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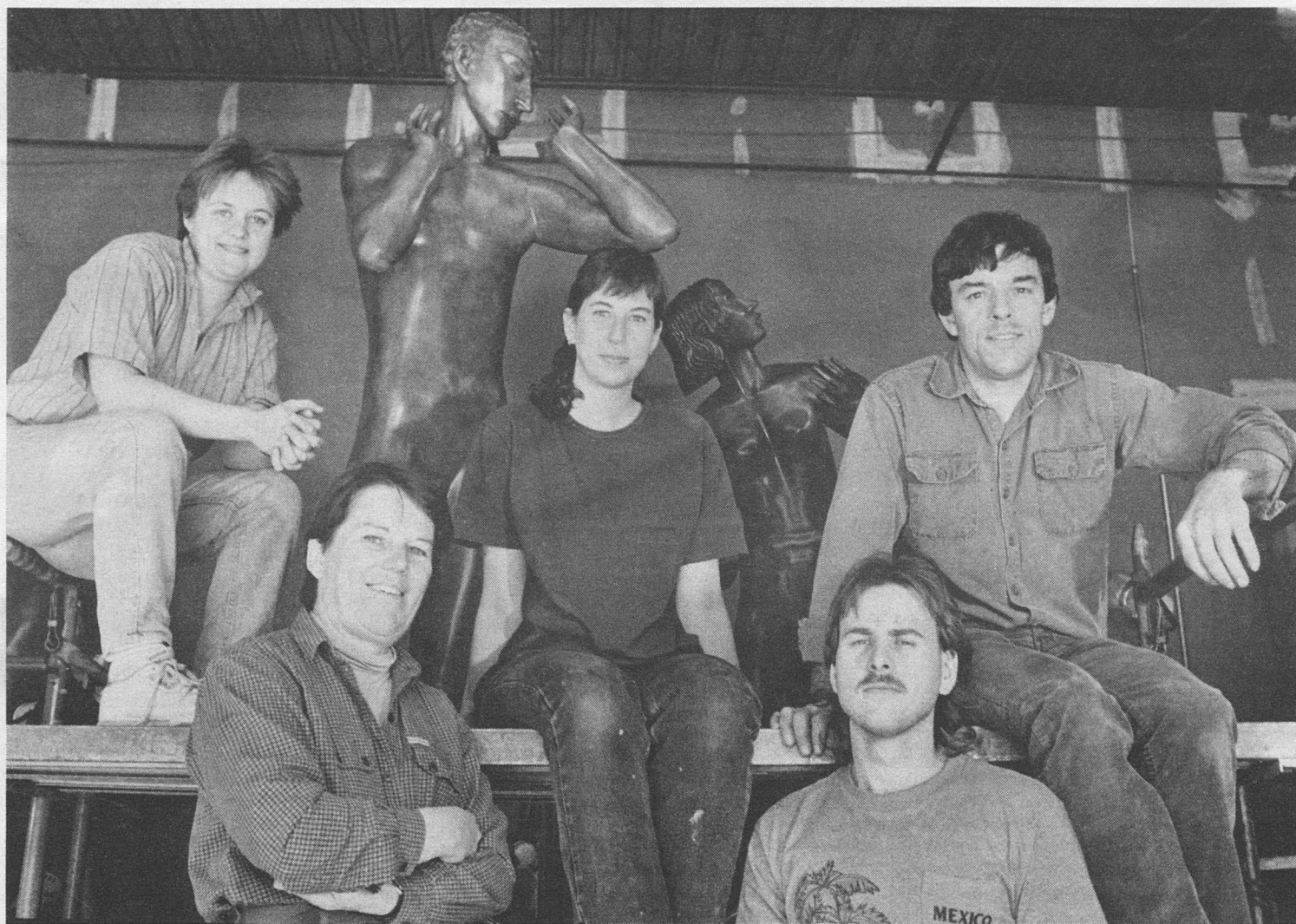


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Members of the Conservation Group of Washington University Technology Associates (WUTA) take a break from beautifying and preserving the eight statues that constitute "The Orpheus Fountain" by Swedish sculptor Carl Milles. The conservation crew includes (front row, from left): Phoebe Weil, WUTA's chief conservator, and Jeff Felps, project manager; (back row, from left) Trina Aschim, conservation technician, Kathy Hebb, conservation apprentice, and Brian Hayden, project manager.

Tall treatment

Saving sculptures from the elements is monumental task

"Every task we do here is monumental," quips Phoebe Weil as she walks into her studio where eight enormous statues by Swedish sculptor Carl Milles loom overhead in a greenish glow.

Weil is the chief conservator for the Conservation Group of Washington University Technology Associates (WUTA). The works are Weil's latest Milles' "patients," but not her first. In 1974 she did the Milles fountain across from St. Louis' Union Station.

The eight figures constitute the sculptural group "The Orpheus Fountain." Its permanent location is a focal point on the campus of the Cranbrook Academy of Art in Bloomfield Hills, Mich., a Detroit suburb. The work is considered a symbol of the famous school of fine arts and architecture, founded in 1927 by Eliel Saarinen, whose son, Eero, designed St. Louis' Gateway Arch.

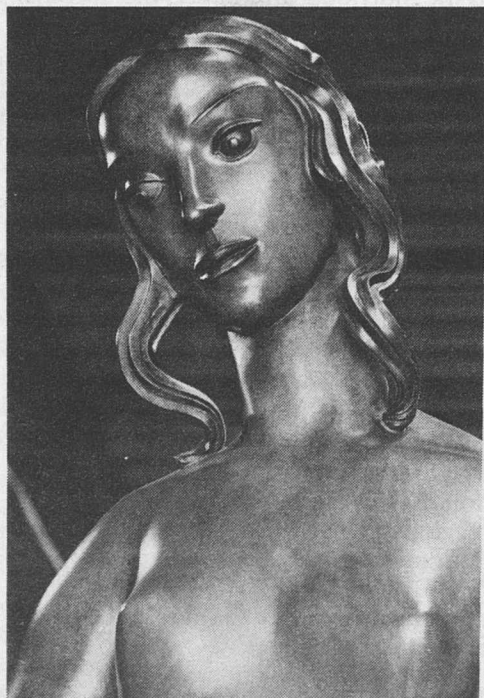
Milles, who took up residence as a teacher at the academy in 1931, was given the commission in 1930. In his original design, installed at the Stockholm Concert Hall, the figures surround a central colossal sculpture of Orpheus playing his lyre; in the Cranbrook version, Orpheus was replaced by a fountain. Splashed constantly by water, the nudes (one of which is an unmistakable likeness of Beethoven) represent human spirits responding to music.

But even for a bronze sculpture, 50 years of water running down your back can prove a little too much. When the original greenish appearance (known as patina) had been completely destroyed

by acid rain and surface modeling obscured by accumulations of calcium carbonate and rust deposits, WUTA was called in to help. The nudes arrived in St. Louis last August.

"No sculpture is safe outside permanently," Weil says. "Air pollutants inevitably interact with metal surfaces and damage them." Constant exposure to moisture had also corroded the internal iron support structure (armature) of the fountain sculptures.

Last year, the original armature of



One of the eight statues from "The Orpheus Fountain" after its cast bronze surface had been treated by the University's sculpture conservation group.

the Stockholm Orpheus was replaced, a process that required cutting the external bronze "skin." But WUTA engineers, led by Jerry Dahl, were able to disassemble the Cranbrook Orpheus sculptures and replace the armatures with ones made of stainless steel, without damaging the cast bronze surfaces.

After reassembly, WUTA conservators removed rust deposits by low-pressure blasting with walnut shells to reveal an unusually attractive copper sulfate corrosion crust. Glass microspheres were used to remove the hard calcium crust.

The beautification was rounded out with chemical patination. By spraying the nudes with a protective coating of an acrylic resin and modulating the green color with glazes, the newly unveiled bronze radiance of the sculptures was highlighted and protected. The figures, now reinstalled at Cranbrook, are once again drenched by fountain water. Weil likes knowing that only water will drip off their limbs, rather than water laden with dissolved bronze.

"We are not only making works of art look their best, we are also preserving them," explains Weil. And she speaks from experience: Her first major sculpture conservation project was the treatment in 1974 of Milles' fountain "The Meeting of the Waters" across Market Street from Union Station in downtown St. Louis.

The Sculpture Conservation Laboratory
Continued on p. 8

Symphony premiere among highlights of Janacek conference

The international conference and festival on composer Leos Janacek and Czech music, to be held at Washington University May 4-9 will feature a wide array of events open to the public. Highlights include a North American premiere of Janacek's "Danube Symphony" by the St. Louis Symphony Orchestra; a concert by Janacek's most famous pupil, acclaimed pianist Rudolf Firkusny; and the screening of a feature film about Janacek, which has never before been shown outside Czechoslovakia.

On May 6, Leonard Slatkin and the St. Louis Symphony Orchestra will present the North American premiere of Janacek's "Danube Symphony," a work that has only been performed once outside Czechoslovakia—before a small audience in Liverpool, England.

"Janacek is one of the most important composers of the 20th century," says Slatkin. "Not many pieces by major composers exist that haven't been performed. When I learned of the opportunity to premiere a work by Janacek, I jumped at it. Not to would have been like finding a Beethoven work and deciding not to play it."

Janacek began the "Danube Symphony" in 1922, in the middle of the intensely productive 12-year period that saw the creation of his greatest works. A scored sketch of the piece was found after the composer's death in 1928. Twenty years later, Janacek's pupil Oswald Chlubna completed the work, making substantial changes and additions. The edited work was not well received, and the "Danube Symphony" lay unperformed for almost 40 years.

In 1985, scholars Milos Stedron and Leos Faltus determined that the "Danube Symphony" was much more complete than previously believed. They re-edited the work, cleaning up the score and restoring the original orchestration.

Michael Beckerman, Ph.D., assistant professor of music and director of the Janacek conference, says the symphony reflects the composer's mature style, as well as his passion for nature. "The 'Danube Symphony' opens almost as a pastoral vision of the Danube, and gradually unfolds into a piece of tremendous drama," Beckerman says.

The "Danube Symphony" will be performed at 8:30 p.m. May 6 and 7, and at 3 p.m. May 8, at Powell Symphony Hall. Tickets range from \$13 to \$33; call the Powell box office, 534-1700, for more information.

Master pianist Rudolf Firkusny, hailed as one of this century's premiere keyboard artists, also is considered one of the world's foremost authorities on Czech music. He has had a life-long relationship with the music and ideas of Janacek. Recognized as a prodigy at age four, Firkusny was first introduced to Janacek at five; by this time Firkusny had already outgrown his first teacher, prompting his mother to arrange a meeting with the Czech master composer. Janacek engaged Firkusny in an intense program of composition and sent him musical scores. Firkusny also accompanied Janacek to the premieres of his works. In turn, Firkusny has acted

Continued on p. 2



"Clown's Play:" Children at several preschools and daycare centers were treated to a live performance of "Clown's Play" early this month. The play was produced and performed by members of Thyrsus, the student drama society at Washington University. Thyrsus is the oldest student group on campus. "Clown's Play" begins when eight ushers, dressed as clowns, escort the children to their seats for a performance of "Jack and the Beanstalk." When a van carrying the "real" actors breaks down, the clowns, insisting that the show must go on, act out the play themselves. The work was directed by junior Wendy Stojeba. "If children see theatre early in their lives they tend to keep it in the back of their minds and pursue it when they reach high school or college," she says. Thyrsus members also performed "Clown's Play" at Children's Hospital and at the University's Thurtene Carnival.

Janacek — *continued from page 1*

as his teacher's disciple, sharing Janacek's music with audiences throughout the world.

Firkusny, joined by Chamber Music St. Louis, will perform Janacek's "Capriccio" at 8 p.m. May 9 at the Sheldon, 3648 Washington Ave. Also on the program is a world premiere of a chamber piece by Janacek. Tickets are \$8. Call the Powell box office, 534-1700, for more information.

Other events scheduled for the Janacek festival include a performance by Washington University's Dan Presgrave Ensemble, with Seth Carlin, on piano. The ensemble will play Janacek's "Concertino," and "Serenade for Winds," by Dvorak. The concert will be held at 8 p.m. in Steinberg Hall auditorium. Tickets are \$10; \$5 for students. Call the music department, 889-5581, for information.

Pianist Eva Solar-Kinderman will perform works on Janacek and Smetana in a free recital at 7 p.m. May 5 in Steinberg Hall. Solar-Kinderman, who was born in Sweden, studied piano in Prague, where she won the Czech National Musical Youth Competition in 1965. She holds degrees from the Zurich Conservatory of Music and the Vienna State Academy of Music. She currently lives in Canada.

Solar-Kinderman's free recital will precede "Duets from Czech Folk Poetry," a concert featuring works of Janacek, Dvorak, Martinu and Kapral. Mezzo soprano Mary Henderson will join Carole Gaspar and B.J. Clutter in the performance, to be held at 8 p.m. in Steinberg Hall. Tickets are \$5. For information, call 889-5581.

David Adams, associate professor of voice at the College-Conservatory of Music at the University of Cincinnati, will join Mary Henderson in a performance of Janacek's "The Diary of One Who Vanished," at 1 p.m. Friday, May 6, in the Women's Building Lounge. The recital is free. Call 889-5581 for information.

Linda DiGiustino, associate professor of music at West Virginia Wesleyan College, will perform Janacek's piano cycle "On the Overgrown Path," as well as works by Josef Suf and Vitezslav Novak, in a free recital at 1 p.m. Saturday, May 7, in Brown Lounge. Call 889-5581 for information.

The Duo Patterson, comprised of violinist Ronald Patterson and violist Roxanna Patterson, will perform works of Martinu and Kalivoda at 8 p.m. Sunday, May 8, in Steinberg Hall. Ronald Patterson, a five-time First Place Winner of the Coleman Chamber Music Competition, was a founding member of the St. Louis String Quartet. He formerly taught at Washington University, and has served as concertmaster of the Miami Philharmonic, the Denver Symphony and the Houston Symphony. Since 1979, he has served as the Concertmaster of l'Orchestre Philharmonique de Monte Carlo.

Roxanna Patterson has played with the Fort Worth and Houston symphonies, and l'Orchestra Philharmonique de Monte Carlo. Tickets are \$10; \$5 for students. For information, call 889-5581.

"The Lion With the White Mane," a film biography of Leos Janacek, will be screened at 8 p.m. Saturday, May 7, at The Saint Louis Art Museum. Tickets are \$2; \$1 for Friends of the Museum. See the next issue of the Washington University Record for more information about the film.

Career counseling on-line with computer system

When you make an appointment to see a counselor in the Career Center, you won't be forgotten once the counseling session ends.

Information from your registration form is entered into the Career Information System (CIS), a computer management information system that allows counselors to keep an ongoing record of students, their fields of interest, and whether they are interested in an internship, part-time, full-time or summer job. This information can be matched on-line with companies and organizations that have expressed an interest in Washington University students and alumni.

The system, which allows counselors to match students with available opportunities, listed some 850 positions last year, from more than 750 businesses, industries, educational institutions and social service agencies.

Alfreda Brown, a career development specialist and one of the designers of CIS, says the system stresses career

planning over job placement.

"We feel students should get involved as soon as possible in an internship, summer or part-time job in their area of interest. These opportunities can eventually result in full-time jobs," says Brown.

"The thing that makes this system exceptional," she says, "is that it is comprehensive. It has unlimited storage space to keep ongoing information."

Brown says the system also helps counselors keep up with occupational trends that can change or expand the complexion of various fields. An example, says Brown, is the current demand for people with combined teaching and computer literacy training.

"Career fields change as trends change," explains Brown. "This system allows us to do an analysis to see what trends are developing and then advise our students or the appropriate University department about the development."

Brown says CIS also allows for

monitoring the effectiveness of the program, individual outcomes and accomplished goals.

Another program that many students and alumni have found helpful is the Alumni Access Program. Approximately 700 alumni from various backgrounds and professions volunteer to serve as resource people to students and alumni who would like to enter their field or profession. Brown says the program heavily emphasizes networking.

SIGI-PLUS, the computerized career guidance system, can be used to aid students in assessing the vocational skills, interests and values most important to them. The nine-step program provides career guidance that is tailored to the individual and directs the user in establishing an immediate plan of action by establishing short-range goals.

For more information, call the Career Center at 889-5930.

Monsanto donates equipment, pledges research grants

State-of-the-art equipment for analyzing and modifying catalytic surfaces — plus two experimental prototype TAP (Temporal Analysis of Product) reactor systems valued at almost \$500,000 — have been donated to Washington University by the Monsanto Co., according to Chancellor William H. Danforth.

Monsanto also will make research grants totalling \$150,000 over the next two years, said David B. Price Jr., vice president and general manager of Monsanto's Specialty Chemicals Division. The grants are to facilitate the installation and operation of the new equipment and fund fundamental research with the TAP system in both catalytic and non-catalytic reactions.

In a ceremony at the University, Price presented Danforth and James M. McKelvey, Ph.D., dean of the School of Engineering and Applied Science, with the first grant check of \$75,000.

"We continue to be deeply grateful for the strong support our scientists receive from Monsanto," said Danforth.

The TAP reactor system was developed by John T. Gleaves, Ph.D., a former Monsanto scientist and now an associate professor of chemical engineering at Washington University, and Jerry R. Ebner, Ph.D., a Monsanto scientist. Monsanto recently licensed Autoclave Engineers Inc. (AEI) of Erie, Pa., to manufacture, use and sell the TAP system. The commercial model sold

to AEI also will be located at Washington University.

The TAP system facilitates a better understanding of the role of catalysts in chemical reactions by allowing scientists to take a real-time snapshot of a reaction. Before the introduction of the TAP reactor, such an effective process was not possible.

Gleaves played an integral part in the establishment of this advanced facility at the University.

"We believe a continuation of the collaborative efforts among Monsanto, the chemical industry and the students and faculty of the University will help ensure the competitive advantage of American technology," Price said.

NOTABLES

Laura K. Holden, clinical audiologist, and **Susan M. Binzer**, coordinator of the Cochlear Implant Program of the otolaryngology department, presented "Multichannel Cochlear Implantation: A Case Presentation" at the annual hearing aid conference on March 11 at the Washington University School of Medicine.

Joseph K. T. Lee, M.D., professor of radiology at Mallinckrodt Institute of Radiology, presented a scientific paper recently at a National Institutes of Health consensus conference held in Bethesda, Md. His study — which dealt with the effectiveness of magnetic resonance imaging (MRI) on producing images of the male pelvis — was one of 20 used to compile an official statement on the development of MRI for medical purposes. The complete report set down the efficacy of MRI, determined its most useful clinical applications, and compared it to other forms of medical imaging.

Charles R. McManis, J.D., professor of law, participated on March 23 in a conference jointly sponsored by Exxon Foundation and Washington University on "Responsibility and Integrity in Public Discourse." On March 24, he spoke on "What Lawyers Mean When They Talk About Torts" at an ALI-ABA conference on "Legal Problems of Museum Administration" held in St. Louis.

Daniel R. Mandelker, J.S.D., Howard A. Stamper Professor of Law, delivered the fourth annual colloquium lecture on city and regional planning, held April 8 at Memphis State University.

Terry Martin, a doctoral student in music, was invited to perform at the Third National Fortepiano Conference in Springfield, Mass. He played in master classes given by John Gibbons and **Seth Carlin**, professor of music at Washington University. The conference was sponsored by the Westfield Center for Early Keyboard Studies.

Gustav Schonfeld, M.D., William B. Kountz Professor of medicine at the School of Medicine and director of the Lipid Research Center, presented a seminar on immunogenetics of apolipo-

protein B, held March 11 at Rockefeller University in New York City. He also co-authored two papers that recently have been accepted for publication by the Journal of Lipid Research. The papers are titled "Regional specificities of monoclonal anti-human apolipoprotein B antibodies" and "Lipolysis of LDL phospholipase A2 alters the expression of selected apoB-100 epitopes and the interaction of LDL with cells."

Stephen J. Stedman, an instructor in political science, and **Julie Withers**, a postdoctoral fellow in political economy, presented a paper on "A Dynamic Game Theoretic Model of Revolutionary Conflict and Settlement" at the meetings of the Public Choice Society of the American Economics Association, held in March in San Francisco. **John Gilmour**, Ph.D., assistant professor of political science, presented a paper on "Hardball and Softball Politics: Coalition Formation in Congress" at the same meetings.

Michael W. Vannier, M.D., associate professor at Mallinckrodt Institute of Radiology, has been named an advisory member of NASA's Technology Applications Team. Joining other nationally recognized scientists, he will serve on the team's Biomedical and Rehabilitation Advisory Group, where he will help identify medical needs that can be met through the application of NASA technology. The team was established to guarantee that NASA developments benefit both public and private sectors. Vannier is recognized for his leadership in the application of aerospace computer-aided design to surgical planning.

Clifford M. Will, Ph.D., professor of physics, has been elected to the executive committee of the Astrophysics Division of the American Physical Society for a two-year term. The committee handles the general affairs and advises the chairman of the 2,000-member division. He was named recently to a three-year term on the Resource Letter/Reprint Book Editorial Board of the American Association of Physics Teachers. His book *Was Einstein Right?* is being translated into French, German, Japanese and Portuguese. Also, a paperback edition is due out this summer.

Ernst Zinner, Ph.D., senior research scientist at the McDonnell Center for the Space Sciences, and 21 colleagues from the physics and earth and planetary sciences departments, attended the 19th Lunar and Planetary Science Conference, March 14-18 in Houston, Texas. They presented a total of 24 scientific papers. This international conference is an annual event since 1970, following the initial analysis of the first returned lunar samples from the Apollo missions. The conference also serves as a forum for contact between the United States and Soviet planetary scientists.

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.

Two business school faculty named to endowed professorships

Dean H. Kropp, Ph.D., and Gary J. Miller, Ph.D., have been named to endowed professorships in the John M. Olin School of Business, Robert L. Virgil Jr., D.B.A., dean of the school, has announced.

Kropp has been named the Dan Broida Professor of Operations and Manufacturing Management and Miller is the Reuben C. Taylor Jr. and Anne Carpenter Taylor Professor of Political Economy.

Kropp formerly was on the faculty of the Amos Tuck School of Business at Dartmouth College. He held a visiting appointment at the University's business school during the 1986-87 academic year and joined the tenure faculty on July 1, 1987.

Kropp is well known nationally for his path-breaking research on instability in production scheduling, commonly referred to as "nervousness" in the

literature. He was selected 1987 Teacher of the Year by both the University's first-year and evening MBAs.

Miller was scholar-in-residence in the business school during the 1985 fall semester. He then joined the tenure faculty as professor of political economy in 1986. His paper "Administrative Dilemmas: The Role of Political Leadership" has been selected to receive the Pi Sigma Alpha Award for the best paper presented at the 1987 meeting of the Midwest Political Science Association.

He is the author of other award-winning research articles in the leading journals of political science and also has written several books on administrative reform and American government. He currently is doing a study of the ratification of the U.S. Constitution under a grant from the Smith Richardson Foundation.

Math team ranks in top 10 nationally

A team from Washington University once again ranked among the top 10 in the nation in the William Lowell Putnam Mathematical Competition, which was held in December. Thus, a Washington University team has ranked in the top 10 for the last 11 years.

"Averaged over the past dozen years, the Washington University team has had the best performance of all colleges and universities participating in this prestigious annual event," says Carl M. Bender, Ph.D., professor of physics and a coach for the competition. "Harvard University and Princeton University rank second and third."

Japeth Wood, a sophomore in the College of Arts and Sciences, ranked among the top 10 students in the nation. Other high-ranking students include Daniel N. Ropp, a senior in the College of Arts and Sciences, who ranked 18th; and David S. Shobe, a junior in the

College of Arts and Sciences, who ranked 59th. Other College of Arts and Sciences students who participated in the competition were Arthur B. Kosowsky, a junior; Peter H. Berman, a freshman; Peter S. Shahan, a sophomore; and Anita J. Barnes, a sophomore.

Teams from 359 colleges and universities from the United States and Canada took part in the competition. There were 2,170 students competing in the six-hour examination.

The top five schools were Harvard University, Princeton, University of California/Berkeley, Carnegie-Mellon and MIT.

Now in its 48th year, the competition is open to all college students and each school may enter as many students as it wishes.

In addition to Bender, Richard Rochberg, Ph.D., professor of mathematics, served as a coach.

Mixed Choir to present spring concert

Washington University's Mixed Choir, directed by Professor Orland Johnson, will present its spring concert at 8 p.m. Monday, May 2, in Graham Chapel. The concert is free and open to the public.

The program will include the Mass in G by Schubert, the "Festival Te Deum" by Britten, and "Zum Schluss" by Brahms. Performing solos will be Laura Brady, soprano; Greg Gettys, tenor; and

David Tadlock, bass. Accompaniment will be provided by the Quartet Seraphim and Kim Schuler, organist.

The choir comprises approximately 60 voices and is open to both the Washington University and St. Louis communities.

For more information on the concert, call 889-5581.

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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.

Mass transit has been a massive failure, according to a recent report by the Center for the Study of American Business, says an article in the Feb. 13 issue of *Human Events* magazine published in Washington, D.C. The report, made by analysts Kenneth W. Chilton, associate director of the Center, and a former colleague, says that a very large part of the \$41 billion in federal grants awarded to urban mass transit

projects since 1965 has been wasted on grandiose, uneconomic projects. And unless major reforms are made, the \$18 billion earmarked for urban transit through 1991 will be just as poorly spent.

Who pulls the strings in America's boardrooms? Too often directors simply follow management's script. "Corporate boards have a lot of room to improve still in understanding the company," says Armand Stalnaker, Ph.D., professor of management at the John M. Olin School of Business, in the March 13 *Miami Herald*.

MEDICAL RECORD

Myths about schizophrenia dispelled by psychiatrist

Those money-making, nightmarish movies that depict a maniac committing carnage in grisly revenge against society perpetuate one of the most damaging myths about schizophrenia — that its victims are violent — says a psychiatrist at the School of Medicine who once had the disease.

Movies like "Schizoid," whose recent ads pictured a menacing man wielding a pair of bloody scissors, are the most flagrant examples of media bias against the mentally ill, comments Carol North, M.D. She adds that even well-meaning books, movies and television shows reinforce three longstanding misconceptions about the disease: that schizophrenics are violent, that they have "split" personalities, and that their families caused the illness.

tent myths, North says, are that schizophrenia is a split personality and that bad families cause it.

Split, or multiple, personality — as described in books like *Sybil* or *The Three Faces of Eve* — is a rare form of hysteria that has nothing to do with schizophrenia, she explains.

Public misconception undoubtedly is due in large part to the word schizophrenia, taken from the Greek "schizo" (split) and "phrenia" (mind). Psychiatrist Eugen Bleuler coined the term in 1911 to describe the mind's split from reality; the illness used to be called dementia praecox, meaning an early senility. "It was originally recognized as a disorder of the brain, some kind of deteriorating process that comes on in early life," North notes. "Then the Freudians and

'People are afraid that schizophrenics will suddenly become violent and start hurting people senselessly, so they refuse to hire them and avoid them.'

And many of the books and movies about "real-life" cases actually describe symptoms of other mental disorders, not schizophrenia.

North bases those comments on close observation of movies and television shows and on her analysis of books chronicling the cases of five schizophrenics, plus her own experiences and those of the schizophrenics she now treats.

Misinformation and ignorance have created pervasive prejudice against mental illness that adds a tremendous burden to the schizophrenic's already terrifying health problems, North says. Educating the public is the only way to remove the stigma, she says. Many experts consider schizophrenia the worst mental health problem in the nation — more than two million schizophrenics live in the United States at an annual cost of \$20-48 billion — but the public understands very little about it. As a result, North says, myths abound.

"The most harmful myth is violence," she says. "People are afraid that schizophrenics will suddenly become violent and start hurting people senselessly, so they refuse to hire them and avoid them." Yet studies show that schizophrenics are slightly less violent than the general public, North says. And though some schizophrenics pose a danger, she says, people from any walk of life can be violent.

"Movies and television shows that misuse the term or depict schizophrenics in crimes of senseless violence such as brutal chain-saw murders do a real disservice to the sick and society at large." It may be dramatic to show someone actively hallucinating, she notes, but "sitting in a chair chain-smoking all day is more realistic. Doing nothing constitutes a large part of the behavior of many schizophrenics, and that's not very exciting."

Nevertheless, "the myth of the violent madman is so much a part of our culture that it is hard to perceive (as a myth)" writes MaryEllen Walsh, the mother of a schizophrenic, in her book *Straight Talk*. "In films and print, schizophrenics are shown as menacing figures...with rage in their eyes and with blood on their hands. Because of these off-base depictions, millions of people have the erroneous idea that schizophrenics must be violent."

Two other destructive and persis-

the psychoanalysts developed their own theories for it."

The psychoanalysts are generally credited with the third myth, that from bad families come schizophrenic children. Blaming the family, particularly parents, came into vogue after World War II, when society strongly valued family togetherness.

"Current understanding of schizophrenia is that it is not emotionally caused, but is a brain disease of biological origin," North explains. "The cruel practice of blaming parents for causing their schizophrenic child's illness is falling into disfavor. Instead, families deserve support and understanding of their tragedy."

Understanding doesn't come easily, though. And for that, North says, psychiatry must accept some of the fault: historically, patients have been misdiagnosed because of vague, shifting criteria. Incorrectly diagnosed schizophrenia carries over to the movies, she comments. "In practically every movie I've ever seen about a schizophrenic, the symptoms don't represent schizophrenia." Rather, she says, the patients have been misclassified and have personality disorders, such as sociopathy, or are manic depressives or drug abusers.

The same is true of the portrayals of schizophrenia in many popular books, she adds. In 1981, North published an analysis of diagnostic discrepancies in five personal accounts of patients with "schizophrenia." She treated the books — which included the best sellers *The Eden Express* and *I Never Promised You a Rose Garden* — as case histories, writing down every symptom and classifying them according to specific criteria that had been recently established by the psychiatry profession's diagnostic manual, called *Diagnostic and Statistical Manual - Third Edition (DSM - III)*. Her report in the journal, *Archives of General Psychiatry*, concluded that none of the patients had described clinically accurate cases of schizophrenia, though they clearly suffered from a number of other psychiatric conditions.

"If these patients were actually schizophrenic," she wrote, "then the accounts did not reflect the schizophrenic symptoms. This brings us back to the basic conflict between artistic license and scientific accuracy." When



Carol North has written a book, *Welcome Silence*, which describes her 18-year battle with schizophrenia and her recovery 10 years ago.

popular literature lacks scientific quality, it contributes to a "grossly misinformed and confused" public, she continued.

"The public comes to believe that schizophrenia is a mental disorder consisting of any kind of hallucinations, bizarre and violent behaviors...and the proverbial 'split personality.'"

Just what are the symptoms that confirm schizophrenia? They vary, North says, but can include some very conspicuous behaviors and feelings, as well

phrenics recover, one-third experience periodic illness, and another third stay chronically ill.

"Schizophrenia is most likely a collection of disorders of the brain, each with a different underlying biochemical abnormality, but all producing the clinical symptoms of classic schizophrenia," North explains. Research on schizophrenia is ongoing, she points out, but real understanding of the illness will come when scientists learn more

'The cruel practice of blaming parents for causing their schizophrenic child's illness are falling into disfavor. Instead families deserve support and understanding of their tragedy.'

as some that are much less apparent. The most visible signs are: hallucinations, including hearing voices, the hallmark of schizophrenia; delusions, or fixed false beliefs, for example that the radio is sending special messages; and disordered thinking. In the last few years, scientists have realized that the less noticeable signs are just as important: apathy, lack of motivation or drive, and blunted emotional response and facial expression.

The truly schizophrenic patient must also meet several other criteria outlined by the DSM-III that indicate impairment in daily functioning and exclude other mental disorders.

Over the years, schizophrenics have endured a number of treatments, including institutionalization in stereotypical back wards and "madhouses" and psychoanalysis to resolve alleged long-hidden emotional conflicts. Probably the greatest advance came in the 1950s, when anti-psychotic medications were developed to relieve the symptoms of psychosis.

Today, anti-psychotic drugs remain the primary treatment, accompanied by patient/family education and the development of skills for coping with the illness. Roughly one-third of schizo-

about how the brain functions.

"We think this is a brain disease — or a set of brain diseases — and we need to know how the brain works before we can know how it's gone wrong. If your radio breaks and you want to fix it, you look inside at how it normally works, and then you spot the part that's not working. But unless you know something about radios to begin with, you're very likely not going to be able to figure out what the trouble is."

She is optimistic that as scientists learn more, so will the public. Already, North says, many families of schizophrenics have become quite sophisticated in understanding the disease, and are helping to educate others.

"Since one in every 100 people will become schizophrenic, almost everybody knows somebody with schizophrenia, or with schizophrenia in their family," she comments. "This is a medical illness not predisposing people to violence, and as more people recognize the facts, public opinion will slowly come around. And once the public becomes more educated, movie makers and media people are going to have to be more educated too, because the public just won't buy it."

Debra Bernardo

Immune disorders to be discussed at AOA lecture

Immunodeficiency from Hippocrates to AIDS is the topic for the 35th annual Alpha Omega Alpha (AOA) lecture May 12 at the School of Medicine.

The lecture will be delivered by Fred S. Rosen, M.D., James L. Gamble Professor of Pediatrics at Harvard Medical School and president of the Center for Blood Research in Boston. The talk, part of a three-day visiting professorship sponsored by the AOA national medical honor society, is scheduled for noon in Clopton Auditorium, 4950 Audubon.

Rosen has made major contributions to the understanding of immunodeficiency diseases during his more than 30-year scientific career. His research has focused on describing and defining the cellular and molecular basis of various immunodeficiencies, and particularly on locating and classifying the cell defects that cause these abnormalities. He has also added greatly to scientific literature on the molecular basis of the complement deficiency disorders. Complement is a natural substance in blood that functions in defenses against infection.

Rosen has published more than 200 articles on his research, and has received a number of honors, including the E. Mead Johnson Award for Pediatric Research from the American Academy of Pediatrics and a fellowship from the John Simon Guggenheim Memorial Foundation.

Masys to deliver Brodman lecture

Daniel R. Masys, M.D., director of the Lister Hill National Center for Biomedical Communications at the National Library of Medicine, will deliver the eighth annual Estelle Brodman Lecture April 29 at the School of Medicine.

The lecture, "Computers in Medicine and Biology: Present and Future," will begin at 4 p.m. in Cori Auditorium.

Masys' talk will review current uses of computers and communications technology in medicine as well as research in artificial intelligence, expert systems, and natural language processing. Of particular interest is the Lister Center's biotechnology information program for organizing the enormous amounts of data that are expected to result from molecular biology research over the next few years.

Masys served as chief of the International Cancer Research Data Bank at the National Cancer Institute, where he was responsible for technical information services. He is a diplomate of the American Board of Internal Medicine, a fellow of the American College of Physicians, and has received numerous awards for work in computer information systems.

The Estelle Brodman Lecture is sponsored by the School of Medicine Library in honor of Brodman, who served as library director and professor of medical history at the School of Medicine from 1961-81. Brodman was considered an authority in the field of information technology, and the lecture-ship was established in recognition of her achievements at Washington University and her contributions to biomedical communication and medical history.

For more information on the lecture, call 362-2773.



H. Mitchell Perry Jr., M.D., director of the hypertension clinic, explains how to redeem coupons for free heart medication to patient Ernestine Holmes.

Free heart medication program is expanded

Many St. Louisans are at high risk of dying from heart disease because they can't afford to have their prescriptions filled, but a new program is helping to remedy the situation, says H. Mitchell Perry Jr., M.D., one of the nation's leading hypertension researchers.

Washington University and three other clinics in St. Louis have recently received a combined total of \$100,000 in coupons for prescription drugs to be given to the working poor. The program provides free drugs for people who don't qualify for Medicare or Medicaid and can't afford insurance or the cost of having prescriptions filled.

The coupons are provided by G. D.

Searle & Co., the drug subsidiary of Monsanto Co. Searle launched a pilot program in St. Louis and other cities last year to help indigent people who needed medication for high blood pressure; it was so well received that the program was expanded to include the company's entire line of heart drugs.

"This much needed program by Searle is precisely the kind of program that a responsible pharmaceutical company should be involved in," said Perry, director of the medical school's hypertension division and clinic, at a press conference held April 6 to announce the program. "It will provide cardiovascular drugs to patients who

desperately need treatment, but often forego purchasing medication to pay for food and other necessities."

Individuals eligible for Searle's program receive coupons from the physician who writes the prescription. The coupons can be issued to indigent patients being prescribed Searle medications for the treatment of high blood pressure, angina, arrhythmias and congestive heart failure. Searle reimburses the pharmacy for filling the prescription.

Other clinics in the area that will be distributing the coupons are Metro Community Health Center, Family Care Center of Carondelet and People's Clinic.

Coping with cancer

Patients find needs fulfilled at information center

Visitors to the Cancer Information Center April 19 came away with brightly colored carnations, reminders from the center's staff that April is Cancer Awareness Month.

This is the third consecutive year that the center has participated in Flower Day, a program to help increase public awareness of the disease and the services that the center provides.

Increasing awareness and keeping the public informed is part of the Cancer Information Center's mission: the center, to celebrate its 11th anniversary in July, was established on the premise that cancer patients respond better to treatment when they are well informed.

"Our goal with each patient is to get them to accept their illness and to go on with their lives," says Lois Howland, the center's managing director. "We want people to have a positive attitude, and if their cancer is incurable, we encourage them to make the most of the time they have left." She recalls her acquaintance with a workaholic who was addicted to alcohol and had a grim outlook on life before he was diagnosed with cancer. "I watched him change from a hostile, angry person, to a caring, sensitive and loving person. He began spending more time with his family, took his son to ballgames and picnics and really began to enjoy life. He called me one day to say he said a prayer of

thanks every day for having cancer, because it made him stop to smell the roses."

The center not only provides informational materials, but also cosmetic items such as wigs and breast prostheses to help patients who need to boost their self image after treatment. One of its most important services, though, is the emotional support offered to patients and their families through various support programs.

The CanSurmount program, for example, matches newly diagnosed patients with volunteers who have had the same kind of cancer and can share their experiences and insights. The only program of its type in the region, it also matches families of cancer patients. For its pioneering efforts to help cancer patients and their families, the program recently received the American Cancer Society Service and Rehabilitation Award.

"Being a volunteer at the Cancer Information Center helps me as much as it does the cancer patients that I talk to," says 29-year-old Judy Imes, who began volunteer work at the center's office and with the CanSurmount program last year after her husband died of cancer. "I've experienced the grief and anxiety that a cancer patient's family endures. It's comforting for them to be able to talk to somebody like me who is sensitive to

what's happening to them and can offer suggestions based on personal experience."

Another program offered by the Center is the VIP (Very Important People) support group, which meets weekly so families of cancer patients can discuss their questions and concerns.

Gilbert Davis began using the Cancer Information Center shortly after his wife was diagnosed with cancer. The meetings, informational booklets and emotional support he received at the center were a godsend in helping him to cope with his wife's illness and make her life as pleasant as possible, the widower says. He gives special credit to Lois Howland.

"I made use of the Cancer Information Center because of Lois. She is an excellent listener and very helpful, and I felt comfortable expressing my fears and concerns with her."

Visitors are welcome at the center, located on the first floor of Barnard Hospital at the medical center. Founded in 1977 by Carlos A. Perez, M.D., professor and director of Mallinckrodt's Radiation Oncology Center, the center is sponsored by Mallinckrodt Institute of Radiology and the Barnard Free Skin and Cancer Hospital at the School of Medicine. For more information, call 362-7844.

MEDICAL RECORD

Scientific exchange with Japan to be inaugurated at symposium

A contingent of renowned scientists from Japan will visit Washington University on May 16 and 17 as part of the American inauguration of the university's unique exchange program with RIKEN, Japan's preeminent government-sponsored research institution. The visiting scientists, along with many of Washington University's own most accomplished faculty members, will present their research at a symposium titled "Signal Transduction and Intracellular Mediators". Convened in the Carl V. Moore Auditorium on the first floor of the North Building at the medical school campus, the symposium will run the full two days and is open to the entire Washington University community and to other interested scientists and students in the St. Louis area.

More than 20 30-minute presentations will be made as part of the symposium, which has been organized into three scientific sessions and concludes with a special "public forum" on the prospects and progress of the exchange program.

The scientific sessions on Monday, May 16 will be: "Receptor Interactions" and "Information Transfer from Receptors." Tuesday's science session will be "Control at the Nuclear Level."

In the spring of 1987, nine faculty members from Washington University traveled to Tokyo for the Japanese inauguration of the exchange program. The agreement is with the Tsukuba Life Science Center of RIKEN. RIKEN traditionally has conducted chemical and physical research but recently has

expanded its scope at the Tsukuba Center to include biological studies. The exchange is designed not only to foster research collaborations, but also to encourage scientists from both institutions to share techniques and teaching skills through joint meetings and exchange visits.

The agreement was forged largely through the efforts of Fumio Imamoto, Ph.D., vice director of the Tsukuba Center, and David Schlessinger, Ph.D., professor of medicine and of microbiology and immunology. Schlessinger is also director of Washington University's new Center for Genetics in Medicine. That center will be involved in one of the first collaborative efforts with RIKEN, as geneticists from Washington University share their expertise in gene cloning and RIKEN scientists in turn proffer their own mastery of gene sequencing. This aspect of joint initiatives Washington and RIKEN was formalized as a specific three-year research agreement in October 1987. It is the first formal genetics collaboration between American and Japanese research centers, and is RIKEN's first genetics collaboration outside Japan. Work done through the agreement is designed to help enhance and speed efforts to map the human genome. A discussion of this collaboration will be included in the "public forum" session on Tuesday.

For a brochure listing precise times and titles and the names of all scientists making presentations, contact the office of Medical Public Relations, 362-8258.

Cochlear implant forum to be held

Adults who are severely hearing impaired and their families are invited to learn about the benefits of cochlear implants during a forum May 13 at the School of Medicine.

The program, sponsored by the Department of Otolaryngology, is also for health care professionals who work with the severely hearing impaired. The forum will begin at 2 p.m. in Cori Auditorium, 4565 McKinley.

Cochlear implants relay sound by electrically stimulating nerve fibers in the inner ear, and are generally available only to people who receive no benefit from a hearing aid. The cochlear implant program at the School of Medicine began four years ago.

The forum will begin with brief comments from members of the cochlear implant staff who will explain the device and its benefits, as well as the requirements and procedure for implantation. The remainder of the program will be a question-and-answer session, with three patients who have received an implant at the School of Medicine on hand to field questions about their experiences.

There is a May 4 registration deadline for the program, to allow scheduling of manual and oral interpreters for those who need them. To register, or for more information, call the audiology department, 362-7489.

O'Leary honored for brain research

Dennis D. M. O'Leary, Ph.D., a neuroscientist at the School of Medicine, has received an award honoring his research on the cerebral cortex.

O'Leary has received the Krieg Cortical Explorer Award from the Cajal Club, an affiliate of the American Association of Anatomists. The Cajal Club, a select group of neuroscientists, was founded in 1946 and is named after Santiago Ramon y Cajal, considered by many to be the father of neuroscience.

O'Leary received the \$2,000 award — which honors outstanding work on the cerebral cortex and/or its connections — April 24 at the Cajal Club's annual meeting in Cincinnati. The Cortical Explorer Award is one of several that the club presents to recognize excellence in neuroanatomy research.

O'Leary is an assistant professor in the departments of neurology and neurosurgery, and of anatomy and

neurobiology. His research deals with regional specialization of the developing cortex, the area of the brain associated with higher cognitive function.

His work to learn more about mechanisms that bring out this regional specialization has suggested that a key role may be played by the thalamus, a collection of nerve cells through which sensory impulses are passed on to the cortex. One of the ways O'Leary is approaching the issue is to study connections made between nerve cells in transplants of fetal cortex and the host brains.

His research is being conducted through the McDonnell Center for Studies of Higher Brain Function at Washington University. The center was established in 1980 through a gift from the McDonnell Foundation to provide the resources and environment for an interdisciplinary approach to understanding the brain's function.



Fund for minority students: The Mound City Medical Forum, a professional organization of black physicians in St. Louis and a component society of the National Medical Association, has established the Minority Student Emergency Loan fund for students at the School of Medicine. The fund will provide short term, no interest loans to minority students when no other funds are available. Robert Lee, Ph.D. (third from left), assistant dean for minority student affairs, accepted a \$5,000 check to establish the fund from (left to right) forum president Nathaniel H. Murdock, M.D., clinical instructor in obstetrics and gynecology, and forum representatives Robert B. Holloway, M.D., instructor in anesthesiology, and Bernard Randolph, M.D., a private practitioner.

\$350,000 awarded to Nussbaum for cancer treatment study

Gilbert H. Nussbaum, Ph.D., associate professor of radiation physics in radiology at Mallinckrodt Institute of Radiology, has been awarded a grant for \$350,000 from the National Cancer Institute.

The five-year grant will support a preclinical study of the use of vasodilator drugs — which enlarge the openings of blood vessels — to improve hyperthermia, or heat treatment of deep-seated tumors. In hyperthermia applications, the tumor temperature typically is raised to 42.5 degrees Centigrade. The cooling rate of the tissue being heated is

directly proportional to the blood-flow rate in the tissue. In the research to be conducted, the presumed improvement in tumor hyperthermia will be obtained through vasodilator-induced shunting of blood from tumor to normal tissue, thereby making the tumors easier to heat. This diversion is expected to occur because of the substantially reduced capacity for dilation of blood vessels in tumors in comparison with that in normal tissue.

Nussbaum and fellow researchers Bahman Emami, M.D., professor of radiology and E. Kaye Smith, D.V.M., assistant professor of pathology, will investigate the distributions of perfusion (blood flow) rates and elevated temperatures in tumors and normal tissues in the absence and presence of vasodilator drugs.



Gilbert H. Nussbaum

Cuatrecasas to deliver Lowry lecture

Pedro Cuatrecasas, M.D., senior vice president of research and development at Glaxo Inc., will deliver the 11th annual Oliver H. Lowry Lecture in Pharmacology May 12 at the School of Medicine.

Cuatrecasas will discuss the role of phosphoinositidylglycans in membrane anchoring and action of insulin. Phosphoinositidylglycans are inositol containing sugar phosphates that recently have been found to couple certain proteins to the cell membrane. Recent experiments performed in Cuatrecasas' laboratory suggest that one such glycan is released when insulin binds to its receptor in the cell membrane, serving as an intracellular mediator of insulin action. The lecture, open to all members of the medical profession, will begin at 4 p.m. in the Carl V. Moore Auditorium, 660 S. Euclid Ave.

Cuatrecasas, world renowned for his research on hormone-receptor interactions and cell communication, has been with Glaxo since 1986. He was vice president of research and director of the Burroughs Wellcome Co. for 11 years, and from 1970-75 was director of the Division of Clinical Pharmacology at

the Johns Hopkins University.

He received his bachelor's degree Phi Beta Kappa and medical degree magna cum laude, Alpha Omega Alpha from Washington University. He completed an internship and residency in internal medicine at the Johns Hopkins University followed by postdoctoral training at the National Institutes of Health.

Cuatrecasas has received numerous distinguished awards, including the John Jacob Abel Prize in Pharmacology, Eli Lilly Award of the American Diabetes Association, Goodman and Gilman Award and election to the National Academy of Sciences.

The Lowry Lecture is sponsored by the Department of Pharmacology to honor Oliver H. Lowry, M.D., Ph.D., distinguished professor and lecturer. Lowry served as head of the department from 1947-76 and as dean of the School of Medicine from 1955-58. As a member of numerous national scientific committees, Lowry widely influenced research in medical science, particularly in the areas of neurobiology, neurochemistry, mental retardation and analytical biochemistry.

PERSONNEL NEWS



Elevator access: The four-level building that houses the George Warren Brown School of Social Work has been made accessible to the handicapped with the installation of an elevator. The installation of the elevator in Brown Hall represents a continuing effort by the University Committee on Policies and Practices Affecting the Physically Handicapped to make the campus accessible to the mobility impaired.

Arts and Education fund drive is on

"Give the Arts a Hand" is the theme for the 1988 Arts and Education Fund Drive. Celebrating 25 years, the Arts and Education Council of Greater St. Louis has given local arts organizations a helping hand, providing St. Louis area residents with an exciting array of music, dance, theater and art.

Chancellor William H. Danforth has written a letter to the Washington University community in support of the fund drive. The letter follows:

Dear Colleague:

Each year the Washington University community responds generously to the fund drive for the Arts and Education Council. Part of the reason for this generous response is undoubtedly our understanding of the goals of the Council and the importance of the arts to any community.

Eight parts of Washington University are considered "member agencies" of the Arts and Education Council of Greater St. Louis. This status enables them to receive project grants from the

Camelot/Special Project Fund.

The recipients of the money raised by the campaign are the Opera Theatre of St. Louis, Repertory Theatre of St. Louis, St. Louis Conservatory and Schools for the Arts, Young Audiences' St. Louis Chapter, KETC, Dance St. Louis, Craft Alliance Education Center, and Mark Twain Summer Institute.

In each case Arts and Education funding is an essential part of the agency's budget. This year's campaign goal is \$2,450,000, an increase of 4 percent over last year. Of that total the education sector's goal is \$85,000.

Yours sincerely,
William H. Danforth
Chancellor

REMINDER: Contributions or pledge cards should be mailed to The Arts and Education Council of Greater St. Louis, 40 N. Kingshighway, St. Louis, Missouri 63108. Additional contribution cards are available in the Personnel Office. Contributions can be made through payroll deduction.

Health and life insurance updates

The University health and dental insurance contribution will increase from \$92 to \$110 per month for active full-time employees as of July 1, 1988, and from \$46 to \$55 for active part-time employees working 50 percent time or more and have one year of service. The University contribution for union employees will be in accordance with the union contract.

The University provides non-union retirees with \$5,000 of paid-up life insurance if they are insured for the optional life insurance immediately prior to retirement. This benefit is also provided for Bridge Benefit participants at the end of the bridge benefit period whether or not they have optional insurance.

Employee discounts are available

The General Services/Purchasing Department recently has published a list of vendors who have agreed to offer discounts to Washington University faculty and staff.

General Services cautions that because of the many discount stores in the St. Louis area and special seasonal sales, there could be better sources of supply, thus comparative shopping is advisable.

Individuals who elect to take advantage of the available discounts

should be aware of the following conditions:

1. A valid Washington University identification card (ID) must be presented
2. All transactions will be on a cash basis
3. Sales tax is applicable on all personal purchases
4. The Washington University Purchasing Office cannot become involved in the transaction.

List of vendors who extend discounts to faculty and staff

Product	Company	Contact	Discount
Art Supplies	Baders 1113 Locust 421-2870 8007 Maryland 862-6980 177 Concord Plaza 842-0114	Jim Goldkamp Ernie Jones	10% from list
Automobiles		Call 889-5653	Varies
Automobile-Rental	National 821-4129	Call 889-5642 For reservations 1-800-CAR-RENT	Varies
Carpet/Floor Covering	Anchor Floor Co. 10725 Midwest Industrial 426-5606 Stephens Floor Co. 3132 Watson Road 645-0219 Colonial Carpet Co. 6191 Delmar Blvd. 726-3281	Dick Bagy Jerry Blanke Bill Schiller	Varies Varies Varies
Computers	Forsythe Computer 7748 Forsyth 721-4300 Campus Bookstore Ext. 5394	Jim Rose	Varies
Electronic/Video Equipment	Photo & Sound Co. 1970 Congressional 432-7190 Tipton Appliance	Charlie Johnston Gary Grath Purchasing 889-5653 Dave Roth	Varies Varies Varies
	VMI Inc. 2368 Schuetz Road 569-1334		
Eyeglasses	Erkers Optical Co. 908 Olive Street 241-9410 Benson All Branches Nationwide 533-1760 Barnes Hospital Branch Key Optical Co. 314 N. Broadway, Suite 824 621-8545	All stores present WU ID Present WU ID Present WU ID Mike Harris	10% 15% 20% 20%-Full Service Exam \$15
Fire Extinguishers	Alber Fire Protection 4618 Macklind 352-1617	Russell Alber	University cost
Furniture (Office and/or Lounge)	Broadway Office Interiors 2115 Locust 421-0753 Interiors Unlimited 3407 Olive 534-6100	Paul Friedman Ed Berry	Varies Varies
Lighting Supplies, Tables, Floor Lamps, Fixtures & Bulbs	Villa Lighting 4155 Manchester 531-2600	Present WU ID	10% off store price
Office Equipment EDC		Sue Claeys	Varies
Typewriters, Supplies, Dictating Equipment, Calculators	201 So. Kirkwood 966-6116		

Continued on p. 8

Personnel News

Personnel News appears monthly in the Record and is prepared by Gloria W. White, associate vice chancellor for personnel and affirmative action, and other members of the Personnel Office. Personnel News is designed to keep Washington University employees and their families informed of the benefits and opportunities available at the University.

CALENDAR

April 28-May 7

LECTURES

Thursday, April 28

4 p.m. Dept. of Germanic Languages and Literatures Readings from Hanns-Josef Ortheil, Max Kade Writer-in-Residence at WU. Ortheil will read from his novel *Schwerenoter*. 320 Ridgley.

4 p.m. Dept. of Chemistry Seminar, "Close Collisions of Light Complex Nuclei: Orbiting and Fusion," Daniel Shapira, physics division, Oak Ridge National Lab. 311 McMillen.

Friday, April 29

9 a.m.-1 p.m. George Warren Brown School of Social Work Morris Wortman Institute on Marriage and Family Education, "Families in Transition." Brown Hall Lounge.

9 a.m. Oral Examination for the Doctoral Degree for Simonetta Simonis, Dept. of Biological Sciences (integrative and cell biology). The dissertation title: "Molecular Assembly, Post-Translational Processing and Surface Expression of Class II MHC Antigens." 775 McDonnell Science Bldg.

3 p.m. Oral Examination for the Doctoral Degree for James Turner Voyvodic, Dept. of Biological Sciences (neural sciences). The dissertation title: "Development and Regulation of Dendritic Geometry in the Rat Superior Cervical Ganglion." 928 McDonnell Science Bldg.

4 p.m. The Eighth Estelle Brodman Lecture, "Computers in Medicine and Biology: Present and Future," Daniel R. Masys, director of the Lister Hill National Center for Biomedical Communications, National Library of Medicine. Cori Aud., McDonnell Science Bldg.

Monday, May 2

10 a.m. Oral Examination for Doctoral Degree for Scott Louis Myers, Dept. of History. The dissertation title: "Uruguay: The Traumatic Years, 1967-1987." 113 Busch.

4 p.m. Dept. of Biology Seminar, "93D, a Novel Sort of Heat Shock Locus in Drosophila," Mary Lou Pardue, Dept. of Biology, MIT. 322 Rebstock.

Friday, May 6

Noon. Oral Examination for the Doctoral Degree for Forbes Dennison Porter, Dept. of Biological Sciences (molecular biology). The dissertation title: "Purification and Characterization of a Phosphatidylinositol 4-Kinase From Bovine Uteri." 8841 Clinical Sciences Research Bldg.

1 p.m. Oral Examination for the Doctoral Degree for Steven Michael Gibson, Dept. of Music. The dissertation title: "Approaches to Creativity in the Middle School General Music Class: A Comparison of Music and Multiple Arts Experiences." Blewett B-2.

6 and 8:30 p.m. WU Film Travel Lecture Series, "Scotland," Fran Reidelberger, filmmaker. Graham Chapel. For ticket info., call 889-5122.

PERFORMANCES

Thursday, April 28

8 p.m. The WU Dance Theatre Concert of works by the student composition class. (Also April 29 and 30 and May 1.) Mallinckrodt Center Dance Studio, Room 206. Tickets are \$2 for students, faculty and staff; \$3 for the general public. For info., call 889-5858.

Friday, April 29

8 p.m. Edison Theatre Presents the Metro Theater Circus in "Songs of RiverMagic" and "The Hunting of the Snark." (Also 2 p.m. and 8 p.m. Sat., April 30, Edison.) Matinee performance only features "Songs of RiverMagic." Admission is \$8 general public; \$6 for senior citizens, students and children. Matinee is \$4 for general public and \$3 for children.

MUSIC

Thursday, April 28

8 p.m. Dept. of Music WU Small Chamber Ensemble Concert. Tietjens Rehearsal Hall.

Saturday, April 30

4 p.m. Dept. of Music Voice Recital with Robert O'Connor, baritone. McMillan Cafeteria.

Monday, May 2

8 p.m. Washington U. Mixed Choir Concert. Graham Chapel.

Wednesday, May 4

8 p.m. Dept. of Music Presents Dan Presgrave Ensemble and pianist Seth Carlin featuring Leos Janacek's "Concertino" and Dvorak's "Serenade

for Winds." Steinberg Aud. General admission is \$10; students, \$5.

Thursday, May 5

7 p.m. Dept. of Music Presents pianist Eva Solar-Kinderman, featuring the works of Janacek and Smetana. Steinberg Aud.

8 p.m. Dept. of Music Presents "Duets From Czech Folk Poetry" featuring works by Janacek, Dvorak, Martinu and Kapral. Mary Henderson, mezzo-soprano; Carole Gaspar, soprano; and B.J. Clutter, piano. Steinberg Aud. Admission is \$5.

Friday, May 6

1 p.m. Dept. of Music Presents Leos Janacek's "The Diary of One Who Vanished." Mary Henderson, mezzo-soprano; David Adams, associate prof. of voice, U. of Cincinnati's College Conservatory of Music; and Kenneth Griffiths, piano, U. of Cincinnati. Women's Bldg. Lounge.

Saturday, May 7

1 p.m. Dept. of Music Presents pianist Linda DiGiustino performing Janacek's piano cycle "On the Overgrown Path" and the works of Josef Suk and Vitezslav Novak. Brown Hall Lounge.

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.

"Highlights From the Philip Mills Arnold Se-miology Collection." Through July 31. Olin Library, Special Collections, level 5. 8:30 a.m.-5 p.m. weekdays.

"MFA Exhibition," works by WU master of fine arts candidates. Gallery of Art, upper galleries. Through May 1. 10 a.m.-5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 889-4523.

"Images by Illustrators," co-sponsored by the School of Fine Arts and B'nai B'rith Hillel Foundation. Through May 6. Hillel House, 6300 Forsyth Blvd. 9:30 a.m.-4:30 p.m. weekdays.

FILMS

Thursday, April 28

7, 8:15 and 9:30 p.m. WU Filmboard Series, "The Cabinet of Dr. Caligari." \$2. Brown Hall.

Friday, April 29

7 and 9:30 p.m. WU Filmboard Series, "Chariots of Fire." \$2. Brown Hall. (Also Sat., April 30, same times, and Sun., May 1, at 7 p.m., Brown.)

Monday, May 2

7 and 9:30 p.m. WU Filmboard Series, "Spell-bound." \$2. Brown. (Also Tues., May 3, same times, Brown.)

Wednesday, May 4

7 and 9:15 p.m. WU Filmboard Series, "Shakespeare Wallah." \$2. Brown Hall. (Also Thurs., May 5, same times, Brown.) For more info., call 889-5983.

Saturday, May 7

8 p.m. Dept. of Music Presents American film premiere of "Lev's bilou hrivou" (The Lion With the White Mane), a feature length film on composer Leos Janacek directed by Jaromil Jires. St. Louis Art Museum in Forest Park. General admission is \$2; Friends of the Art Museum, \$1.

SPORTS

Friday, April 29

3 p.m. Men's and Women's Track and Field, WU Invitational. Francis Field.

Saturday, April 30

9 a.m. Men's Tennis, WU vs. Gustavus Adolphus College. Tao Tennis Center.

MISCELLANY

Thursday, April 28

4 and 7 p.m. School of Fine Arts Fashion Show with Famous-Barr. "Hot Couture." Fashions by fine arts juniors and seniors in apparel design. Center of Contemporary Arts, 524 Trinity, University City. Admission is \$5 for the afternoon show and \$8 for the evening show and reception. For reservations, call 889-6500.

Friday, May 6

Noon. WU Woman's Club Spring Luncheon. Berry Farrell will show a film about Clydesdale horses and speak about his career as a breeder. Racquet Club-Ladue, 1600 Log Cabin Lane. A cash bar will open at 11:30 a.m., followed by the luncheon at noon and program at 1 p.m. The cost is \$10.50 for club members and \$11 for members' guests. The deadline for reservations is Tuesday, May 2. For more info., call Joy Guze at 663-6963 or Elizabeth Nicholas at 725-7965.

Calendar Deadline

The deadline to submit items for the May 12-21 calendar of the Washington University Record is April 28. 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.

Monumental task — continued from p. 1

tory, founded by Weil at Washington University in 1975, has treated many sculptural works in private and public collections. Its projects have included conservation of public monuments in New York City's Central Park, and conservation of the 13-figure "Washington Monument" in Richmond, Va., one of the oldest public monuments in the United States.

Three years ago, the WUTA team even found themselves 326 and a half feet in the air, working on the Goddess of Liberty sculpture perched atop the Texas State Capitol. More recently, they worked atop the 285-foot high Indianapolis Soldiers' and Sailors' Monument, treating a 38-foot tall statue, "Liberty,"

Dance concert set

The Washington University Dance Theatre will present works by the student composition class in a concert at 8 p.m. Thursday through Sunday, April 28 - May 1, in the Mallinckrodt Center Dance Studio, Room 206.

Co-sponsored by the student drama society Thyrsus and Student Union, the concert will feature dance compositions choreographed by the students.

A group dance to the music of "Snaredrum for Camus" by Joseph Celli will be presented during the concert, which is being produced by Julia Baumgarten, a sophomore dance major. Jennifer Gwartz, a sophomore fine arts major, will serve as assistant producer.

Tickets are \$2 for students, faculty and staff; \$3 for the general public.

For more information on the concert, call 889-5858.

and several thousand decorative items including bronze sculpture and stamped sheet copper ornaments.

The risks and excitement are fun, Weil admits, but are always the least of the rewards. While working on the Cranbrook Milles project, she most enjoyed simply "revealing the inherent sculptural quality of the works."

"Conservation is a satisfying experience," she explains, looking around at Milles' art. And in the case of the eight sculptures with new attractively modulated green patina, Weil notes, "the authentic, joyful message of Milles' art can be enjoyed again."

Ed Paletella

Vendor list — continued from p. 7

Product	Company	Contact	Discount
Office Supplies	Buschart Brothers 7929 Forsyth Blvd. 726-0244	Ron Walts	15% (cash) off manufacturer's list price
Paints, etc.	Brod Dugan Check Yellow Pages 5 locations General Office: 567-1111	Present WU ID	12% off list on paint, brushes, etc., 10% off on wallpaper
Party and Hospital Supplies-Rental	Weinhardt Rentals 11601 Manchester Road 822-9000	Ed Weinhardt	Varies
Photo Supplies	Abbey Medical 7201 Manchester 862-6600 O.J. Photo 17 N. Meramec 726-6151	Present WU ID Paul Stevens Show WU ID	Up to 35% off Dark room supply 10% off; film and paper 5%; Cameras best sale price; camera equipment negotiable
Recreational Facilities	St. Louis Photo 3400 Lindell Blvd. 535-6040 Shaw Park Clayton, Mo 721-7442	Show WU ID	
NOTE: Hilltop Campus Only (per instructions received from Clayton Recreation Dept.) Refrigerator/Freezers	Clayton-Shaw Community Center #2 Mark Twain Circle (1st street past Forsyth & Brentwood)	Present WU ID Pass will be issued. Nominal fee will be charged each time pass is used. Pass must be Community Center, not at pool. Call 889-5653	Non-resident Pass Monday-Friday. Pool, Tennis Courts, Ice Skating Rink. Varies