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Wearing a laurel wreath given to him by friends, Howard Nemerov gives his first public reading since being named poet laureate designate of the United States at the Commencement exercises May 20. The Library of Congress announced his appointment four days earlier.

'A splendid honor,' says Nemerov of poet laureate post

Howard Nemerov, the Edward Mallinckrodt Distinguished University Professor of English at Washington University, has been named the 1988-89 poet laureate consultant in poetry to the Library of Congress, or more commonly known as the poet laureate of the United States.

Nemerov called the award, announced by Librarian of Congress James H. Billington, "a splendid honor." He is the third poet to achieve this designation, succeeding Robert Penn Warren of Fairfield, Conn., 1986-87, and Richard Wilbur of Cummington, Mass., 1987-88. Nemerov becomes poet laureate in September.

Nemerov won the Pulitzer Prize for Poetry and the National Book Award in 1978 for *The Collected Poems of Howard Nemerov* and the Bollingen Prize for Poetry in 1981. In 1987 he also won two distinguished awards. He was one of 12 recipients of the National Medal of Arts, presented by President Ronald Reagan, and was the first recipient of the Aiken/Taylor Prize in Poetry, presented by The Sewanee Review and the University of the South.

"What an appropriate honor. We can all learn from Howard Nemerov," says Chancellor William H. Danforth. "He sees the world clearly and expresses his vision with beauty."

Nemerov has written 25 books, including poetry, short story and essay collections, and three novels. His most recent books were both published in 1987: *War Stories: Poems About Long Ago and Now*, University of Chicago Press, and *The Oak in the Acorn: On Remembrance of Things Past and On Teaching Proust, Who Will Never Learn*, Louisiana State University Press.

He is a member of the American Academy of Arts and Letters and National Institute of Arts and Letters and was elected a chancellor of the Academy of American Poets in 1976. He is a fellow of the American Academy of Arts and Sciences and a Phi Beta Kappa (honorary), Alpha of Massachusetts. Nemerov holds nine honorary degrees.

He will occupy the position of consultant in poetry to the Library of Congress that was created in 1936. The chair, established with an endowment from the late Archer M. Huntington, was changed by a provision of Public Law 99-194 and enacted in December 1985, which recognized that the library position be redesignated as "Poet Laureate Consultant in Poetry."

Nemerov also held the title consultant in poetry to the Library of Congress in 1963-64.

As poet laureate, Nemerov will give a public poetry reading and a lecture during his tenure, will advise the Library of Congress on its literary programs, and will recommend new poets to be recorded for the Library's Archive of Recorded Poetry and Literature. In addition he will be available, with the approval of the Librarian of Congress, for service to other government agencies for particular ceremonial occasions, to the extent possible.

The poet earned his bachelor of arts degree in 1941 from Harvard University. He was a visiting professor at Washington University in 1969-70 before joining the faculty in 1970.

Continued on p. 2

Fine-tuned

New digital hearing aid is 'Cadillac of the field'

Researchers at Washington University have developed a revolutionary digital electronic hearing aid that will provide the most advanced, comfortable device on the market for the nation's 20 million people with mild to severe hearing loss.

Robert E. Morley Jr., D.Sc., associate professor of electrical engineering at Washington, and A. Maynard Engbretson, D.Sc., a speech researcher at the Washington University Medical Center's Central Institute for the Deaf (CID), have developed a digital electronic system involving 30,000 transistors contained in two small chips. The chips will be encased inside a moisture-proof plastic aid, similar to conventional units, that can be worn either inside or outside the ear.

The aspirin-sized chips perform all the mathematical functions needed to convert and adjust sound for a comfortable "fit" between a patient's hearing and pain threshold curves. 3M Corporation plans to mass-market the hearing aid within a few years. No digital aid is currently available to consumers.

"Each year 30 percent of all hearing aids sold in the United States and Canada go to people who already have a device," Morley says. "It's a restless market looking for a good solution, which we think we can provide."

The advanced electronic circuitry of the new aid, which has been tested extensively on patients, will make music sound better, eliminate background noise and allow users to distinguish tones far greater than they have been able to with conventional aids.

Customer dissatisfaction is at the root of the repeat-buyer syndrome in the hearing aid market, says Morley.

Analog, or conventional systems, while often adequate in boosting the

hearing capabilities of those severely impaired, are notorious for their limitations in distinct amplifications of sound and their annoying feedback oscillation — a screeching sound familiar to anyone who has been near a misadjusted public address system with

excessive overamplification. And analog components, like body parts on an automobile, age with time, changing the fit of the hearing aid.

The parts of the new digital device are fine-tuned by the digital signal

Continued on p. 8

Evens, White named vice chancellors

Ronald G. Evens, M.D., director of the Mallinckrodt Institute of Radiology, will assume the additional duties of vice chancellor for financial affairs, and Gloria W. White, currently associate vice chancellor for personnel and affirmative action, will be promoted to vice chancellor effective immediately, according to Chancellor William H. Danforth.

Evens, who also serves as head of the School of Medicine's Department of Radiology and as Elizabeth E. Mallinckrodt Professor of radiology, recently completed a 2 1/2-year term as president of St. Louis Children's Hospital.

White has been head of the Washington University personnel office since 1975 and has just completed a term in 1987 as national president of the College and University Personnel Association (CUPA).

"Ron Evens has demonstrated exceptional leadership in not only his role as head of the nation's largest department of radiology, he also brought valuable leadership to Children's Hospital at a time when its financial situation would benefit from innovative and fiscally sound management," Danforth noted.

"Gloria White has been the vital factor in the strengthening of our administrative and staff personnel programs, affirmative action, and our

employee benefits," Danforth said.

"Both individuals can make an important contribution to Washington University at a time when we are working to assure that all units of the University can better understand the resources we have available and how they should best be used," he added.

A native of Herculaneum, Mo., Evens received his bachelor's degree in economics and then his medical degree from Washington University. Graduating first in his medical school class, he trained at Barnes Hospital and Mallinckrodt Institute of Radiology, where he was chief resident, and later completed a Picker fellowship in the graduate schools of business administration and education at Washington.

In 1971, at the age of 31, Evens was named head of the Department of Radiology at Washington's School of Medicine. He has served as president of the Society of Chairmen of Academic Radiology Departments, the Missouri Radiological Society, and as a member of many committees for the American Medical Association, the National Academy of Sciences, and the National Institutes of Health.

He was the first Missourian to head the medical radiation advisory committee of the U.S. Food and Drug



Sunshine and smiles: Basking in the glow of a sunny spring morning, these graduates were all smiles at Commencement May 20. Some 1,851 students were awarded degrees in the ceremonies, which were held in Brookings Quadrangle.

Minority high schoolers to study entrepreneurship at business school

The John M. Olin School of Business and the Urban League of Metropolitan St. Louis will sponsor a Minority Youth Entrepreneurship Program for St. Louis region high school students, Robert L. Virgil, D.B.A., dean of the school, has announced.

The purpose of the program is to encourage minority youths to seek careers in business and eventually to become owners and operators of their individual enterprises.

Approximately 25 juniors from area high schools will participate at no cost in an eight-week program that will begin June 15, 1988. Each student will receive a modest stipend.

James H. Buford, president and chief executive officer of the Urban League, and three prominent black business leaders were instrumental in establishing the Minority Youth Entrepreneurship Program in St. Louis.

The group includes: Ronald L. Thompson, chairman of the board and president of General Railroad Equipment and Services Inc. and a Washington University trustee; Paul L. Miller Jr., president of P. L. Miller & Associates Inc. and a Washington graduate and trustee; and James Rivers, a franchise owner of McDonald's restaurants.

Virgil said that the University "will be working with individuals who believe strongly in the importance of stimulating at an early age the interest of minorities in business ownership. The program will give the business school an excellent opportunity to make a contribution to St. Louis' minority communities."

The Urban League will assume responsibility for the selection of students. Buford said, "The Urban League is proud to be associated with Washington University in a program of substantial benefit to minority students as well as to the general metropolitan community. This partnership will result in a role model that I hope will be emulated in other major metropolitan areas."

Buford, Miller, Rivers and Thompson will work on the program's advisory committee, assisting with the

academic direction of the program, coordinating entrepreneurship class activity, and helping with fund raising. Total gift support to date for the entrepreneurship program is \$250,000 over five years representing commitments from Rivers, Miller and Thompson. Rivers made a five-year gift commitment of \$100,000. Miller pledged \$50,000 in support over five years. General Railroad Equipment and Services Inc.'s board of directors approved a five-year gift commitment of \$100,000.

Gary M. Hochberg, Ph.D., associate dean of the undergraduate program at the business school, will serve as academic director of the program. He will be assisted by Sandra Marks, a 1983 graduate of the school.

Seventy-two hours of instruction will offer a wide range of business courses including accounting, finance, management and marketing. These academic activities, along with an additional 72 hours of seminars, panel sessions and field trips to minority-owned businesses, will result in the students gaining an understanding of the entrepreneur's role in the American economy and a sensitivity to the special circumstances of minority entrepreneurs.

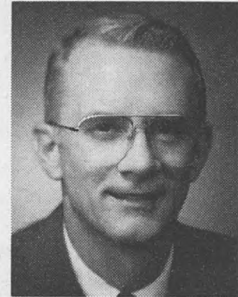
Virgil said the business school also will expose students to state-of-the-art computer operations and other relevant skills.

The school also will host 60 Inroads students this summer. A national organization with affiliates in 34 cities, Inroads develops and places talented minority youth in business and industry. The program begins with a summer precollege component for students between the junior and senior years of high school. For the second summer, the University will provide college-level courses in English and mathematics, as well as developmental skills during the five-week program in John E. Simon Hall. Graduates of the precollege program are advanced to Inroads' college component, which includes corporate internships during the four summers of collegiate study.

Vice chancellors — *continued from p. 1*

Administration's Bureau of Radiological Health. He also serves on the editorial staffs for four radiological journals.

In 1984, Evens was given the Distinguished Eagle Scout Award from the National Council, Boy Scouts of America. He is currently a director, or trustee, of Boatmen's Bank in St. Louis, the Society of Nuclear Medicine, the American Roentgen Ray Society, and the Washington University Medical Center. Due to his interests in business and radiology, Evens has served as a consultant to industry, medical centers, universities and governmental organizations including the National Institutes of Health, the states of New York and California, Congress, and the province of Ontario, Canada.



Ronald G. Evens

He is president-elect of the Washington University Medical Center Alumni Association and the American Roentgen Ray Society and president of the Association of University Radiologists. He is also chairman of the University's provost search committee.

Beginning her career at Washington University in 1967, White first served as associate director of the Upward Bound Program, and then was promoted to director of the office of special projects and the career scholarship program the following year, a position she held until 1974.

In 1972, White was named the University's affirmative action officer, and in 1975 was promoted to director of personnel. Later that year she was named assistant vice chancellor for personnel and affirmative action, and

then in 1981 she became associate vice chancellor.

White is a leader in university human resources management, and has served as president of CUPA and is now completing a term as past-president. She recently was appointed to a three-year term on the TIAA-CREF board of directors. She also serves as a trustee of Blue Cross and Blue Shield of Missouri Inc., and on the board of directors of the St. Louis Rotary Center for Older Adults.

White received her bachelor of arts degree from Harris-Stowe Teacher's College and taught in the St. Louis public schools from 1956 to 1967. She earned her master of arts in counseling and guidance from Washington University in 1963 and then a master of juridical studies from the University's law school in 1980.

Among the many awards and recognitions she has received include the following:

Who's Who of American Women, 1983-84; Who's Who Among Black Americans, 1980; CUPA's Distinguished Service Award, 1983-84; CUPA's Achievement Award for creativity, 1980-81;

and citations from President's Council on Youth Opportunities, 1970; Urban League of Greater St. Louis, 1976; and from the American Association for Affirmative Action, Region VII, 1976.

She is a member of the American Society for Personnel Administration, the Industrial Relations Association, and holds licenses as an Accredited Executive in Personnel, Accredited Personnel Manager, and lifetime counselor and teaching certification from Missouri.



Gloria W. White

Memorial service set for Oliver Wagner

A memorial service for Oliver W. Wagner, former director of admissions and registrar at Washington University, will be held at 11 a.m. Friday, June 3, in Graham Chapel. Wagner died on May 21 at the age of 79.

Wagner joined the University in 1948 as admissions officer. A year later, he was promoted to director of student records. In 1952, he became director of student records and placement. He became registrar and associate dean of dean of admissions in 1960 and five years later became director of admissions and registrar. He retired in 1973.

Wagner received a bachelor's degree in 1931 from Parsons College and a master's degree from the University of Iowa in 1936.

E.B. McDonald, acting dean of admissions, worked for Wagner. "He was a true professional in every sense of the word," he said. "He was instrumental in helping the University bridge the gap from being a streetcar college to a national university."

He was active throughout his career on the College Entrance Examination Board (CEEB) and the CEEB Educational Test Service Committee concerned with admissions testing of minorities.

He also held offices in the National Association of College Admissions Counselors and the American Association of Collegiate Registrars and Admissions Officers (AACRAO). He was an honorary lifetime member of AACRAO. Wagner was chairman and member of the Westlake Scholarship Foundation Educational Committee.

He is survived by two sons, Stephen H.

of St. Louis and Douglas P. of Silver Springs, Md.; and a sister, Mary Alice Gillispie of Iowa, and four grandchildren. Memorial contributions may be made to the General Scholarship Fund at Washington University, Box 1082, One Brookings Drive, St. Louis, MO 63130.

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Editor: Susan Killenberg, 889-5254, Campus Box 1070

Assistant Editor: Fran Hooker, 889-5202, Campus Box 1070

Editor, Medical Record: Joni Westerhouse, 362-8257, Medical School Campus Box 8065

Contributing writers: Debra Bernardo, Joyce Bono, Tony DiMartino, Regina Engelken, Tony Fitzpatrick, King McElroy and Carolyn Sanford

Photographers: Tom Heine, Stephen Kennedy, David Kilper and Herb Weitman

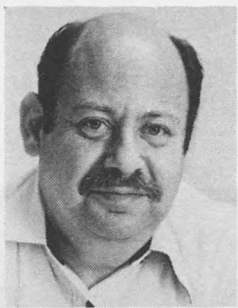
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Herb Weitman

Photographer of the decade



Prize-winning novelist Stanley Elkin, Ph.D., Merle Kling Professor of Modern Letters, at home in University City. This photo, which appeared in the Washington University Magazine in spring 1984, accompanied an article on Elkin, written by friend and colleague William H. Gass, Ph.D., David May Distinguished University Professor in the Humanities and professor of philosophy.



This view of the Gateway One, Civil Courts and Wainwright buildings downtown is one of many city scenes included in *Seeing St. Louis*, a paperback guide published in 1987 that contains black-and-white photos by Herb Weitman.



A summer 1985 Washington University Magazine story and photo essay about dogs on campus included this shot taken in Brookings Quadrangle. This photograph has been acquired by both the St. Louis Art Museum and Washington University's Gallery of Art.

Grand Gold tops decade of excellence

From moving-in day at the dorms, to Commencement ceremonies in Brookings Quadrangle, Herb Weitman, director of Washington University's photographic services, has been on hand to capture these important moments for all the University to see. His work over some 38 years here has brought him national recognition and acclaim. His most recent honor is being named the Grand Gold Medal award winner in the "Photographer of the Decade" competition sponsored by the Council for the Advancement and Support of Education (CASE). Participants in the competition were the leading university photographers in the nation.

Weitman, who also is associate editor of the award-winning Washington University Magazine and adjunct professor at the School of Fine Arts, received a similar honor in 1967 by the American Alumni Council, when he was

presented with a special award "for a decade of distinguished photographic achievement in alumni and university publishing." The following year he founded the School of Fine Arts' photography program.

Weitman will receive the Grand Gold Medal July 11 during the CASE Annual Assembly in Anaheim, Calif. The 25 black-and-white and color photographs of Weitman's that were submitted for the CASE competition will be on display at the assembly. Several of these pictures, all taken during the past 10 years, appear here and on the following three pages.

CASE is the international professional organization for university and college officers in communications, development, government relations, alumni, publications, periodicals and photography. It is the largest of all the higher education associations, with 3,000 member institutions.



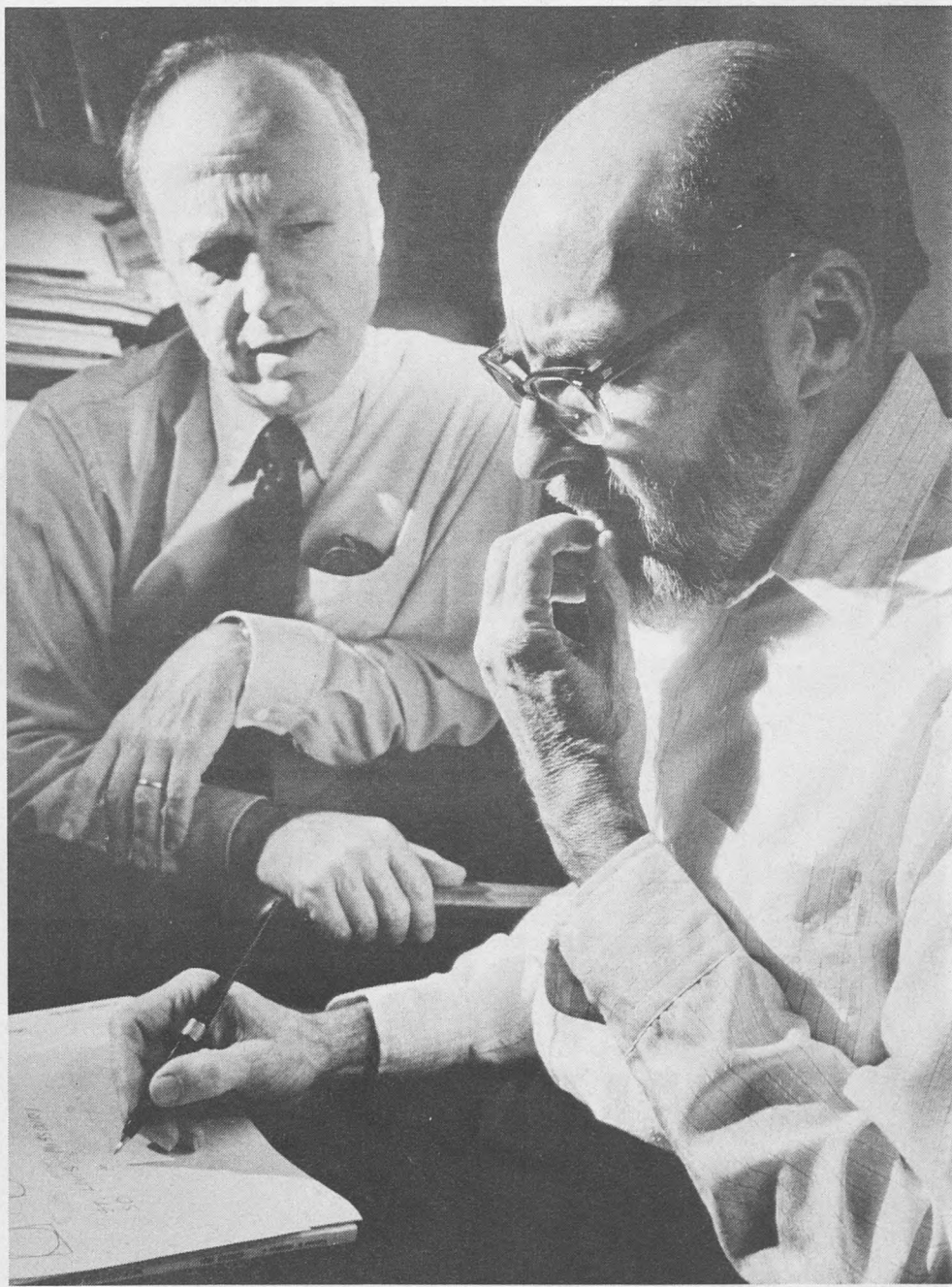
The cover of the December 1980 Washington University Magazine spotlights these students on the steps in front of Brookings Hall.



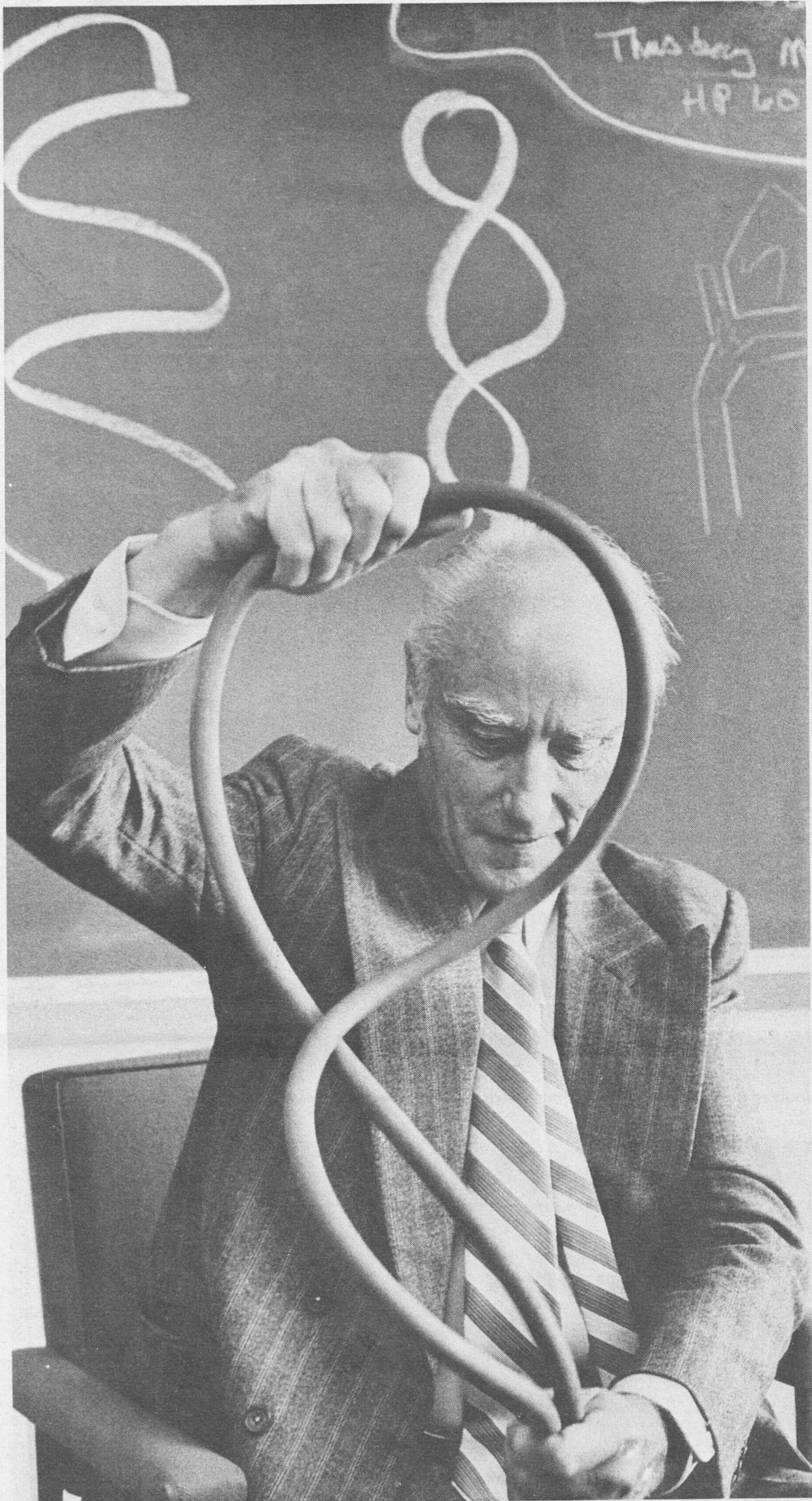
Weitman's color photo titled "Hakka Woman," which was taken in Hong Kong, appeared on the cover of an invitation to the School of Fine Arts Faculty Show in 1977.



4 Then School of Fine Arts senior Ann Lofquist in her Bixby Hall painting cubicle. This color photo appeared in the winter 1986 Washington University Magazine.



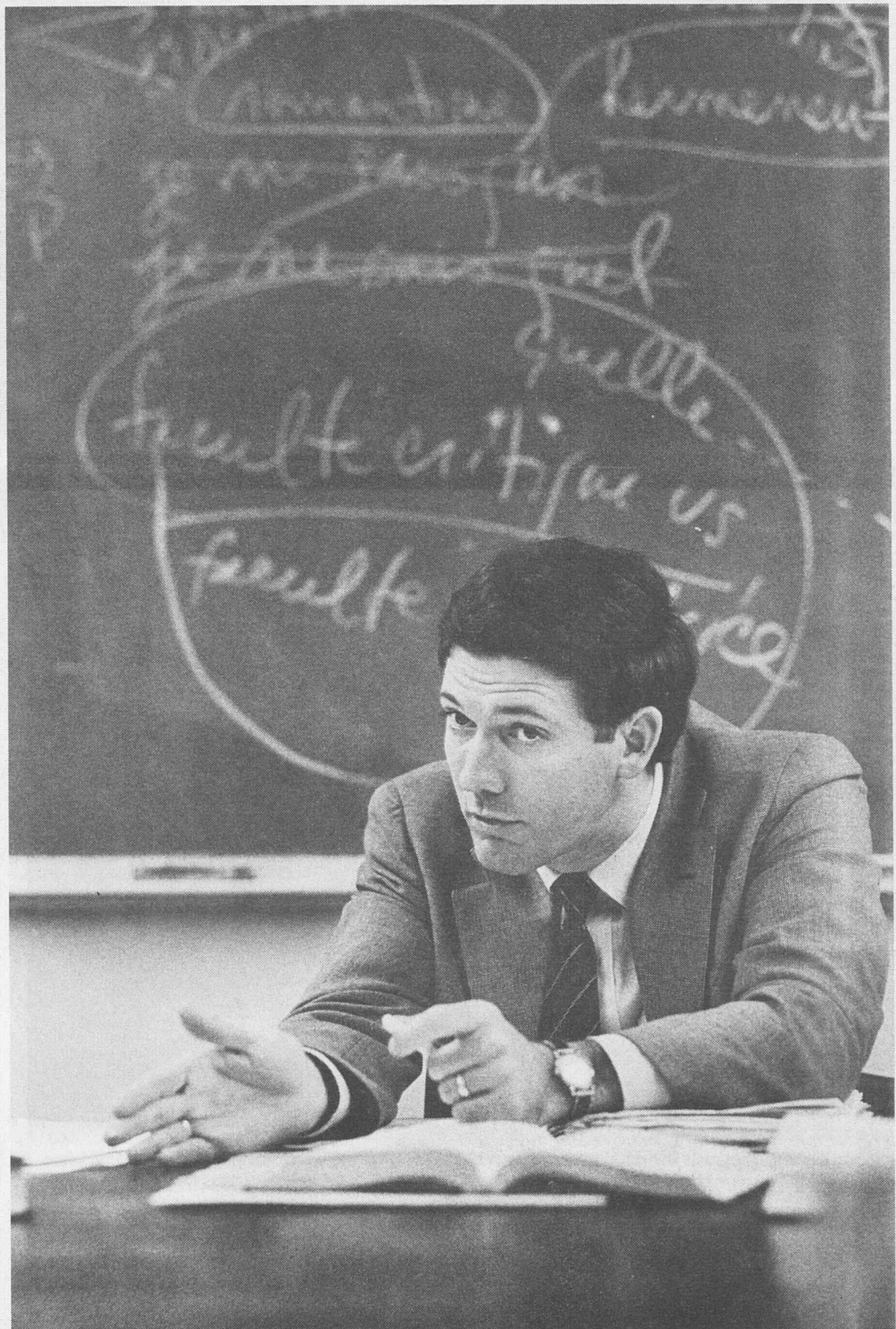
Leonard Berg, M.D. (left), professor of neurology, tests an Alzheimer's patient who was a participant in the Memory and Aging Project. Photo ran in the spring 1985 issue of the Washington University Magazine.



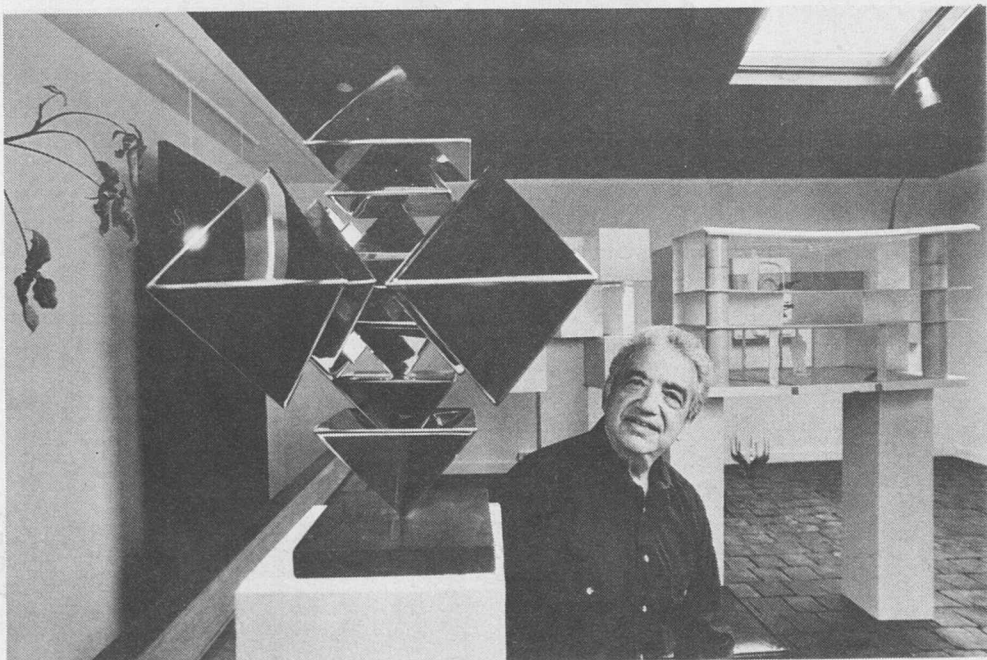
Nobel Prize-winning biologist Francis H. C. Crick, Kieckhefer Research Professor at The Salk Institute, discusses new developments in the study of human DNA. The photo appeared in the spring 1980 Washington University Magazine.



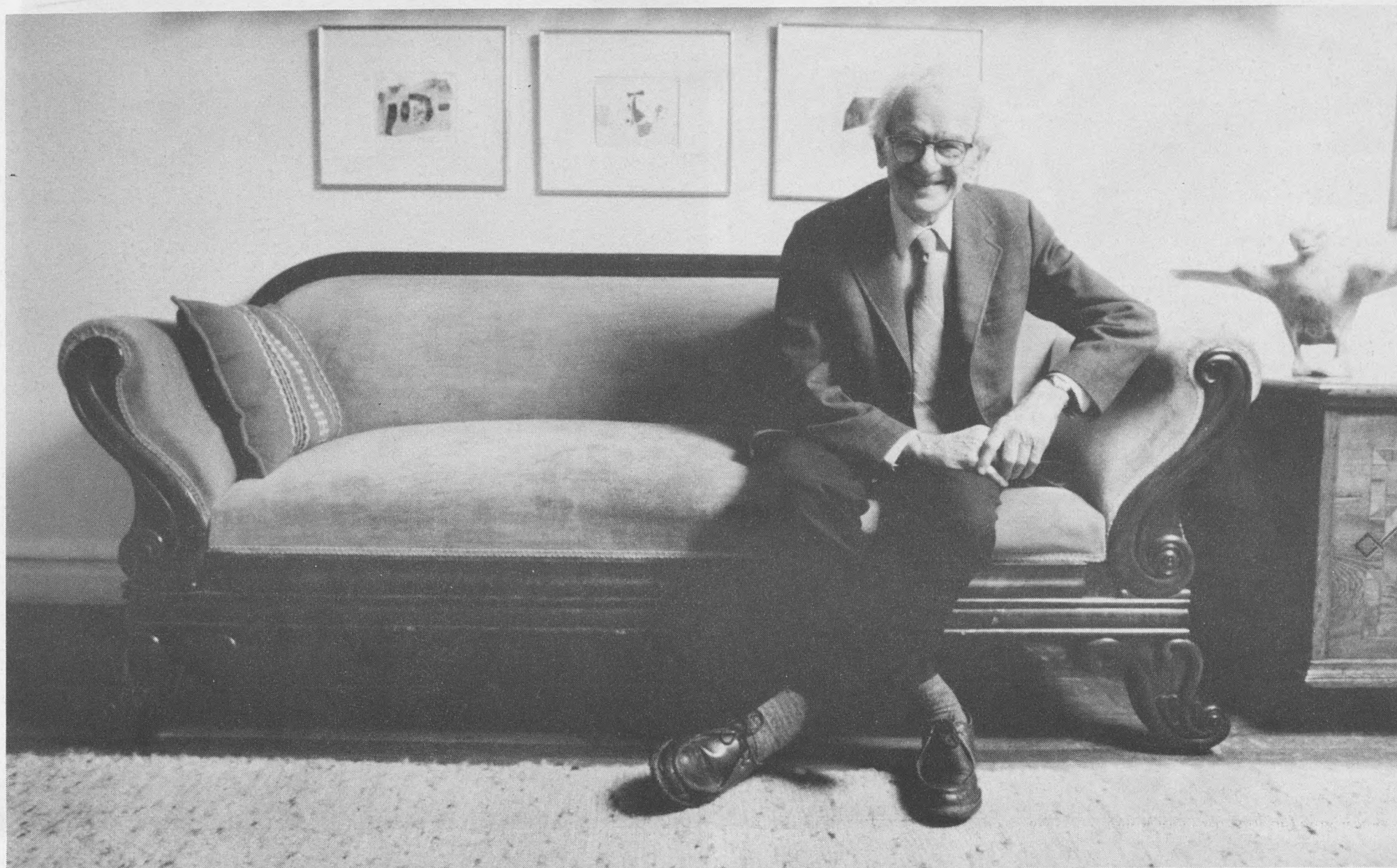
A professional model and a piece of jewelry created and designed by metalsmith Heikki Seppa, professor of art. The photo was included in a photo essay on Seppa's work that ran in the spring 1981 Washington University Magazine.



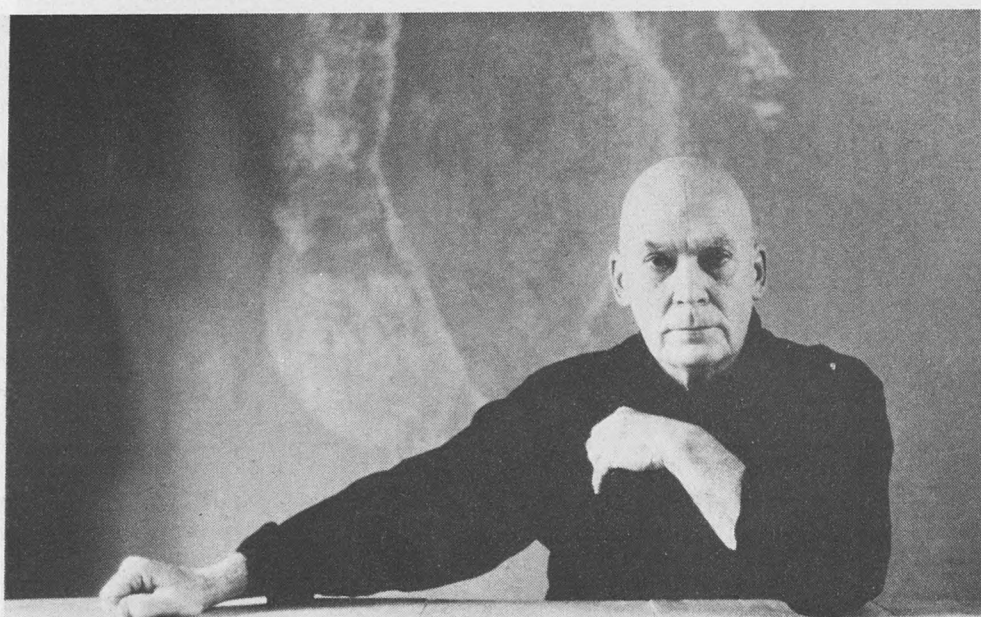
James F. Jones Jr., Ph.D., professor and chair of the Department of Romance Languages and Literatures, was the subject of the photo essay "One Week in a Teacher's Life," which appeared in the winter 1986 Washington University Magazine.



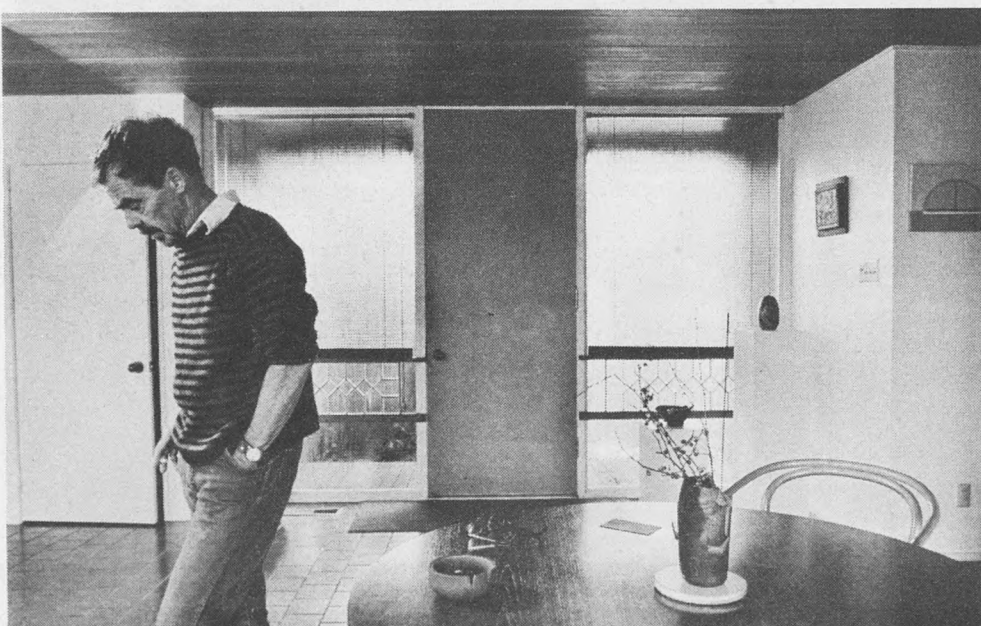
Sculptor Saunders Schultz, a 1950 fine arts graduate, in a display area of Scopia, a St. Louis studio that he co-founded. Photo appeared in the summer 1986 Alumni News.



"A Man for All Seasons," the cover story of the spring 1987 Washington University Magazine, features Viktor Hamburger, Ph.D., Edward Mallinckrodt Distinguished University Professor Emeritus of biology. This color photo of Hamburger was taken at his home.



Architect Leslie Laskey was included in the winter 1986 Washington University Magazine's special issue on teaching. This color photo of Laskey, now professor emeritus of architecture, was taken at his home.



6 William H. Matheson, Ph.D., professor of comparative literature, at his home, which he had built some 15 years ago. Photo appeared in the winter 1983 Washington University Magazine.



Swimming pool consultant Ken Williamson surveys the Athletic Complex pool on a return visit to his alma mater. A story and photo on the 1952 architecture graduate appeared in the summer 1987 Alumni News.

NOTABLES

Jonathan D. Bortz, M.D., a fellow in endocrinology and metabolism, has been awarded the Post-Doctoral Research Award Prize from the Renal Section of the American Physiological Society. Bortz's presentation, titled "Co-localization of Insulin-like Growth Factor I and Insulin-like Growth Factor I mRNA in Rat Kidney Collecting Duct," was recognized at the 72nd annual meeting of the Federation of American Societies for Experimental Biology (FASEB), held in May in Las Vegas, Nev. Bortz works in the laboratory of **Marc R. Hammerman**, M.D., associate professor of medicine.

Nicholas C. Burckel, Ph.D., director of public services and collection development at Olin Library, has been appointed to a two-year term on the College & Research Libraries News Editorial Board for 1988-90. The journal is published by the Association of College & Research Libraries. He also was named to a two-year term on the Association of College & Research Libraries Special Fund Committee (ACRL), a three-person committee that provides special grants for appropriate activities within the ACRL. Burckel served as a chair and commentator for a session titled "Archival Consulting" at the Midwest Archives Conference, held May 5-7 in Chicago.

David Felix, Ph.D., professor of economics, presented a paper, titled "Globalization of Finance and Third World Debt," at the 14th annual convention of the Eastern Economic Association held in Boston, Mass. He lectured on "Economic Options for Debt Relief" at the International Conference on Debt and Democracy on April 14-15 at Bucknell University. He was an invited discussant at the Conference on Long-Run Perspective on the International Debt Crisis, held May 27. The conference is organized by the Institute of International Studies, University of California/Berkeley.

Rudolf B. Husar, Ph.D., professor of mechanical engineering and director of the Center for Air Pollution Impact and Trend Analysis, participated in the planning meeting of the National Acid Precipitation Assessment Program (NAPAP), held April 18-22 at the Executive Office Building of the White House, Washington, D.C. NAPAP has the mandate to identify sources, processes, ecological and economical impacts, analyze information and make periodic recommendations to Congress on acid rain. An integrated assessment on the state-of-science and findings are due in 1990.

Victor T. Le Vine, Ph.D., professor of political science, presented a lecture on

"The Analytic Agendas of the Political Scientists" at a conference on "Africa in the 1990s and Beyond: Epistemological and Pedagogical Issues," held April 22-23 at Ohio State University, Columbus.

Milton J. Schlesinger, Ph.D., professor of microbiology and immunology and acting head of the Department of Microbiology and Immunology, and two other medical school faculty gave invited lectures at a colloquium on Gene Regulation and Cellular Signaling in Diabetes, held at the National Institutes of Health, Bethesda, Md. Schlesinger lectured on "Heat Shock and Other Stress-Induced Genes." **Philip W. Majerus**, M.D., professor of medicine, spoke on "Inositols as Cellular Messengers" and **Michael Mueckler**, Ph.D., assistant professor of cell biology and physiology, lectured on "The Glucose Transporter Gene and Its Regulation."

Richard A. Sutter, M.D., lecturer in industrial medicine and rehabilitation at the School of Medicine, has been named emeritus medical director of Lambert St. Louis International Airport.

Murray L. Wax, Ph.D., professor of sociology, and **Joan Cassell**, Ph.D., research associate in the sociology and anthropology departments, delivered a paper, titled "Culture, Symbol, Symptom: An Anthropological Application to Anorexia," at the Annual Meetings for Applied Anthropology, held April 22 in Tampa, Fla. Cassell also chaired the session on medical anthropology.

Murray L. Weidenbaum, Ph.D., Edward Mallinckrodt Distinguished University Professor in economics and director of the Center for the Study of American Business, gave the inaugural distinguished lecture on integrating economics and national security studies at the University of Maryland. On April 25, he addressed the plenary session of the Consultation on Competitiveness at the Carter Center of Emory University. He spoke on "How to Increase America's Competitiveness."

Have you done something noteworthy?

Have you: Presented a paper? Won an award? Been named to a committee or elected an officer of a professional organization? The Washington University Record will help spread the good news. Contributions regarding faculty and staff scholarly or professional activities are gladly accepted and encouraged. Send a brief note with your full name, highest-earned degree, current title and department along with a description of your noteworthy activity to Notables, Campus Box 1070. Please include a phone number.

Chancellor William H. Danforth in the article: "Our theory from the start was that if people knew about us, people would come...We are a Midwestern university. We're friendly." Regarding fees, Dennis J. Martin, financial aid director, says: "Families like it (Washington University's cost stabilization plan) because it offers stability in long-term planning. They see it as part of a statement from the university. We could afford to be a university where each student pays the full freight, but we are looking for a diverse student body."



Stanley L. Lopata (left), president of the William Greenleaf Eliot Society, presented the society's "Search" award to business and civic leader Oliver A. Goralnik, who was accompanied by his wife, Alma.

Business leader Goralnik honored

Business and civic leader Oliver A. Goralnik was honored May 11 by Washington University's William Greenleaf Eliot Society during ceremonies at the Adam's Mark Hotel.

Stanley L. Lopata, president of the society, made the presentation to Goralnik for "his many unselfish efforts on behalf of Washington University and the John M. Olin School of Business and for his outstanding leadership in bringing others to support the University through the Eliot Society and for his personal example as businessman, civic leader, family man and good neighbor."

The presentation included a hand-wrought replica of the sculpture "The Search" designed by Heikki Seppa of the School of Fine Arts at Washington.

The William Greenleaf Eliot Society, named for the founder of Washington University, is an organization of some 1,700 local and national members who have expressed interest in perpetu-

ating the principles of higher education.

Goralnik received his bachelor's degree in business administration in 1930 from Washington. His business career included many years with the P. N. Hirsch & Company. He progressed through the ranks to become treasurer and a member of the board of directors, and was a major force in the company's growth from one store to 400, which are now part of INTERCO INCORPORATED.

He has been involved in many civic activities, including United Way, the Jewish Federation, Jewish Hospital, the Growth Center, and the Scholarship Foundation of St. Louis.

A founding member of the Chancellor's Committee of 500, he has been involved in many Washington University programs and activities and has been awarded the University's Distinguished Alumni Award, and the Dean's Medal by the John M. Olin School of Business.

Sullivan, Ghidina promoted at law school

As part of an administrative reorganization, Susan Sullivan, Ph.D., assistant dean of the law school at Washington University, has been promoted to the new position of assistant dean for external affairs, according to Dorsey D. Ellis Jr., J.D., dean and professor at the School of Law.

Ellis also has announced the appointment of Sue A. Ghidina to director of career services. Ghidina currently is associate director of career services and admissions at the law school. Both appointments are effective July 1, 1988.

As assistant dean for external affairs, Sullivan's duties will include coordinating the school's publications and working with the law school's new National Council. She also will work closely with the University's alumni relations staff and will oversee the career services office.

Sullivan has a bachelor's degree from Drake University, a master's degree

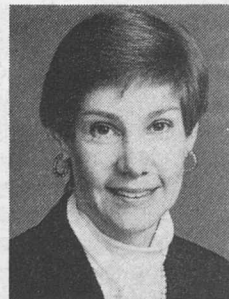
from the University of Miami and a doctorate from the University of Missouri-Columbia.

In addition to coordinating the day-to-day operations of the career services office, Ghidina's responsibilities will include conducting career counseling for law students and managing student interviews with legal employers from across the country.

Ghidina has a bachelor's degree from Illinois State University and a master's degree from Bradley University.



Sue A. Ghidina



Susan Sullivan

NEWSMAKERS

Washington University faculty and staff make news around the globe. Following is a digest of media coverage they have received during recent weeks for their scholarly activities, research and general expertise.

"We will be welcoming a class of 1,200 freshmen with the strongest academic credentials of any freshman class we have ever known," says E.B. McDonald, acting dean of admissions, in a May 25 *New York Times* article that says Washington University "has dramatically come into its own." Says

CALENDAR

June 2-July 7

MUSIC

Saturday, June 11

7:30 p.m. Dept. of Music Presents an Indian Music Concert. T. R. Subrahmanyam, carnatic vocalist. Simon Hall Aud. General admission is \$10 for adults and \$5 for children. WU staff, faculty and students are free; \$5 for students other than WU students.

EXHIBITIONS

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

"Language, Signs and Meaning: The Philip Mills Arnold Semeiology Collection." Through July 31. Olin Library, Special Collections, level 5. 8:30 a.m.-5 p.m. weekdays.

Calendar Deadline

The deadline to submit items for the July-Aug. 2 calendar of the Washington University Record is June 16. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Address items to King McElroy, calendar editor, Box 1070.

Auditions open to area musicians for summer orchestra

The music department has announced plans to host a summer orchestra. All qualified musicians in St. Louis are invited to audition.

Dan R. Presgrave, director of the Wind Music Program at the University, will conduct the group, which he says will be the city's only summer orchestra for non-professional musicians.

To be called the Classic Summer Orchestra, the group's repertoire will consist of the standard orchestral works.

Presgrave, who also has been appointed conductor of the Washington University Symphony for 1988-89, says the Classic Summer Orchestra will perform three to four concerts during the summer.

"The orchestra will offer area musicians an excellent opportunity to continue playing during the summer, when most community and school orchestras have ended their seasons," Presgrave says.

Auditions will be held until June 8. For information, call 889-5581.

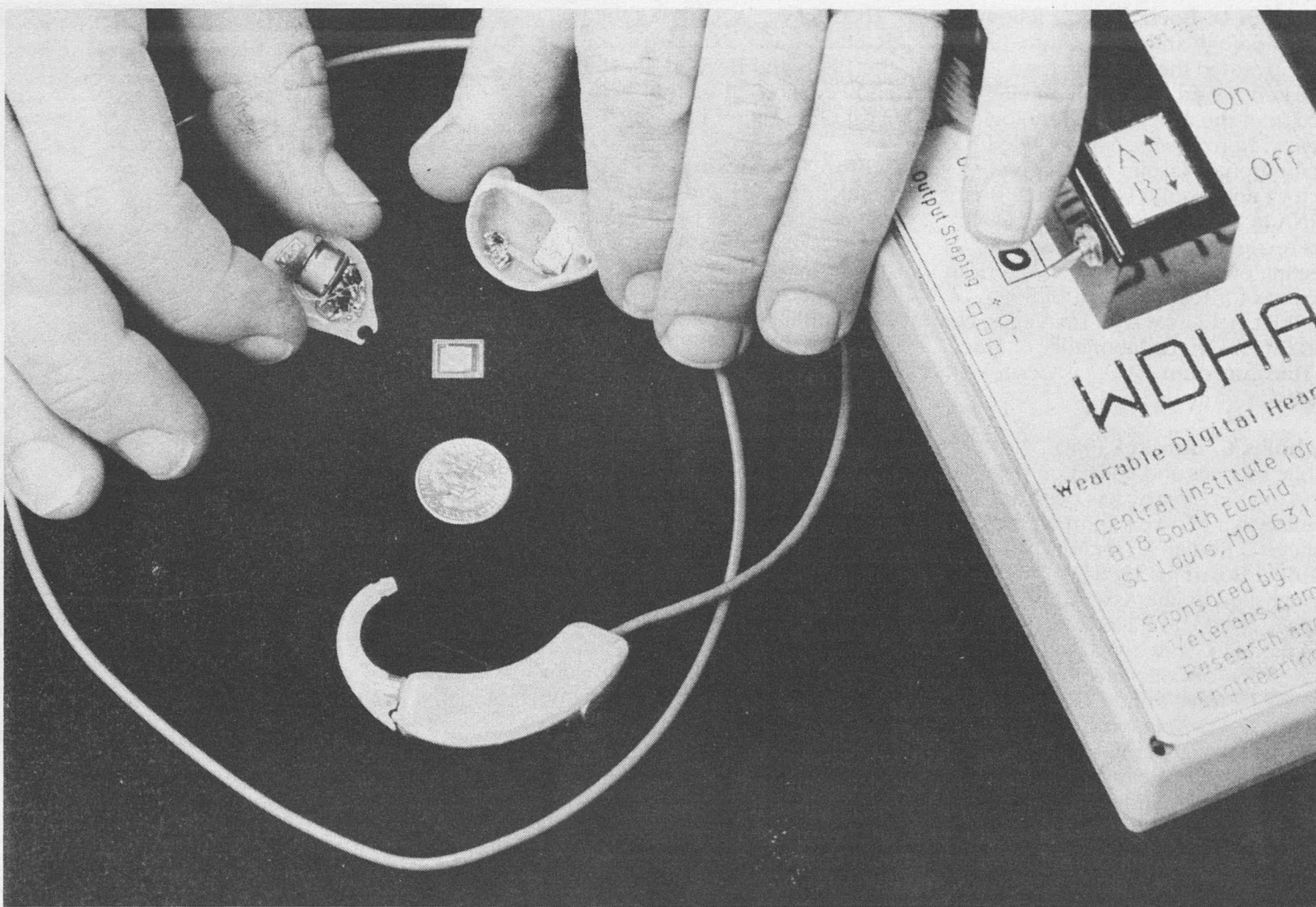
Indian music concert set

The second in a series of Indian music concerts will be presented at 7:30 p.m. Saturday, June 11, in Simon Hall. The program will feature carnatic vocal music sung by T.R. Subrahmanyam. Carnatic music is performed in the South Indian classical style.

The concert is co-sponsored by the music department and Sangeetha, a non-profit organization devoted to promoting the classical music of India.

Subrahmanyam, an associate professor of music at India's Delhi University, will be accompanied by Vasantha Kannan on violin and Trichur R. Mohan on mridangam.

Admission for the concert, which is funded in part by the Regional Arts Commission, is \$10 for adults; \$5 for students and children. Admission for faculty, staff and Washington students is free. For information, call 889-5581.



The new digital electronic system for hearing aids involves 30,000 transistors contained in two small chips, which are smaller than a dime. The chips are encased inside a moisture-proof plastic aid that can be worn either inside or outside the ear.

Digital hearing aid — continued from p. 1

processor that is programmed only once to give a sort of mathematical "prescription" for the individual's hearing problem.

"The digital system makes fine adjustments automatically, and does more complicated things than a conventional system," says Engebretson, who also is an associate professor of computer science at Washington. "For instance, it has the capability to adjust quickly to different ranges of noise. Let's say you move from one noisy room where there is a party going on to another where the atmosphere is more subdued. The digital device continually monitors and adjusts itself to adapt to these nuances of sound."

At check-up time, the new digital aid can be programmed by computer in about 15 minutes — a vast improvement over the two to three hours it takes to adjust a conventional aid. The result will be fewer trips to the audiologist for the nation's millions of hearing-aid users and more time for patients to "tune" into the world about them.

"When it comes to handling the curves tightly, our digital device is like a Grand Prix race car compared to the conventional aid, which is more like a Model T," Morley says.

It's all accomplished through the incredibly rapid mathematical calculations made possible by the semiconductor revolution.

A conventional hearing aid conveys sound levels through voltage; the digital system, true to its name, conveys continuous sound waves through a system that uses a sequence of digital numbers to represent samples of the sound waves.

The digital aid amplifies sound from 200 Hz to 6 kilohertz (kHz) compared with the lower threshold of the conventional aid, with a maximum amplification of 4 kHz. As a point of reference, the maximum range of sound of a telephone receiver is 3 kHz, and that,

says Morley, "is actually totally inadequate for good hearing. The letters 'S' and 'F,' for instance, are often indistinguishable."

The vast majority of the nation's estimated 20 million people with hearing disorders go untreated. There are several reasons for this, says Donald R. Calvert, Ph.D., chairman of the speech and hearing department at Washington and director of the Central Institute for the Deaf.

"Older people often fear the stigma of aging associated with wearing a hearing aid," says Calvert. "Another group of people become dissatisfied with hearing aids and simply give up on them. And then there is a very large sector who are simply victims of the insidious nature of hearing loss. It creeps up on them over the years, and they learn to deal with the problem through avoidance or accommodation. This group gets used to quiet as a normal condition. When they try a hearing aid, they're often stunned by how loud the world actually is."

Calvert heads a research, teaching and service institute that prepares research scientists, audiologists and teachers of people with severe hearing problems. One hundred handicapped children of all nationalities — some who cannot hear or speak at all — are assisted with their handicaps through the latest technology at CID.

"I believe the digital device will be a great boon to all those who are reluctant to try a hearing aid," Calvert says. "And it will be helpful not only as a learning tool but a hearing aid for about a third of our students."

Because vanity is so much a part of the reluctance to use a hearing aid, an increasing number of aids sold today are in-the-ear types. The digital hearing aid will be available as both an in-the-ear or behind-the-ear device.

"Cosmetics drive the market," Morley notes. "It's ironic that in our

society, it's 'hip' to blast your ears out with a Sony Walkman or various other means, but when people pay the consequences with hearing loss, they don't want to wear a hearing-aid visible to the public."

Morley and the CID team patented their concept in 1985. Their original grant came from the Rehabilitation Research and Development Service of the Veterans Administration.

Motivated by his background in designing and manufacturing communication terminals for the deaf and hopeful of establishing a research program, Morley visited Engebretson shortly after joining the Washington faculty full time in 1981. Engebretson and his colleagues at CID were working on an advanced analog hearing aid at the time.

"I looked at their system and thought, 'why not do it digitally?'" he says. "We proposed the project to the Veterans Administration a short time afterward."

The electronics of the hearing aid have shrunk over the years from a totally impractical suitcase-sized box to a body-worn unit the size of a portable radio to the current microchip.

While conventional hearing aids presently cost about \$500, those interested in the latest in hearing aids should not expect the digital device to come cheaply.

"The hearing aid will cost a little more for all the extras it provides," Morley says. "We envision it as the 'Cadillac' of the field."

Tony Fitzpatrick