboard Series, "Love and Death." Admission $1.25. Wohl Center Line D.

Tuesday, September 7
12 p.m. Women's Programming Board—Tuesday Noon Film Series, "We the Women," a history of American women from colonial times through the present narrated by Mary Tyler Moore, and "And Everything Nice," a short film about modern women's roles, narrated by Gloria Steinem. Women's Bldg., lower level.


Wednesday, September 8
7:30 and 9:45 p.m. WU Filmboard Series, "Swept Away," directed by Lina Wertmuller. Admission $1.25. Brown Hall Theatre. (Also Thursday, Sept. 9, Brown Hall.)

Music
Thursday, September 4
10:30 p.m. S-40 Programming Board, Office of Campus Programming blues cafe, featuring the Blues Eldorado Band. Bear's Den Patio

Exhibitions
"The American Show," featuring major American works of art of the past 150 years. Artists represented include Bingham, Bellows, Cassatt, Rauschenberg, Prendergast and Pollock. Steinberg Gallery, lower level. Also, selections of European art from the University's collection. First floor gallery. 9 a.m.-5 p.m. weekdays; 10 a.m.-4 p.m. Saturdays; 1-5 p.m. Sundays. Through Sept. 12.

"A William Faulkner Exhibit," the most complete private collection of limited edition and inscribed works including early stories and poems. Lent by L. D. Brodsky, WU alumnus. Olin Library, level 5. 8:30 a.m.-5 p.m. Mon.-Fri. Through Oct. 15.

"Work and Teaching of Auguste Perret," an exhibition of drawings, photographs, and building plans relating to the work of this French architect, known for his cast-iron buildings, on the centennial of his birth. Circulated by the N.Y. French Institute—Alliance-Francaise. Givens Hall, first floor. 8 a.m. to 10 p.m. daily. Through Sept. 22.

WU Medical School Faculty will participate in the St. Louis Public School's Magnet School Program. Faculty will aid in the development of programs and in teaching at the Investigative Learning Center, Stix Elementary School, 226 S. Euclid Ave. The school's program will include all subjects, but science will be emphasized. Facilities at the Medical School, such as anatomy laboratories, will also be made available to students in the program. Monsanto Company scientists are also participating in the program. Approximately 50 more students can be accommodated in the program. For information, call the Medical School, 454-3166 or 454-2515.

A SERIES OF NINE SHORT COURSES, with the earliest beginning Sept. 22, are being offered by the Office of Continuing Education this fall in its annual Arts, Humanities and Science Series. Astronomy, the paradox of fear in relation to creativity and incapacity, American music, and recent African history are among the topics on which these courses will focus. A credit option through Independent Study in University College is now available for individuals wishing to take these courses for college credit. For further information, call Jean Pennington, ext. 4261.