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The Rock-o-Plane lights up the night at the 1964 Thurtene Carnival, one of many photographed by Herb Weitman, director emeritus of photography, during the past 50 years. (University Archives)

Thurtene Carnival continues a near-century of tradition

"Step right up, ladies and gentlemen, boys and girls! For a mere 10 cents — just one thin dime — you, too, can bear witness to the 'Grand Gigantic Galaxy of Gorgeous Glittering Generalities.' That's right, behold aerial acrobats, mystifying magicians and tenacious tightrope walkers. And gaze and gape and gawk, if you dare, at Wahsousa, The Three-legged Wonder. ..."

So went the banter 90 years ago as the first "Younnivee Surrkuss" was staged May 9, 1907, at Francis Field.

The proverbial grandfather to the modern-day Thurtene Carnival, the Younnivee Surrkuss was conceived by Pralma, Washington University's then-senior-men's honorary. The seven-hour festival was run much like a real circus and featured side shows and a main attraction. General admission was 10 cents, side shows were a nickel,

and the proceeds were donated to the Athletic Association. Dual performances of the main show were highlighted by a tightrope act and a quartet that sang "Won't You Fondle Me?" backwards. The side shows — which included Wahsousa, The Three-legged Wonder — made outrageous claims of dubious sincerity. Wahsousa, alas, turned out to be a three-legged chair chained to a post.

A crowd of 400 made the event a roaring success.

Nearly a century later, the Thurtene Carnival does bear some familial resemblance to its enterprising ancestor. Charity, comradeship and good clean fun still are the driving forces. But Wahsousa has given way to Ferris wheels. The flapping "Big Top" has been replaced by sturdily constructed facades. And the crowd of 400 has swelled to a two-day throng of about 80,000.

Continued on back page

'It's For the Kids!' on April 19-20

Funnel cakes, facades, and the Phi Delt movie. Throw in Ferris wheels and fun, and you've got the main ingredients for the uniquely Washington University recipe known as Thurtene Carnival.

This year's event, which continues the tradition of the nation's oldest and largest student-run carnival, will be held from 11 a.m. to 8 p.m. Saturday and Sunday, April 19 and 20, in the North Brookings Hall parking lot at Millbrook and Skinker boulevards. There is no admission fee, but tickets are required for the rides. The theme of the event is "It's For the Kids!"

Popular traditions of Thurtene Carnival will continue, including six facades (scenic walls from which students perform skits), 14 major rides (five of them for children), a spread of food ranging from ethnic edibles to chocolate-covered bananas, and more than 10 games.

Proceeds from Thurtene Carnival benefit Cornerstone Center for Early Learning, an inner-city center that provides high-quality, affordable and comprehensive care and education to children.

For more information, call (314) 935-3125.

Professor emeritus Kurt Hohenemser finds answers in the wind

On those rare dry Missouri days with gusts up to 30 mph, Kurt H. Hohenemser is gone with the wind.

Hohenemser, Dr. Ing., professor emeritus of aerospace engineering, scurries into his car and drives Interstate 44 some 16 miles from his home to gather wind turbine data at Washington University's Tyson Research Center. A trail through Tyson's oak-hickory-cedar forest leads to a 60-foot-tall tower that holds a 25-foot-diameter wind turbine Hohenemser designed about two decades ago. The turbine's rotor, patterned after that of a helicopter, needs testing in its various configurations in gusts up to 30 mph. This is a condition — in the absence of thunderstorms or snowstorms — that occurs at Tyson only a few times a year.

At such turbulent times, Hohenemser receives a research windfall. "The best times are spring and fall," he said. "In summer, high winds occur only in thunderstorms. Moisture and humidity disrupt the electronics."

Various electronic devices attached to the wind turbine relay data to a nearby shed. There, Hohenemser videotapes the data — represented by motions of seven different light points generated in an obsolete oscillograph for which Eastman Kodak Co. stopped producing light-sensitive paper years ago. In a long videotape, Hohenemser is happy to find a few minutes of suitable data that will take him hours to analyze.

Hohenemser, who became professor emeritus in 1975, gathers electric energy while the wind blows. He is seeking proof that a properly designed

helicopter-type rotor with its helicopter-type controls is more suitable for wind turbines than commonly used propeller-type rotors. Even in areas with high average wind speeds, wind power plants are not yet a clear economic alternative to fossil fuel or nuclear power plants. Thus, improvements in wind turbine designs are important.

An aviation analyst

There are several remarkable aspects of Hohenemser's research. The first: He is 91 years old and has been gathering data at the Tyson site since 1980.

The second: Since 1985 he has conducted the research without being funded. The third: The design of the wind turbine arose from his pioneering work in helicopter research and development, which launched an amazing career during a dramatic historic era.

While the term "pioneering" often is used loosely to describe researchers, that is not the case with Hohenemser. He began designing and testing helicopters with the Flettner Aircraft Co. in Berlin in 1935 when the concept was being explored by the famous German inventor Anton Flettner and the only competition came from another famous German helicopter developer, H. Focke.

"When I began work on helicopters, Flettner had developed some ideas about

possible helicopter types, but the actual product didn't even exist," Hohenemser said. "He was ingenious as an inventor, but he was not an analyst. I did the analysis for his inventions. I told him which ones worked and which ones didn't."

The association with Flettner lasted a dozen years and happened in a roundabout way owing to a different turbulence — the turmoil of Germany with the rise of Adolf Hitler. Hohenemser received his doctorate in engineering in 1929 from the Institute of Technology,

Darmstadt, Germany. He began teaching and researching applied mechanics at the University of Gottingen, Germany, the following year. In 1933, Hohenemser was abruptly relieved of his

academic duties within a week of Hitler's election as chancellor.

"I had organized a small discussion group that met regularly and had invited a young research assistant whom we all knew to be a Nazi," Hohenemser recalled. "We were quite critical of Hitler but didn't think our discussions would be of any consequence. After Hitler came to power, the acquaintance reported our critical attitude toward Hitler to the police, and we were henceforth forbidden to enter university ground. We all thought we knew the

While the term
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young man pretty well and had no idea that he would do something like that."

Hohenemser landed on his feet by helping design aircraft for a well-known German stunt flier and then began his association with Flettner who, like Hohenemser, came to the United States after World War II. Hohenemser's harrowing war experience — which included fleeing with his young family from bombed-out Berlin first to Silesia then to a monastery in southern Germany — set the stage for his discovery in America.

An American engineer published in English Hohenemser's reports on the design of the Flettner helicopter. The exposure made Hohenemser well known in American aeronautical circles, and he came to the United States in

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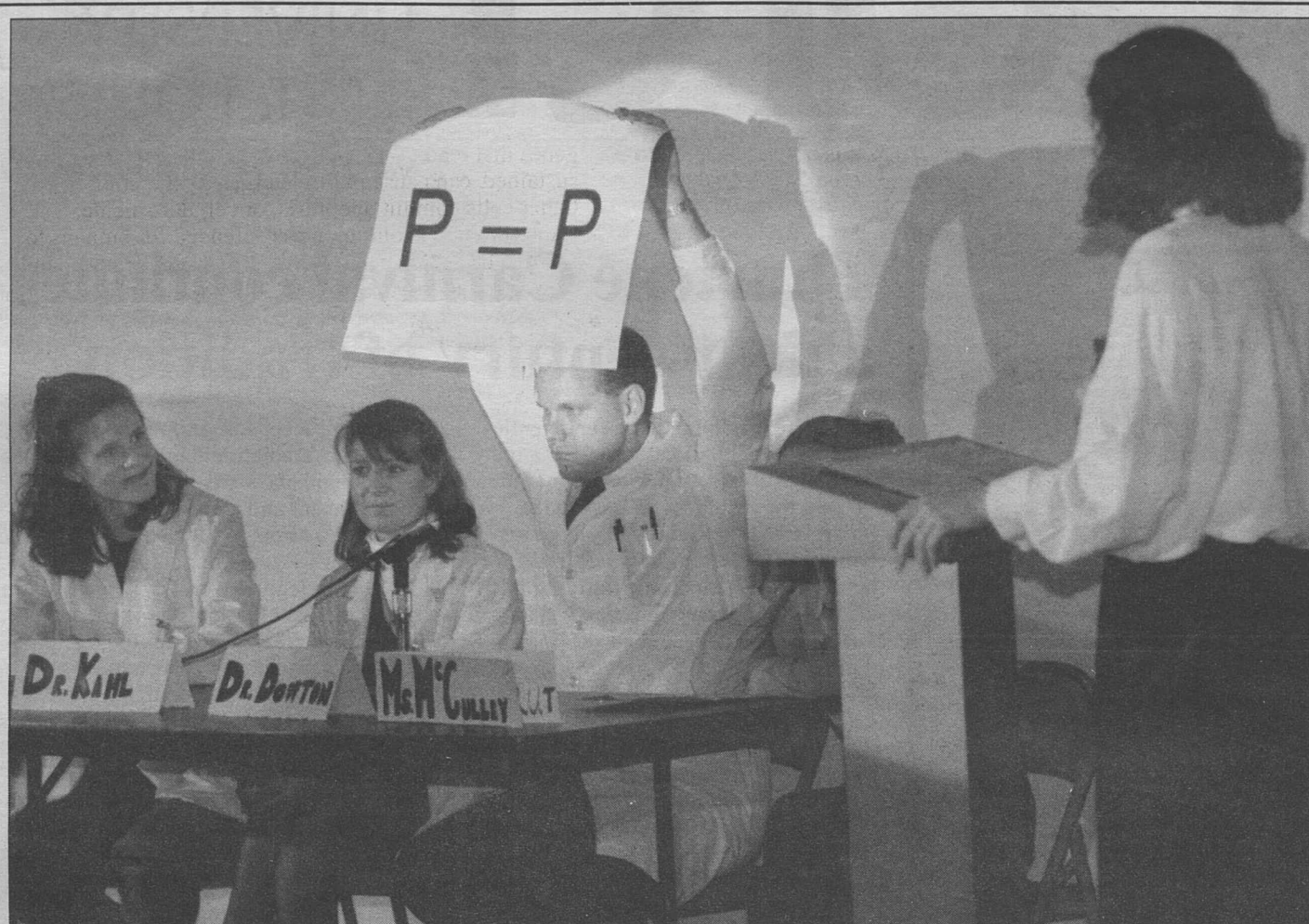
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Saving lives in the trauma room is just another day at the office for Timothy G. Buchman, M.D., Ph.D.

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Nobel Prize-winning physicist Leon Lederman will deliver this year's Feenberg Memorial Lecture

Medical Update



'Dowton's Kids'

In the Class of 1999 Show on April 6, second-year students, from left, Jen Smith, Maureen Farrell, Tim Root, Julie Schwartz and Karen Woolf, perform in a skit imitating School of Medicine faculty. The title of the class show, which was a take-off on telethons, was "Dowton's Kids." S. Bruce Dowton, M.D., is associate dean for medical education. The annual event took place in Moore Auditorium.

Older adults burn less fat during exercise

Many automobiles don't come with spare tires anymore, but many of us already have them. We couch potatoes often loll in front of the television instead of taking our extra pounds for a jog around the block. But new research shows that inactivity is not the whole problem. When an aging couch potato waddles into the gym to exercise, those extra pounds are harder to lose, partly because muscles lose the ability to burn fat as people get older.

Researchers at the School of Medicine and at the University of Texas Medical Branch in Galveston reached this dismal conclusion. They reported their results in a recent issue of the *American Journal of Physiology — Endocrinology and Metabolism*. In the study, they found that older people burn less fat than younger people when the two groups do similar exercise.

Principal investigator Samuel Klein, M.D., associate professor of medicine and director of the Center for Human Nutrition at Washington University, compared six adults whose average age was 73 with six adults whose average age was 26. Both the young and the old subjects were sedentary and not exercising regularly at the time of the study, which was supported by grants from the National Institute of Diabetes and Digestive and Kidney Diseases.

The researchers monitored fat and carbohydrate break-down products in blood samples from the two groups while the subjects peddled stationary bikes for 60 minutes. Measuring oxygen consumption, the investigators learned how hard the two groups were able to exercise. The older subjects were asked to peddle at a rate that made them consume oxygen at half their maximum rate. The younger subjects also peddled at half their maximum rate so that they could exercise at the same relative intensity as the older adults.

Klein and fellow investigators also observed the study subjects when they peddled at speeds that made them consume identical amounts of oxygen — the same exercise intensity. During the one hour of exercise at the same absolute intensity, the elderly subjects oxidized less than one-third as much fat as their younger counterparts.

"The older people had a decreased ability to oxidize fat during exercise, both at the same absolute exercise intensity — the same exact workload — and at the same relative intensity, which is a lower workload because older people tend to be less fit than younger people," Klein said.

Substituting fuels

Average fat oxidation was 25 to 30 percent lower in the older people than in the younger people at both the same absolute and the same relative intensity. As a consequence, carbohydrate oxidation was 35 percent higher. "Carbohydrate and fat

"It appears the muscle
tissue of older people
is not able to — or
prefers not to — oxidize
fat as a fuel."

— Samuel Klein

are the two major fuels used during exercise — glucose from carbohydrate and fatty acids from fat," Klein said. "If you use less fat as a fuel, you automatically use more carbohydrate. So it makes sense that if elderly muscles have difficulty converting fat into energy, they have to use more carbohydrate to compensate."

In the young adults, about one-half of the fuel metabolized during exercise came from fat, with the other half from carbohydrate. In the elderly subjects, about two-thirds came from carbohydrate and only about one-third from fat.

Klein said burning carbohydrate rather than fat is not unhealthy. It simply substitutes one fuel source for another. But increased use of carbohydrate makes it harder for people to continue their workout. Carbohydrate oxidation leads to quicker fatigue and depletes blood sugar levels more rapidly, he said. As a result, sedentary elderly people cannot exercise for as long as sedentary young people.

The physiologic reasons that elderly people burn less fat are not known. Klein's team did not find any defect in the ability to mobilize body fat. There was little resistance of body fat to catecholamines, the hormones used to mobilize fat tissue for conversion to energy, and fat breakdown produced plenty of fatty acids for muscle to oxidize.

Klein believes the answer lies in the muscles themselves. "It appears the muscle tissue of older people is not able to — or prefers not to — oxidize fat as a fuel," he said.

Changes that occur in aging muscle might help explain why our muscles no longer oxidize fat as they did when we were younger. Muscle cells lose some of their mitochondria, the cellular structures that produce energy. Loss of mitochondria might contribute to a loss in the ability to oxidize fat.

The good news

But even before the precise mechanisms are understood, there's good news for elderly people. The paper mentions that an intensive 16-week exercise program helped the elderly subjects oxidize fat more like younger participants.

"If older people train rigorously for about four months, they have more normal patterns of fat oxidation," Klein said. "It comes back to about where it is in younger adults. Apparently, training either corrects the defect or compensates for it in some way."

Normal muscles use two sources of fat. There is the fat our bodies store in adipose (fat) tissue. It is broken down and released into the bloodstream, which delivers it to muscles. The second source of fat comes from muscles themselves. Muscle tissue contains its own triglyceride droplets, so it can oxidize fat as a fuel directly during exercise.

This study did not determine whether aging muscles have more trouble oxidizing fat from the bloodstream than fat stored in muscle or vice versa, but Klein now is starting to evaluate the use of intramuscular triglycerides and plasma fatty acids during exercise in elderly subjects.

— Jim Dryden

Joel Cooper named cardiothoracic surgery division director

Joel D. Cooper, M.D., the Joseph C. Bancroft Professor of Cardiothoracic Surgery, has been named director of the Division of Cardiothoracic Surgery.

The appointment, effective June 1, was announced by Samuel A. Wells Jr., M.D., the Bixby Professor of Surgery and department chair.

"Dr. Cooper has earned a worldwide reputation as an innovative surgeon, but he also is a talented administrator and an excellent teacher," Wells said. "We are excited to have him lead the Division of Cardiothoracic Surgery."

Cooper serves as chief of thoracic surgery at Barnes-Jewish Hospital. He is a renowned lung surgeon whose pioneering



Joel D. Cooper

techniques have led to marked progress in the treatment of lung disease. Cooper completed the first successful single-lung transplant and the first double-lung transplant. He also developed lung volume-reduction surgery,

an operation that greatly improves the breathing capacity of emphysema patients.

An author or co-author of nearly 300 scientific articles, Cooper has served on many medical advisory and editorial review panels in the surgical field. He is a member of 20 medical societies. Recently, he received the Jacobson Innovation Award from the American College of Surgeons, an award that honors living surgeons who have developed new surgical techniques.

Previously a professor of surgery at the University of Toronto, Cooper joined the School of Medicine faculty in 1988.

Cooper succeeds James L. Cox, M.D., the Evarts A. Graham Professor of Surgery, who has accepted a position as chief of the Section of Cardiothoracic and Vascular Surgery and director of the Georgetown Cardiovascular Institute at Georgetown University Medical Center. In the past 14 years, Cox has built a program with an international reputation and recruited outstanding faculty for the division.

Record

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 **Washington**
WASHINGTON UNIVERSITY IN ST. LOUIS

Washington People

Buchman thrives on the challenge of saving lives

On a summer day in 1995, a professional motorcycle racer hit a guardrail at 120 mph, crushing his lungs and pelvis. The same day, an obese diabetic woman went to the hospital with severe stomach pain. Flesh-eating bacteria were destroying her abdominal wall.

Also on that day, a young U.S. Air Force officer smashed his liver in a car crash. Doctors weren't sure they could stop the internal bleeding.

Timothy G. Buchman, M.D., Ph.D., professor of surgery, of anesthesiology and of medicine, treated all three of these patients after other hospitals sent them to Barnes-Jewish Hospital. As a trauma surgeon and chief of the Burn, Trauma and Surgical Critical Care Section of the Department of Surgery, Buchman can't predict what calamity he'll see next. He just waits for the next patient and does what he can.

One of those three patients died. But two are walking around today with few physical signs of the experience.

"What's most appealing about our Intensive Care Unit (ICU) is we can take deathly ill patients and send them home," Buchman said. "It's an enormous intellectual challenge, and it's immensely rewarding."

Winter in St. Louis means blunt trauma from falls and car crashes. Perhaps a family will be seriously burned while huddling around a kerosene heater. In the summer, area residents start getting stabbed and shot. They squirt outrageous amounts of lighter fluid on hot barbecue grills. They also drink and drive. Through it all, the ICU manages to keep its survival rate above 95 percent, and it has maintained its status as the premier trauma center in the region. "If it can't be done at Washington University, it can't be done anywhere," Buchman said.

The first hospital that saw Jeff Eklund after his motorcycle crash couldn't handle his injuries. A 120-mph meeting with a wall does incredible damage. He was bleeding to death in his pelvis, and his crushed lungs weren't getting air. That hospital sent him to the Barnes-Jewish Trauma Center.

By the time he arrived, Eklund's skin was dark blue. The trauma team inserted a breathing tube, and the orthopaedic surgeons drilled pins into his pelvis, attaching a metal frame to Eklund to keep his bone fragments together. Interventional radiologists snaked a catheter up his pelvic artery, successfully creating a clot that stopped the bleeding. Eklund's skin remained blue, and Buchman knew that standard ventilation wouldn't be enough. In desperation, Buchman tried a then-experimental therapy using nitric oxide gas. Eklund began to get just enough oxygen to survive.

Six weeks later, Eklund flew home to California to start the long process of rehabilitation.

"This is a kid who came in here literally breathing his last breath," Buchman said. "Without the resources and expertise we have here, he would have died — no question."

Buchman recently received a picture of Eklund, now 28, water-skiing. "I wanted him to see how far I've come," Eklund said from his home in California. "He didn't give up on me, and I owe my life to him." Eklund has some trouble moving his right arm, but he said he plans to start racing again soon.

'A personal epiphany'

Buchman once seemed destined to spend more time with organic molecules than with mangled motorcycle racers. A native of New York City and son of an obstetrician/gynecologist, Buchman went to the University of Chicago to become an organic chemist. He earned his master's degree in chemistry and even

passed his Ph.D. preliminary exams before deciding to become a doctor. Switching to herpes virology, he earned his Ph.D. in 1978 and his M.D. in 1980, both from the University of Chicago.

Before he completed his M.D. program, Buchman decided to become a surgeon, an unusual choice for someone with a Ph.D. and years of laboratory experience. Many people told him that his degree and his laboratory training would be wasted if he took up surgery. But he pressed on to Johns Hopkins Hospital in Baltimore, where he did an internship and surgical residency.

Buchman got into trauma surgery the way many patients do — in a car crash. Buchman suffered a hip injury and major internal bleeding when he was struck by a reckless driver in Baltimore. "I spent the next three months of my rotations in a wheelchair and

genes that lead to widespread inflammation, which, if sustained, can cause multiple organ dysfunction. Other cells commit apoptosis, or cellular suicide. Buchman said evolution never intended for humans to survive 120-mph crashes or multiple stab wounds, and cells just don't know how to respond. If doctors can find a way to keep traumatized cells from destroying themselves or the rest of the body, more patients will survive their injuries, Buchman said.

"The impact of this cannot be overstated because widespread inflammation and multiple organ dysfunction syndrome remain the leading causes of death in surgical intensive-care units," he said. "The notion that we might have a chance to sustain these people is terribly exciting."

Buchman joined the School of Medicine in 1994, where he now studies the treatment of multiple organ failure and the cell-to-cell communications that lead to cellular suicide.

Trauma team

Buchman couldn't save the woman suffering from flesh-eating bacteria. Her abdominal wall dissolved in front of him. He cut out most of the wall, but the bacteria already had inflicted a fatal wound.

The trauma team at the medical school holds highly choreographed performances every day. The medical school has the region's only nationally verified level-one trauma center (meaning it offers the highest level of emergency care), so it gets the most severe cases. Perhaps a St. Louis man is shot in the chest, a common scenario. The

trauma center might receive a dozen gunshot victims on a busy day. Realizing the man is nearly dead, the paramedics at the scene immediately alert the trauma team. Within five minutes, a team of 12 people — emergency physicians, specially trained nurses, anesthesiologists, trauma surgeons, radiology technicians and respiratory therapists — assemble to treat the patient.

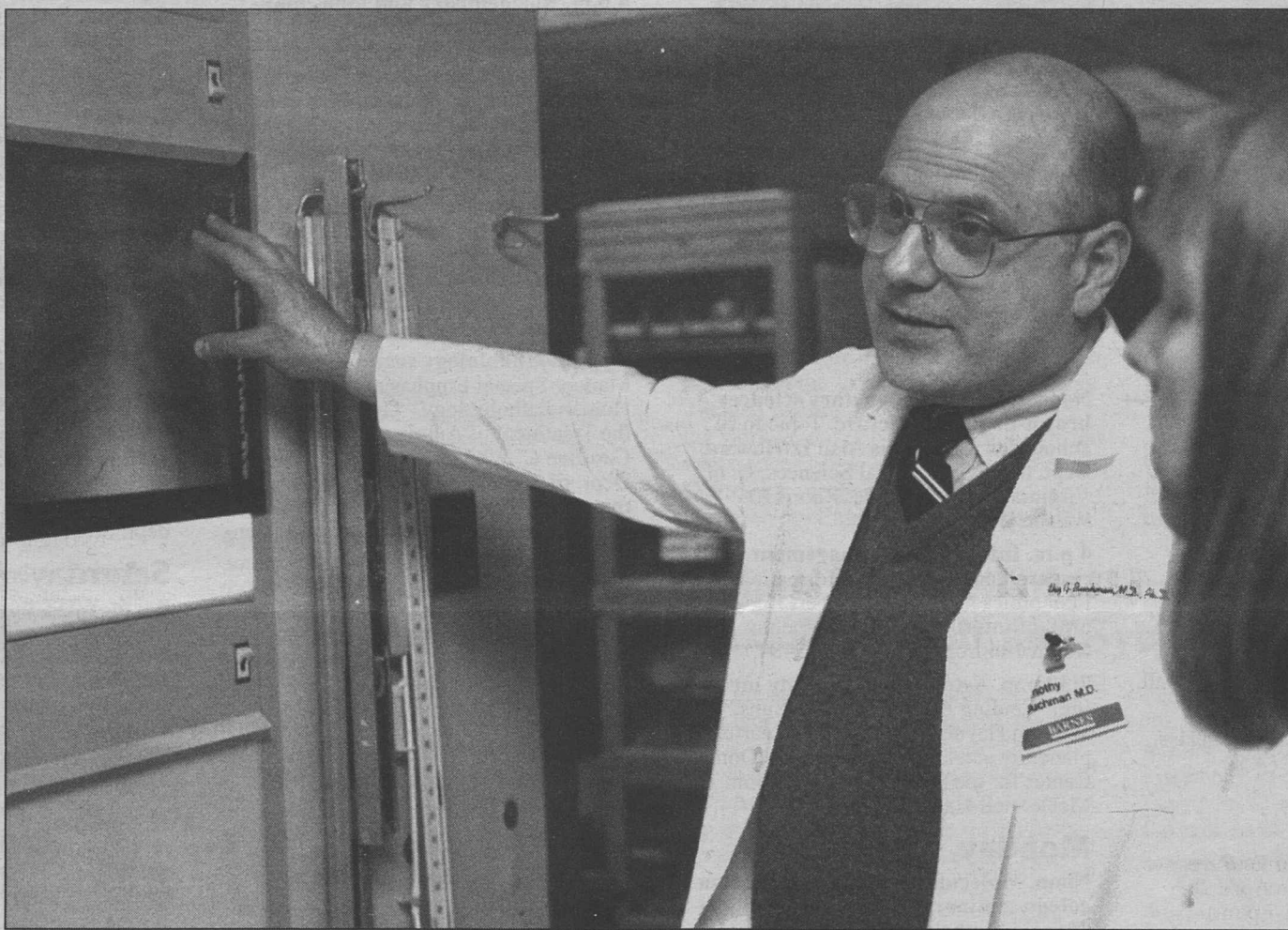
The patient, shaky from blood loss, has a vague feeling of being surrounded as his stretcher rolls through the front door. The doctors and nurses around him have specific jobs with consistent tasks. They resuscitate each patient the same way and look for injuries according to set protocol. The patient is out of the resuscitation room in minutes. In that time, the team took X-rays, inserted intravenous injections and catheters and cross-matched his blood.

Sticking to a routine helps eliminate mistakes even in the most stressful situations, Buchman said. "You can well imagine that if you have a critically ill patient followed by a screaming relative, it would be very easy to get distracted," he said.

The Air Force officer's liver bled profusely. Doctors found that shoving gauze into the body helped, but how could they replace the gauze on a daily basis without leaving the abdominal cavity wide open? Buchman covered the wound with a piece of silicone rubber that had a zipper fastened down the center. Doctors unzipped the cover every day to replace the gauze. The officer recently visited Buchman and the rest of the team just to say hello.

Although Buchman says his wife, Barbara A. Zehnauer, Ph.D., research associate professor of pediatrics and of pathology, has the more interesting job, he clearly thrives on the challenges of trauma surgery. "A lot of people come in on death's door, and a lot of them will never be the same," he said. "Still, it's very satisfying to be able to save a life. The chance to make a difference is felt nowhere more strongly than in the trauma rooms."

— Chris Woolston



Timothy G. Buchman, M.D., Ph.D., discusses a patient with students during rounds.

"He thinks like a computer, but not a standard computer. He's more like a computer that hasn't been invented yet."

— Pamela Lipsett

on crutches," Buchman said. "It was a personal epiphany, and that's when I decided to go into trauma care."

After a fellowship in traumatology at the Maryland Institute for Emergency Medical Service Systems, Buchman became the first director of trauma at Johns Hopkins in 1987. Pamela Lipsett, M.D., director of the Surgical Intensive Care Unit at Johns Hopkins, remembers Buchman as a rare quadruple threat: a talented clinician, teacher, scientist and administrator. "He thinks like a computer, but not a standard computer," she said. "He's more like a computer that hasn't been invented yet."

As his career progressed, Buchman realized that those years in the laboratory had been anything but wasted. As one of the few trauma surgeons in the country who could clone genes and handle DNA, Buchman found himself entering exciting avenues of research.

Since the mid-1980s, Buchman has been studying how trauma can alter gene expression in cells. Cells have many responses to trauma. Some cells activate

Calendar

Visit Washington University's on-line calendar at
<http://cf6000.wustl.edu/calendar/events/v1.1>

April 17-26



Exhibitions

"Curtain Time: Student Performing Arts at Washington University." Through May 30. Special Collections, level five, Olin Library. Hours: 8:30 a.m. to 5 p.m. weekdays. 935-5495.

Master's of Fine Arts Thesis Show. Opening reception: 5 to 7 p.m. April 18. Exhibit runs through May 4. Gallery of Art, upper and lower galleries, Steinberg Hall. Hours: 10 a.m. to 4:30 p.m. weekdays; 1 to 5 p.m. weekends. 935-4523.

"Midway." First-year master's of fine arts students host an exhibit representing a range of styles and media. Through April 25. West Campus Bldg. Hours: 11 a.m. to 4:30 p.m. weekdays. 935-4761.



Films

All Filmboard movies cost \$3 and are shown in Room 100 Brown Hall. For the 24-hour Filmboard hotline, call 935-5983.

Tuesday, April 22

6 p.m. Chinese Film Series. "The Story of Qiu Ju." Room 219 South Ridgley Hall. 935-5156.

7 and 9 p.m. Filmboard Classic Series. "It Happens Every Spring." (Also April 23, same times.)

Friday, April 25

7 and 9:30 p.m. Filmboard Feature Series. "After Hours." (Also April 26, same times, and April 27 at 7 p.m.)

Midnight. Filmboard Midnight Series. "Follow That Bird." (Also April 26, same time, and April 27 at 9:30 p.m.)



Lectures

Thursday, April 17

Noon. Pathobiology lecture. Lucille P. Markey Special Emphasis Pathway to Human Pathobiology. "Epstein-Barr Virus: The Paradigm for Human Tumor Viruses," Bill Sugden, the James A. Miller Professor of Oncology, The McArdle Laboratory for Cancer Research, U. of Wisconsin, Madison. Seminar Room B, Cori Aud., 4565 McKinley Ave. (Time and location changed since the last Record publication.) 362-3364.

1:30 p.m. Mental health seminar. "Measuring Outcomes of Interventions With Runaway and Homeless Youth" and "Evaluation of a Group's Program for Cancer Patients," David E. Pollio, asst. prof. of social work, and Sanna Thompson, project coordinator, Homeless and Runaway Youths Evaluation, and graduate student, School of Social Work. Room 295 West Campus Administrative Center. 935-5687.

2:45 p.m. Physics lecture. "Light Quark Masses," Rajan Gupta, laboratory scientist, Los Alamos National Laboratory, New Mexico. Room 241 Compton Hall. 935-6242.

4 p.m. Earth and planetary sciences colloquium. "Plasmas — The Early Solar System and Climate Dynamics," Alex N.

Halliday, prof. of geological sciences, U. of Michigan, Ann Arbor. Room 362 McDonnell Hall. 935-5610.

4:15 p.m. Philosophy lecture. "The Problem of Necessity," Valerie Lloyd, graduate student in philosophy. Stix International House living room. 935-6614.

7:30 p.m. African and Afro-American studies/English lecture. "Can Rabbits Have Interracial Sex," Werner Sollors, prof. of English, Harvard U. Hurst Lounge, Room 201 Duncker Hall. 935-5690.

Friday, April 18

9:15 a.m. Pediatric Grand Rounds. Iron Toxicity Symposium — Part I: Exogenous. "Iron Poisoning: Commonest Cause of Poisoning Death in Children," Milton Tenenbein, prof. of pediatrics, of pharmacology and of community health sciences, U. of Manitoba, and director of emergency services, Winnipeg Children's Hospital. Clopton Aud., 4950 Children's Place. 454-6006.

Noon. Cell biology and physiology seminar. "Transcriptional Regulation of the Osteocalcin Promoter: Convergence of Msx2- and FGF-regulated Calvarial Gene Expression," Dwight Towler, asst. prof. of molecular biology and pharmacology and of medicine. Room 426 McDonnell Medical Sciences Bldg. 362-6950.

Noon. Earth and planetary sciences brown-bag lunch/lecture. Topic to be announced. Speaker is Alan D. Howard, Dept. of Environmental Sciences, U. of Virginia, Charlottesville. Room 104 Wilson Hall. 935-5610.

4 p.m. Information management research colloquium. "Information Economics and Value," Robert Benson, prof. of information management. Room 104 Lopata Hall. 935-5484.

7:30 p.m. Astronomical Society meeting. "Finding Planets of Other Suns," William Hayden Smith, prof. of earth and planetary sciences and fellow, McDonnell Center for the Space Sciences. Room 162 McDonnell Hall. 935-4614.

Monday, April 21

Noon. Molecular biology and pharmacology seminar. "Protein Trafficking in Thyroid Epithelial Cells," Peter Arvan, assoc. prof. of endocrinology and of developmental and molecular biology, Albert Einstein Medical School, Bronx, N.Y. Cori Aud., 4565 McKinley Ave. 362-7078.

Noon. Social work seminar. "African-American Adolescent Perceptions of School and Environment and Decisions to Stay in School," Larry E. Davis, prof. of social work. Room 300 Eliot Hall. 935-6691.

4 p.m. Biology seminar. "Evolution of a Flower Color Polymorphism in the Desert Annual *Linanthus parryae*: Was Wright Right?" Douglas W. Schemske, prof. of botany, U. of Washington, Seattle. Room 322 Rebstock Hall. 935-6860.

4 p.m. Biostatistics seminar. "Needles in a Haystack: Searching for Signals Against a Noisy Background," David Siegmund, prof. of statistics, Stanford U. Room 1112 Old Shriners Bldg., 706 S. Euclid Ave. 362-3614.

4 p.m. Immunology seminar. "Genetic Analysis of Mammalian Signaling Pathways," George R. Stark, chair, Research Institute, Cleveland Clinic Foundation. 362-8748.

8 p.m. Fumihiko Maki Endowed Guest Lecture. "Image, Figure and Materiality," Fumihiko Maki, the Ruth and Norman Moore Guest Visitor and principal architect, Maki & Associates, Tokyo. Steinberg Hall Aud. (See story on page 6.) 935-6200.

Tuesday, April 22

Noon. Molecular microbiology/microbial pathogenesis seminar series. "Evolution of Sex and the Molecular Clock in RNA Viruses," Lin Chao, Dept. of Zoology, U. of Maryland. Cori Aud., 4565 McKinley Ave. 362-7258.

12:10 p.m. Physical therapy research seminar. "Defining Cerebral Ischemia in Acute Brain Injury," Michael N. Diringer,

asst. prof. of neurology and of neurological surgery. Classroom C Forest Park Bldg., 4444 Forest Park Blvd. 286-1400.

3 p.m. Math analysis seminar. Topic to be announced. Speaker is Albert Baernstein II, prof. of mathematics. Room 199 Cupples I Hall. 935-6726.

Wednesday, April 23

6:30 a.m. Anesthesiology Grand Rounds. Topic and speaker to be announced. Wohl Hospital Bldg. Aud., 4960 Children's Place. 362-6978.

1 p.m. Solid-state engineering and applied physics seminar. "Plasma Ashing of Photoresist," Barry Ives, graduate student in electrical engineering. Room 305 Bryan Hall. 935-5565.

4 p.m. Biochemistry and molecular biophysics seminar. "Structure and Function of Apolipoprotein E: Lessons From X-ray Crystallography," Karl H. Weisgraber, assoc. director, Gladstone Institute of Cardiovascular Disease, U. of California at San Francisco. Cori Aud., 4565 McKinley Ave. 362-0261.

4 p.m. Eugene Feenberg Memorial Lecture. "A Physicist Mired in Science Education," Leon Lederman, director emeritus, Fermi National Accelerator Laboratory, Batavia, Ill. Room 201 Crow Hall. (See story on page 6.) 935-6279.

4 p.m. Pathobiology seminar. Lucille P. Markey Special Emphasis Pathway to Human Pathobiology. "Oral Tolerance in the Treatment of Autoimmune Disease," Caroline C. Whitacre, prof. and chair, Dept. of Medical Microbiology and Immunology, Ohio State U., Columbus. Room B Eric P. Newman Education Center. 362-3364.

Thursday, April 24

11:15 a.m. Mental health seminar. "Overview of Research Project: Gateways and Pathways Project," a follow-up study on the Youth Services Project. Room 353 West Campus Administrative Center. 935-5687.

3 p.m. Cancer Center lecture. "Endoradiotherapeutics for the Treatment of CNS Malignancies," Michael Zalutsky, prof. of radiology, Duke U. Medical Center, Durham, N.C. Third Floor Aud., St. Louis Children's Hospital. 747-0359.

4 p.m. Chemistry seminar. "Patterned Membranes: A Tool for Surface Science and Membrane Biology," Steven Boxer, prof. of chemistry, Stanford U. Room 311 McMillen Lab. 935-6530.

4 p.m. Earth and planetary sciences colloquium. Topic to be announced. Speaker is Robert R. Gillies, asst. prof. of plants, soils and biometeorology, Utah State U., Logan. Room 362 McDonnell Hall. 935-5610.

4:30 p.m. Math colloquium. "Deforming Gorenstein Singularities," Anthony Iarrobino, prof. of mathematics, Northeastern U., Boston, Mass. Room 199 Cupples I Hall. 935-6726.

7:30 p.m. Art lecture. "The Complex and the Non-relational in (my) Painting, With Some Attention to the Attractive as a Problematic," Jeremy Gilbert-Rolfe, painter and art critic, Pasadena, Calif. Steinberg Hall Aud. 935-4761.

Friday, April 25

9:15 a.m. Pediatric Grand Rounds. Iron Toxicity Symposium — Part II: Endogenous. "Iron Overload Syndromes," Z. Leah Harris, asst. prof. in pediatrics, Division of Critical Care. Clopton Aud., 4950 Children's Place. 454-6006.

12:15 p.m. The 44th Annual Alpha Omega Alpha Lecture. "Whirling Disease of Trout: A Vortex of Fishing, Science and Public Policy," Marshall E. Bloom, research medical officer, Laboratory of Persistent Viral Diseases, National Institute of Allergy and Infectious Disease, Rocky Mountain Laboratories, Hamilton, Mont. Clopton Aud., 4950 Children's Place. 362-6251.

4 p.m. The Third Varner Lecture. "Polypeptide Signaling for Plant Defense Genes," Clarence A. Ryan, Institute of Biological Chemistry, Washington State U., Pullman. Room 162 McDonnell Hall. 935-6860.



Music

Saturday, April 19

8 p.m. Graduate piano recital. Program includes Ludwig van Beethoven's Sonata in C minor, op. 111. Benjamin Binder, piano. Steinberg Hall Aud. 935-4841.

Sunday, April 20

3 p.m. Seventh Annual Chancellor's Concert. Featuring the WU Symphony Orchestra and the Chamber Choir of WU. Program includes music by Franz Schubert, Igor Stravinsky and Ottorino Respighi. Directed by Dan Presgrave, director of the orchestra; Elizabeth Macdonald, director of strings; and John Stewart, director of the choir. Saint Louis Symphony Music School, 560 Trinity Ave. (See story on page 5.) 935-5581.

Tuesday, April 22

8 p.m. Student recital. Program includes the music of J. S. Bach. Charles Wall, guitar. Graham Chapel. 935-4841.

Wednesday, April 23

8 p.m. Black repertory composers' concert. Program includes the music of Erykah Badu and Take Six. Directed by Daniel DuMaine, choral director, music dept. Steinberg Hall Aud. 935-4841.

Saturday, April 26

8 p.m. WU Chorus concert. Program: Liebeslieder waltzes, op. 52, by Johannes Brahms; choral dances from "Gloriana" by Benjamin Britten; music of the Renaissance by Thomas Morley and Guillaume Costeley; "Sacramento Sis Joe" by Jackson Berkey; and "Missouri Waltz" by Eppel Logan. Graham Chapel. 935-4841.



Performances

Friday, April 18

8 p.m. Student dance concert. Co-sponsored by Thyrsus and CS40. (Also April 19, same time, and April 20 at 2 p.m.) Cost: \$4; \$3 for senior citizens and students. Dance Studio, Room 297 Mallinckrodt Center. 725-9156.

Thursday, April 24

8 p.m. WU Performing Arts Dept. presents the winner of the 1996 A.E. Hotchner Playwriting Competition, "Oldies on the Rocks," by Daniel Sullivan, senior in English. (Also April 25 and 26, same time, and April 27 at 2 p.m.) Drama Studio, Room 208 Mallinckrodt Center. Cost: \$8; \$6 for senior citizens. (See story on page 5.) 935-6543.



Miscellany

Thursday, April 17

9 a.m.-3:30 p.m. Human Resources Training and Development Center seminar. "Managing Change and Stress," Juli Einspanier, training and development specialist, Office of Human Resources Training and Development Center. Suite 100, Room B West Campus Administrative Center. 935-6970.

10 p.m. Catholic Student Center event. "Crumpets and Trumpets," a free coffee house. Catholic Student Center, 6352 Forsyth Blvd. 725-3358.

Friday, April 18

11:30 a.m. Navajo sandpainting demonstration. Part of American Indian Awareness Week. Blackhorse Mitchell, Navajo artist. Lower level, Mallinckrodt Center. (See story on page 6.) 935-4510.

6-9 p.m. Catholic Student Center event. Twilight Retreat: "Radical Discipleship and Trust," John Kavanaugh, Jesuit priest, Saint Louis U. Catholic Student Center, 6352 Forsyth Blvd. Call 725-3358 to register.

Saturday, April 19

10 a.m. Workshop on traditional Navajo song and dance. Part of Indian Awareness Week. Presented by Navajo artist Blackhorse Mitchell. New music classroom bldg. (See story on page 6.) 935-4510.

11 a.m.-8 p.m. Thurtene Carnival 1997. North Brookings Hall parking lot. (Continues April 20, same times.) (See story on page 1.) 935-3125.

1-10 p.m. Seventh Annual WU Pow Wow. Part of American Indian Awareness Week. American Indian dancers, music, trading booths, food and special ceremonies. Field House, Athletic Complex. (See story on page 6.) 935-4510.

Tuesday, April 22

9 a.m.-4:30 p.m. Human Resources Training and Development Center seminar. "Leadership — Facilitating Change," Richard L. Jouett, director, Training and Human Resource Management. Open to WU staff only. Suite 100, Room B West Campus Administrative Center. 935-6970.

8 p.m. CS40 Coffee House. Guitarist Vance Gilbert. Cost: \$7 for faculty and staff; free for WU students. Ike's Place, Wohl Student Center. 935-5037.

Wednesday, April 23

8 p.m. Poetry reading. Features Jeremy Countryman, Ross Martin and Gregory Vargo, master's of fine arts candidates in the writing program. Hurst Lounge, Room 201 Duncker Hall. 935-5190.

Thursday, April 24

7:15 p.m. Hillel Center event. Annual meeting. Introductory remarks by

Chancellor Mark S. Wrighton. Hillel Center, 6300 Forsyth Blvd. 726-6177.

7:30 p.m. Women's studies feminist reading group. Levi Lounge, Room 220 Busch Hall. 935-5102.

Friday, April 25

7:30 a.m. Office of Continuing Medical Education seminar: "Common Cancers — Prevention, Detection and Therapy." The Ritz-Carlton, 100 Carondelet Plaza. Call 362-6891 for more info. and to register.

5-8 p.m. Painting students open house. Features the work of undergraduate and graduate students. School of Art painting studios, third floor Bixby Hall. 935-4761.

Saturday, April 26

1 p.m. Book arts workshop. "Paper Making in China: Slide Lecture." Charlotte Johnson, Southern Illinois U., Edwardsville, will show paper samples and share paper-making experiences. Cost: \$5. Room 104 Bixby Hall. 935-4643.



Vienna Fest 1997

"Dream City: Viennese Medicine as a Benchmark for St. Louis Physicians." Exhibit of photographs, rare books and documents on the scientific developments of late 19th-century Vienna. Drawn from the School of Medicine's collections and archives. Glaser Gallery, seventh floor, The Bernard Becker Medical Library. 362-7080.

Friday, April 18

4 p.m. Music lecture. "Schubert's Pendulum," Hugh Macdonald, the Avis Blewett Professor of Music and chair, Dept. of Music. Room 102 new music classroom bldg. 935-4841.

Friday, April 25

4 p.m. Music lecture. "Schubert: Legend and Reality," David Cairns, British writer on music. Room 102 new music classroom bldg. 935-4841.

Hotchner contest-winning student play to be performed

The truth about what really happens on prom night will be laid out like a freshly pressed tux this month in "Oldies on the Rocks," an original play by senior Daniel Sullivan, winner of Washington University's 1996 A.E. Hotchner Playwriting Competition.

Students in the Performing Arts Department in Arts and Sciences will bring Sullivan's work to life at 8 p.m. April 24, 25 and 26 and at 2 p.m. April 27 in The Drama Studio, Room 208 Mallinckrodt Center.

"Oldies on the Rocks" follows a group of teen-age boys and girls through the rites of passage of prom night at an all-boys Catholic school. The play is told in three scenes: dinner before the dance; driving to the dance; and the party after the dance. "The dance itself is skipped," said Sullivan, who is majoring in English. "It's the activity surrounding the prom that, in my experience, is what everyone is really looking forward to. Avoid the dance — it's boring."

The play is presented as a slice of life, explained Sullivan, with multiple story lines tied together by the common experience of the prom. The work explores issues and emotions important to young people and presents teen-agers in a light seldom found in the popular media. "Young people are typically portrayed as fairly non-thinking," he said. "You get the drugs and rock 'n' roll, but you don't get the brains. My intention was to portray the thoughtfulness as well as the craziness."

As part of the playwriting competition, "Oldies on the Rocks" was performed as a staged reading last year. Reactions to the work varied depending on the age and experiences of the viewer, Sullivan said. "When my mother saw the reading, she turned to my little brother — who is still

in high school — and said, 'Is that what goes on in my basement?' My dad smiled and said, 'It reminds me of my college days.'

"There is a sense of nostalgia in the play," Sullivan continued. "Some people will smile and think how great it used to be. Others will look for a deeper meaning. I wanted it to appeal to a variety of different people on a variety of different levels."

Director Annamaria Pileggi, artist in residence in performing arts, describes the work as multilayered and complex. "It's very entertaining and funny, but it's also very dark," Pileggi said. "At the end of the play, you wind up questioning everything that you thought was funny. I want the audience to have a very good time, but when they leave the theater, I want to see some furrowed brows."

Sullivan said he is happy with how his play has evolved from words written on paper to words spoken by actors. "It's fun seeing people interpret in ways I had not thought of."

The annual A.E. Hotchner Playwriting Competition is open to all current Washington University students and those who graduated within one year of the competition's date. The staged-reading element of the competition was implemented last year, and Sullivan's work was one of two plays selected to be presented in this format. From the readings, his play was chosen for a fully staged production this year. Two new plays currently are being selected in this year's competition for staged readings in the fall.

Admission is \$8; \$6 for senior citizens. Tickets are available at the Edison Theatre box office, (314) 935-6543, and at all MetroTix outlets, (314) 534-1111. For more information, call (314) 935-6543.

Annual Chancellor's Concert features Chamber Choir and Symphony Orchestra

A great 20th-century choral work by Igor Stravinsky, along with the music of Ottorino Respighi and Franz Schubert, will be performed in the Seventh Annual Chancellor's Concert at 3 p.m. Sunday, April 20, at the Saint Louis Symphony Music School, 560 Trinity Ave.

The Washington University Symphony Orchestra and the Chamber Choir of Washington University combine forces to feature Stravinsky's innovative and challenging "Symphony of Psalms." The concert also includes Respighi's "The Pines of Rome" and excerpts from Schubert's choral and instrumental music for the play "Rosamunde."

The concert will be directed by Dan Presgrave, lecturer in the Department of Music in Arts and Sciences and director of the orchestra; John Stewart, head of vocal activities in the music department and director of the choir; and Elizabeth Macdonald, director of strings in the music department.

Stravinsky's "Symphony of Psalms" is one of the most influential choral works of the 20th century, said John Perkins, associate professor of music and an expert on Stravinsky. The work is distinguished by a unique orchestration that

eliminates the use of violins and violas from the string section. Stravinsky himself described the work as "not a symphony in which I have included the Psalms to be sung; on the contrary it is the singing of the Psalms that I am symphonizing," noted Perkins.

Respighi's "The Pines of Rome" is a dramatic work requiring a large orchestra that includes piano, organ and augmented brass. Written in 1924, the piece creates an aural picture — complete with bird sounds — of Rome's countryside.

Schubert wrote the incidental music to the 1823 play "Rosamunde" by Helmina Chézy. The orchestra will perform excerpts from the score, including the popular melodies from the ballet section. The choral music that Schubert wrote for the play is seldom performed these days, so the concert offers a rare opportunity to hear the choir sing several choruses, including a jaunty hunting song. The Schubert work is performed in tribute to Vienna Fest 1997, a yearlong event honoring the 200th anniversary of Schubert's birth and the 100th anniversary of Johannes Brahms' death.

The concert is free and open to the public. For more information, call (314) 935-5581.

'Wonder drug' is focus of play, discussions

The legacy of DES — the synthetic estrogen hormone diethylstilbestrol that was prescribed to millions of women between 1947 and 1971 — will be the focus of a one-woman show and open discussions featuring School of Medicine faculty.

The show, "My Virginia," is based on New York actress Darci Picoult's experience as a DES child and was created after four years of interviews with DES-exposed women and men and their families, as well as doctors, government officials and lawyers.

Considered a "wonder drug" in the fight to prevent miscarriages and premature labor, DES actually left millions of women and men with a legacy of cancer, infertility, immune disorders and reproductive problems.

"My Virginia" is co-presented by That Uppity Theatre Company and Joan E. Lipkin, artistic director of the company and lecturer in the Department of Performing Arts in Arts and Sciences. Picoult will perform the show at 8 p.m. April 25 and 26 at The Center of Contemporary Arts (COCA), 524 Trinity Ave.

Both performances will be followed by discussions with Picoult and a panel of medical experts, including Janet S. Rader, M.D., assistant professor of obstetrics and gynecology, and Valerie S. Ratts, M.D., instructor in obstetrics and gynecology.

Tickets are \$16; \$14 for students and senior citizens. For tickets or more information, call (314) 725-6555.

Sports

Compiled by Mike Wolf, director, and Kevin Bergquist, asst. director, sports information. For the most up-to-date news about Washington University's athletics program, access the Bears' Web site at www.sports-u.com.

Baseball Bears win two in a row

In its only game of the week, WU extended its winning streak to two games with a 3-0 road victory over Greenville (Ill.) College. Junior pitcher Thor Larsen hurled his third shutout of the season, allowing only two hits in seven innings. Snow and rain prevented the Bears from playing three other scheduled contests.

Current record: 9-16

This week: 3 p.m. Wednesday, April 16, at Illinois Wesleyan University (Bloomington); 2 p.m. Thursday, April 17, at Principia College (Elsah, Ill.); 2:30 p.m. Friday, April 18, vs. Fontbonne College, Kelly Field; 10 a.m. Sunday, April 20, vs. Wittenberg University (Springfield, Ohio) at DePauw University (Greencastle, Ind.) and 12:30 p.m. at DePauw University

Women's tennis team shoots for UAA title

WU's women's tennis team heads to this week's 10th annual University Athletic Association (UAA) Championships on a roll. The Bears have won nine of 10 matches, including victories last week over Nebraska Wesleyan University (Lincoln), Principia College and Augustana College (Rock Island, Ill.). Junior Wendy Lehmann became the second current player to record 100 career victories as the Bears celebrated their newly acquired No. 3 ranking in the Intercollegiate Tennis Association's Midwest regional rankings.

Current record: 10-7

This week: 9 a.m. Friday, April 18, to Sunday, April 20, at UAA Championships at Emory University (Atlanta, Ga.)

Men's tennis readies for UAA Championships

WU's four-match victory string was put on hold as the Bears' only scheduled match of the week — vs. Saint Louis University on Thursday, April 10 — was canceled due to snow. This week, WU will seek its first UAA men's tennis title.

Current record: 6-5

This week: 4 p.m. Tuesday, April 15, vs. Principia College, Tao Tennis Center; 9 a.m. Friday, April 18, to Sunday, April 20, at UAA Championships at Emory University

Track and field squads place first, second

Sophomore sprinter Claudine Rigaud bettered a pair of NCAA Division III provisional qualifying marks Saturday, April 12, as the men's and women's track and field teams hosted their annual invitational. Rigaud improved her national provisional qualifying time in the 100 meters to 12.39 seconds and set another provisional mark in the 200 meters (:25.44). WU topped the 17-team men's field with 152.5 points, while the women scored 135.5 points in finishing second to Augustana College (162) in a 16-team field. Freshman Kristin Meade posted a 35-foot, 11-inch effort in the triple jump to break the WU outdoor record in that event.

This week: 11 a.m. Saturday, April 19, at Grinnell (Iowa) College Invitational



Kurt Hohenemser, Dr. Ing., looks forward to gusty days when he can study the wind turbine at Tyson Research Center.

Harnessing the wind for energy — from page 1

1947 with offers from Flettner in New York and James McDonnell in St. Louis, who also was involved in helicopter development.

He chose then-named McDonnell Aircraft Corp., where he served as chief aerodynamics engineer of the Helicopter Division for 18 years. In 1965, Hohenemser became a professor of aerospace engineering at the University, where he had taught for several years as an adjunct professor.

Shifting gears

Hohenemser became interested in wind-turbine energy in the 1970s in the midst of the Arab oil embargo and the near-frantic search for alternative energy. Since then, thousands of wind turbines have been erected worldwide, with Denmark leading the way in Europe and California leading the United States.

Hohenemser has applied his knowledge of helicopter rotors to the problem of generating electric energy from the wind.

"Today, as in the past, most wind turbines in operation use propellers with rigid blades, similar to airplane propellers," Hohenemser said. "But these have drawbacks. The chief one is that they are not well suited to operate in oblique flow when the wind direction is not perpendicular to the rotor plane. Also, operation during storms requires their use of changes in pitch of their blades, which involves a complex design."

The helicopter-type rotor avoids these drawbacks because it readily accepts oblique flow conditions. A see-saw hinge at the hub of the two-bladed rotor allows the turbine to rapidly adjust to wind direction changes. In traditional wind turbine design, wind following is associated with rather large aerodynamic and inertia blade loads.

The main problem turbine designers confront is that the wind power available to a wind turbine increases with the cube of the wind speed. For example, a speed of 50 mph yields a thousand times more power than a speed of 5 mph.

"A wind turbine is a rather difficult-to-design system because it has to work efficiently at low wind velocities as well

as at high power, and it also has to withstand storm winds," Hohenemser said. "Recently, I've incorporated into the Tyson wind turbine a variable speed capability by running the induction generator in a self-excited mode instead of excitation from the grid. Off-grid operation is needed in isolated regions, and variable speed is more efficient and reduces blade loads."

Early data are encouraging, Hohenemser said, indicating that the variable speed mode of the induction generator works. "To my knowledge, no wind turbine has used this induction-generator mode of operation as yet," he said. "It will be interesting to learn more about it in the coming tests."

His early wind turbine research was carried out through Washington University Technology Associates in conjunction with David A. Peters, Ph.D., professor and chair of mechanical engineering; then-doctoral-candidate Andrew Swift, Ph.D., now dean of engineering at the University of Texas, El Paso; and others. Swift since has duplicated the Tyson wind turbine and is using it in experiments in Southwestern Texas. The work was sponsored by the Solar Energy Research Institute (SERI), which is now the National Renewable Energy Laboratory (NREL).

Hohenemser has published reports over the years with SERI and NREL and is planning another on the present studies.

All funding was dropped after 1985, but Hohenemser has continued the research on his own time with the assistance of Tyson personnel, who keep the access to the turbine clear, and with the help of a retired helicopter-engineering colleague from McDonnell Douglas Corp.

While the perfect data day — dry and gusty — is a rarity for Hohenemser, he visits Tyson at least every other week in warm months to check and maintain the equipment.

"I love working out at Tyson, although it is not the best place to capture the wind," Hohenemser said. "But then, this is not Texas or California."

— Tony Fitzpatrick

Nobel laureate Leon Lederman gives Feenberg Memorial Lecture

Leon Lederman, winner of the 1988 Nobel Prize in physics, will deliver Washington University's Eugene Feenberg Memorial Lecture at 4 p.m. Wednesday, April 23, in Room 201 Crow Hall. His talk, titled "A Physicist Mired in Science Education," is free and open to the public.

Lederman, director emeritus of the Fermi National Accelerator Laboratory in Batavia, Ill., will discuss the importance of science education to the intellectual and economic health of society. Says Lederman: "If 'lifelong' learning is not simple rhetoric and in fact attains awesome significance in this education/communication age, then we must look at science education as a K through '100' problem."

An internationally known specialist in high-energy physics, Lederman is the Pritzker Professor of Physics at the Illinois Institute of Technology in Chicago. He previously was the Frank L. Sulzberger Professor of Physics at the University of Chicago, where he is now a professor emeritus. He was associated with Columbia University in New York City for more than 30 years as a student and as a faculty member and was director of the school's Nevis Laboratories from 1962 to 1979.

With colleagues and students from Nevis, a center for experimental research in high-energy physics, Lederman led an intensive and wide-ranging series of

experiments that provided major advances in the understanding of weak interactions, one of the nuclear forces.

In 1956, working with a Columbia team at the Brookhaven Cosmotron accelerator, Lederman discovered a new particle, the long-lived neutral K-meson, which had been predicted from theory. The accelerator is at the Brookhaven National Laboratory on Long Island in Upton, N.Y.

His fundamental experiments on the interactions of high-energy particles were carried out primarily as part of the Nevis laboratory program at the Brookhaven laboratory. It was at Brookhaven that the group discovered another new particle — the second neutrino. This discovery was recognized with the 1988 Nobel Prize in physics, and it initiated a line of study that since has dominated programs at the major accelerators.

The Eugene Feenberg Memorial Lecture was established in honor of the late professor who retired as Wayman Crow Professor of Physics in 1975 after teaching nearly 30 years in the Department of Physics in Arts and Sciences. A pioneer in the application of quantum mechanics to complex systems, Feenberg was noted for his contributions to nuclear theory, approximation methods and the theory of quantum fluids.

For more information on the lecture, call (314) 935-6279.

American Indian Awareness Week features annual Pow Wow, Navajo sandpainting

A Pow Wow and Navajo sandpainting highlight the American Indian Awareness festivities on the Hilltop Campus this week. The event is hosted by the Kathryn M. Buder Center for American Indian Studies at the George Warren Brown School of Social Work in conjunction with the American Indian Center of Mid-America. All activities are free and open to the public.

At 11:30 a.m. Friday, April 18, Navajo artist Blackhorse Mitchell will demonstrate traditional Navajo sandpainting in the lower level of Mallinckrodt Center. Mitchell also will conduct a workshop on traditional

Navajo song and dance at 10 a.m. Saturday, April 19, in the Department of Music in Arts and Sciences' new classroom building.

The week's activities culminate with a Pow Wow in the Athletic Complex Field House from 1 to 10 p.m. April 19. The Seventh Annual Washington University Pow Wow includes American Indian dancers, trading booths, music and food. Special ceremonies include gourd dancing; blanket dancing; intertribal dance contests; and flag, honor and memorial songs.

For more information, call (314) 935-4510.

Maki closes architecture's spring lecture series

Renowned Japanese architect and 1993 Pritzker Prize winner Fumihiko Maki will lecture on "Image, Figure and Materiality" at 8 p.m. Monday, April 21, in Steinberg Hall Auditorium.

Maki is the School of Architecture's Ruth and Norman Moore Guest Visitor. He will deliver the inaugural Fumihiko Maki Endowed Guest Lecture, which was established by a generous bequest from the estate of Ernest J. Russell of St. Louis. The lecture is the final install-

ment of the school's spring 1997 Monday Night Lecture Series.

Botond Bognar, a professor of architecture history at the University of Illinois Urbana-Champaign who is writing a book on Maki, also will speak.

Bognar will speak at 1 p.m. Sunday, April 20, in Room 116 Givens Hall, followed by a discussion with Maki. The two also will lecture at the school the next day at 9:30 a.m. (room to be announced).

For information, call (314) 935-6200.

Campus Watch

The following incidents were reported to the University Police Department from April 7-14. Readers with information that could assist the investigation of these incidents are urged to call (314) 935-5555. This release is provided as a public service to promote safety-awareness on campus.

April 7

12:58 a.m. — A student reported that a pizza was stolen from a table in the Bear's Den in Wohl Student Center.

April 8

11:33 a.m. — A student in Wydown Residence Hall reported that unauthorized purchases totaling \$382 were made to a credit card.

April 9

5:32 p.m. — A student reported that a watch was stolen from a desk in an unlocked suite in Lee Residence Hall.

11:16 p.m. — A student reported being followed from Anheuser-Busch Hall north on Throop Drive by an unknown white male who attempted to make conversation.

11:16 p.m. — A staff member reported that a leg was broken off a chair in Olin Library.

April 12

8:24 a.m. — A staff member reported that white paint was splattered on the north side of Tao Tennis Center.

April 13

10:34 a.m. — A student reported that a wallet containing credit cards was stolen from a backpack in the lower-level lounge of Mallinckrodt Center.

4:30 p.m. — A faculty member reported that a gym bag containing clothing was stolen from outside a racquetball court in the Athletic Complex.

5:32 p.m. — A student reported that driving lights were stolen from a vehicle parked in the South Forty.

University Police also responded to two automobile accidents and impounded a bicycle on Brookings Quadrangle.

For The Record

For The Record contains news about a wide variety of faculty, staff and student scholarly and professional activities.

Of note

Linda M. Davidson, manager of clinical support services at the Mallinckrodt Institute of Radiology, recently was named a Fellow of the Healthcare Financial Management Association (HFMA). She is among the fewer than 7 percent of health-care professionals nationally who have successfully earned the designation. Candidates are assessed for their technical proficiency as well as their understanding of professional and managerial responsibility. In earning the fellowship, Davidson demonstrated specialized knowledge in managed care. HFMA is the nation's leading organization for more than 34,000 professionals involved in the financial management of health-care institutions and providers. ...

Babu Joseph, Ph.D., the Edward C. Dicke Professor of chemical engineering, has received a \$200,000 two-year grant from the National Science Foundation for a project titled "Intelligent Control of Quality in Composite Manufacturing Processes." The objective of the research is to lower manufacturing costs of polymeric materials, such as fiberglass-epoxy-resin composite laminates, through the use of advanced model-based control techniques. Currently, these advanced materials primarily are used in the defense industry, but lower costs would make the materials more attractive in many civilian industrial applications, such as for lightweight automobiles and structures.

On assignment

Wendy Hyman-Fite, director of the English as a Second Language Program, presented a session titled "Examining Our

Interactions with Korean Students" at the 31st annual international convention of Teachers of English to Speakers of Other Languages, held March 13 in Orlando, Fla.

Speaking of

Ronald M. Levin, J.D., professor of law, recently spoke at a subcommittee meeting of the Consumer Finance Committee of the Section of Business Law at the annual convention of the American Bar Association held in Orlando, Fla. Levin addressed the administrative law implications of the U.S. Supreme Court's recent decision in "Smiley vs. Citibank." In addition, the Council of the Section of Administrative Law and Regulatory Practice endorsed a resolution and report drafted by Levin. The resolution suggests guidelines for reviewing courts to use when they remand an administrative action to an agency without simultaneously vacating the action.

Best health books listing includes WU authors

Works by three Washington University authors are included on a list of last year's best health sciences books.

Doody Publishing, an independent reviewer of health sciences and nursing books, recently released its 1997 edition of "Doody's Rating Service: A Buyer's Guide to the 250 Best Health Sciences Books." Making the cut from its database of more than 2,700 titles with a 1996 copyright are:

- "Management of Diabetes Mellitus: Perspectives of Care Across the Life Span" (second edition), by Debra L. Haire-Joshu, M.D., research associate professor of medicine;
- "Pitfalls, Variants and Artifacts in Body MR Imaging," by Scott A. Mirowitz, M.D., associate professor of radiology; and
- "Clinical Immunology: Principles and Practice" (two-volume set), by Benjamin Schwartz, M.D., Ph.D., professor of clinical medicine.

The books chosen for Doody's Rating Service are determined after consulting Doody Publishing's network of 3,000 reviewers and review-group chairs, the 200 participating publishers and Doody's editorial staff.

Book reviews now online

An archive of reviews from Doody's Review Service now is available via The Bernard Becker Medical Library's World Wide Web site. The service, which offers free access to current peer reviews on newly published books in the health sciences, can be accessed at <http://medschool.wustl.edu/webcites>. Once there, select Doody's Book Review Service and visit the "guest area" to find general information about the service and an electronic registration form. Once registered, a personal identification code will be issued within a week (via e-mail) that will allow no-cost entry.

The service features weekly e-mail bulletins with information and reviews of newly published books, as well as a database of more than 8,000 titles and 4,500 expert reviews. The list is updated weekly, providing information on 50 new titles and 30 reviews, on average. In most cases, a review is available as early as 10 weeks after a book is published.

For assistance with the registration form, contact Barbara Halbrook, librarian, at (314) 362-3786 or at halbrook@msnotes.wustl.edu.



Undampened spirits

Despite an unexpected spring snow, Lanetta Greer of Milwaukee, Wis., (standing left) and Phyllis Broussard of Lafayette, La., (with camera) enjoy an indoor barbecue at Mallinckrodt Center on Thursday, April 10. The cook-in was part of Washington University's Multicultural Celebration weekend, which drew more than 225 prospective students to the campus. The barbecue was co-sponsored by several student groups, including the Association of Black Students, ASHOKA (the American Indian students association), the Asian Multicultural Council, the Asian Students Association, the Chinese Students Association, the Association of Korean Students, SHADES (a multiracial student organization) and the Association of Latin American Students, as well as the Office of Undergraduate Admissions.

Obituaries

John Grant, associate professor of clinical medicine

John Mosby Grant, M.D., associate professor of clinical medicine, died of cancer Tuesday, April 1, 1997, at his Central West End home. He was 70.

A graduate of Princeton (N.J.) University, Grant received his medical degree from the Washington University School of Medicine in 1953 and joined the faculty in 1959. He conducted his clinical practice at the Grant Medical Clinic, founded by his father, Samuel B. Grant. He also served on the staff of Barnes-Jewish Hospital, of St. Luke's Hospital and of the St. Louis Regional Medical Center.

An internist with a strong interest in psychosomatic ailments, Grant showed remarkable compassion for his patients. When some doctors began leaving the city in the mid-1970s, Grant and his brother, Neville Grant, M.D., professor of clinical medicine, stayed at the Grant

Clinic, where they felt they could best serve the community.

John Grant was an enthusiastic community activist dedicated to improving the Central West End. He was a leading officer of the Second Presbyterian Church, and he was one of the founders of the Joint Community Board, a church group that addresses neighborhood problems. In the 1960s, Grant served as president of the interracial Mid-City Community Congress.

A funeral service was held April 6 at the Second Presbyterian Church. Contributions may be made to the John M. Grant Book Fund, c/o Central West End Bank, 415 DeBaliviere Ave., St. Louis, MO, 63112; to the Second Presbyterian Church, 4501 Westminster Place, St. Louis, MO, 63108; or to the Quartet Seraphin, 6963 Columbia Place, St. Louis, MO, 63130.

Survivors include his wife, Dionne D. Grant of St. Louis; a daughter, Natalie T. Grant of Huntington, Vt.; his mother, Natalie N. Grant of St. Louis; and two brothers, Neville and Samuel B. Grant, both of St. Louis. His first wife, Margaret T. Grant, died in 1993.

Campus Authors

The following is a recent release available at the Campus Bookstore in Mallinckrodt Center on the Hilltop Campus or at the Washington University Medical Bookstore in the Olin Residence Hall. For more information, call (314) 935-5500 (Hilltop Campus) or (314) 362-3240 (School of Medicine).

The Socially Responsive Self Social Theory and Professional Ethics

(The University of Chicago Press; Chicago & London, 1996)

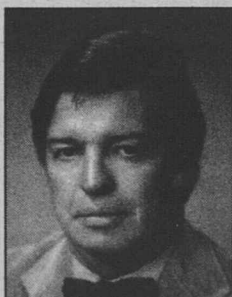
Larry M. May, Ph.D., professor of philosophy in Arts and Sciences

A book about social responsibility — especially in professional life — "The Socially Responsive Self" explores the nature of social institutions and the role these institutions play in shaping and limiting our responsibilities. These categories of integrity, authority, role responsibility and advocacy are re-examined in light of recent work in social and moral philosophy, especially in critical theory.

May argues that socially responsive individuals need not be self-sacrificing or overconscientious. According to May, a person's integrity and moral responsibility are shaped and limited not just by conscience but also by socialization and moral support from the communities to which he or she belongs.

Applying the theory of responsibility to professional ethics, he contends that current methods of professional socialization should be changed so that professionals are not expected to ignore considerations of personal well-being, family or community. For instance, lawyers should not place client loyalty above concerns for the common good; doctors should not place the physical well-being of patients above their mental and spiritual well-being; scientists and engineers should not feel obliged to blow the whistle on fraud and corruption unless their professional groups protect them from retaliation.

(Excerpted from book introduction and jacket text.)



John M. Grant

Opportunities & personnel news

Hilltop Campus

The following is a partial list of positions available on the Hilltop Campus. Information regarding these and other positions may be obtained in the Office of Human Resources, Room 130 West Campus, or by calling (314) 935-5906. Job openings also may be accessed via the World Wide Web at cf6000.wustl.edu/hr/home.

Accounts Payable Service Representative Trainee 970239.

Accounting Services. Requirements: high school graduate with three semester hours accounting or business-related course work in high school or one year experience in accounting, college courses in business accounting preferred; working knowledge of routine office equipment including PC, calculator and typewriter; strong communication, organizational, verbal and alphanumeric skills; word processing, spreadsheet and database experience

highly desired; customer oriented; ability to participate as a team member on various types of teams and projects to achieve the goals of Accounting Services. Application required.

Biology, Chemistry and Earth Sciences Libraries Assistant 970240.

Olin Library. Requirements: two years of college or equivalent experience, bachelor's degree preferred; library work experience desired; ability to organize work and to perform detailed work with accuracy; ability to work independently with minimum supervision; strong service orientation and ability to work well with others; familiarity with PCs, the Internet and Microsoft products desired; strong verbal and written communication skills; physical stamina; flexibility and adaptability to various work schedules and environments; willingness to work occasional nights and weekend hours during the spring and fall semesters. Application required.

Assistant Dean 970241. *Arts and Sciences.* Requirements: master's degree, Ph.D. in a liberal arts

discipline preferred; an appreciation for and comprehensive understanding of liberal arts education; excellent written and oral communication skills; ability to work effectively with students, parents, faculty and staff; superior organizational skills and demonstrated program development; implementation and evaluation skills; initiative and flexibility; ability to work cooperatively. Application required.

Special Assistant 970243.

Chairman of the Board of Trustees. Requirements: high school education; extensive experience working with board members, faculty, alumni and community members; excellent grammar, writing and spelling skills; must need limited supervision and must work independently; strong word processing and transcription skills; familiarity with on-line ordering and accounting systems; ability to work as a generalist in a small office; familiarity with work of the office and the people with whom the chairman of the Board of Trustees interacts; must possess the maturity, discretion and social skills to work effectively with trustees, faculty,

alumni and others; highly motivated; cheery disposition; strong organizational skills that allow attention to multiple tasks while assuring accuracy and attention to detail; university experience. Application required.

Medical Campus

The following is a partial list of positions available at the School of Medicine. Employees interested in submitting transfer requests should contact the Human Resources Department of the medical school at (314) 362-7202 to request applications. External candidates may call (314) 362-7195 for information regarding application procedures or may submit résumés to the human resources office located at 4480 Clayton Ave., Campus Box 8002, St. Louis, MO, 63110. Please note that the medical school does not disclose salary information for vacancies, and the office strongly discourages inquiries to

departments other than human resources. Job openings also may be accessed via the World Wide Web at <http://medicine.wustl.edu/wumshr>.

Associate Director of Diversity Programs 970924-R.

Requirements: master's degree or higher in education or health-related field; minimum four years experience in graduate-level teaching, student affairs, minority affairs or related area in an academic university setting; multicultural training and student counseling experience; bilingual ability highly desired (Spanish/English). Responsibilities include organizing and implementing programs designed to enhance recruitment of underrepresented minority students and providing a range of services addressing the needs of a multicultural student population, including coordinating diversity programs, maintaining mentor programs and participating in outreach programs.

System Manager 970644-R.

Requirements: bachelor's degree

or equivalent in business or computer science with three to five years experience in information-system management; understanding of facility-management operations beneficial. Responsibilities include managing a Novell Netware network consisting of multiple file servers and more than 100 users and overseeing software training and database administration.

Network Technician 970751-R.

Requirements: high school graduate or equivalent; knowledge of protocol stacks (TCP/IP, DecNet, LAT, Appletalk, IPX, LAST and LAD) is a plus; experience pulling network cable and troubleshooting networks desired; working knowledge of computer network technology; manual dexterity with small objects; ability to distinguish colors. Responsibilities include climbing ladders and pulling network cable through ceilings, closets and steam tunnels, as well as offices and labs, and troubleshooting local- and wide-area networks.

Thurtene is nation's largest, oldest student-run carnival — from page 1

How Thurtene Carnival evolved and grew is shrouded in nearly as much mystery as the honorary for which it is named. The roots of Thurtene go back to the late fall of 1904, when three men's honor societies — Pralma (for seniors), Thurtene (for juniors) and Lock and Chain (for sophomores) — were formed by an anonymous alumnus. Members were chosen on the basis of outstanding leadership, character and participation in campus activities. Members truly were considered to be the "Big Men on Campus."

In the first few years, only the members themselves knew who belonged to Thurtene. While the other societies allowed publications to print rosters and group photographs, Thurtene was represented in the University yearbook, "The Hatchet," by illustration only. A person's membership could be verified only when the individual in question was a senior. Then a small "13" could be found in the list of credentials that bordered a student's senior picture.

Emerging from obscurity

Over the years, Thurtene has evolved from an esoteric society of which virtually nothing was known to a highly visible coed campus organization. To this

day, however, its meetings, selection process and ritual remain secret.

Nearly as clandestine are the roots of the carnival, which was directed by Pralma for nearly three decades. Part of the puzzle is that the event's name and its spelling were changed numerous times as part of an ongoing joke — a display of collegiate humor. Before a general consensus of "Univee Surkuss" was reached in 1912, the event went by such monikers as Younnivee Surkuss, U-N-I-V Surkuss, Pikeway Surkuss and Univee Surkuss.

The nature of the Surkuss changed in 1910 when the main attraction shifted from a ring circus to a vaudeville show. Rides debuted in 1914 with the inclusion of the "Freshman-powered Merry-Go-Round." A dance sponsored by Lock and Chain was added that year.

The 1916 Surkuss was noteworthy for the debut of a student-produced silent movie titled "The Maid of McMillan" (McMillan Hall was the women's dormitory at that time). The 14-minute, 16-millimeter film, which was billed as the first movie made by college students, centered around the romance of "Jack Tower, Captain of the Track Team" and his soon-to-be wife, "Myrtle Maroon." The film, which is the oldest surviving footage of Washington University, was subsequently released to local theaters.

A year later, the Surkuss became a casualty of World War I. "No Surkuss" was the banner headline of the May 5, 1917, edition of Student Life. The Great War also claimed the 1918 Surkuss.

The soldiers and the Surkuss returned in 1919, and the early 1920s was a period when the St. Louis community took notice. Films of the 1921 Surkuss were shown in local theaters — the equivalent of today's television coverage.

In the mid-1920s, Pralma began to shift its attention and efforts to another of its events, the "Pralma Vodvil." As a result, the Surkuss lay dormant in the springs of 1927, 1928 and 1929. Another student group, the Women's Self-Government Association, attempted an indoor revival of the festival in December 1929, but poor attendance and vandalism made the event a questionable success. The Surkuss was not seen in any form from 1930 through 1932.

February 24, 1933, is a significant day in the history of Thurtene Carnival. That day marked the establishment of a Washington University chapter of Omicron Delta Kappa (ODK), then the national senior men's leadership honorary. By May 1934, Pralma and ODK had agreed to merge. Pralma's last hurrah would be the rebirth of the Surkuss that spring. The event, which featured games, concessions and two rides, was held on the parking lot south of the tennis courts.

Phi Delta Theta fraternity captured first prize by selling the most game tickets. Thurtene, which ran a game in which contestants toppled milk bottles with baseballs, placed second.

The reins were permanently passed from Pralma to Thurtene in the spring of 1935 after George Stephens, dean of men, spoke with Thurtene president Harry White. The dean opened the meeting by saying: "Harry, it is an honor to be in Thurtene and an even greater honor to be elected president. But an honorary should have a purpose."

And so the carnival, an event that had no future, was salvaged. The tradition assumed the name of its rescuers and has been known ever since as Thurtene Carnival.

For the inaugural 1935 event, Thurtene contracted for the rides with D.D. Murphy Carnival Shows. More than 15,000 game tickets were sold at 5 cents each and Sigma Chi fraternity took first place in receipts with its egg toss. The profits from this "first" carnival were split between the Campus Y and the Athletic Association.

The format remained the same for several years but did become part of a larger all-University festival from 1940-42. This immense event — which featured a track meet, fraternity open houses and physics demonstrations — was intended to attract area high school students to the University.

As with the Great War, World War II drew the carnival to a halt in 1943. That marks the last time the event was not held.

A growing success

Since then, each successive group of Thurtene honorary has tried to outdo its predecessors, and the carnival has grown in size and scope. In 1949, the carnival was relocated to the tennis court parking lots, where it remained until 1983. Through the years, unique attractions such as live shows, a barber shop, a kissing booth and a synchronized swimming exhibition in Wilson Pool were implemented. Phi Delta Theta introduced its annual movie in 1955, easily taking first prize. Facades, in which live performances are shown, have become increasingly elaborate.

The carnival has weathered two threatening storms under Thurtene's direction. The first, in 1962, nearly blew away the event — literally. During final preparations the evening before the carnival, fierce winds caused the wooden facades to collapse. Two student workers received minor injuries. The damage was extensive enough that local radio stations announced cancellation of the carnival. After frantic rebuilding,

Memories of Thurtene Carnival

Daniel Shapiro

Late in the 1970s, when Daniel Shapiro was three years old, his parents picked him up at the Washington University nursery school one spring day — and brought him to his first Thurtene Carnival.

He's missed only one since, when he attended American University in Washington, D.C., as a freshman. Now Shapiro is seeing the carnival from a new perspective — from within the traditional yellow Thurtene jacket.

Shapiro, who transferred to Washington University prior to his sophomore year, is serving as treasurer for Thurtene this year.

"As a kid, I remember the carnival as magic," Shapiro says. "Both my parents were involved with the carnival as undergraduate students, and my Uncle Max was selected for Thurtene in 1964. My uncle was a VIP every year and he'd let me wear his Thurtene armband. I feel a real connection — a tradition that is very important to me."

— David Moessner

Thurtene members were able to "cancel the cancellation."

More daunting was a 1982 resolution by University officials to cancel the carnival — permanently. The verdict was prompted when the construction of the new athletic facilities made relocation inevitable and, it was argued, cost-inefficient. Thurtene mounted a campaign to bolster support, enlisting the help of several student groups. The president of Chimes, then the junior women's honorary, instigated an idea that called for a three-year temporary raise in the student activities fee. The plan, which in only two days blossomed from an idea to a petition to an official motion on the ballot, passed with a resounding 84 percent approval.

Today, Thurtene Carnival remains the largest and oldest student-run carnival in the nation. Nearly 40 student organizations take part in the two-day event, which this year features six facades, 14 major rides, a dozen games and an array of food.

All that's missing is Wahsousa.

— David Moessner

Special thanks to Mitchell Walker, Thurtene Class of 1983, for access to his research.

Memories of Thurtene Carnival

Herb Weitman

Herb Weitman quite possibly has attended more Thurtene Carnivals than anyone.

Weitman was Washington University's director of photographic services from the time of his graduation in 1950 until his retirement in 1994. He also was an undergraduate member of Thurtene in 1949.

"The very first picture I took at Washington University was at Thurtene Carnival," recalls Weitman, who captured tens of thousands of Hilltop images over the years. "It was 1947 — fifty years ago — and I went to the carnival on my own, for myself, and shot some photographs. Somewhere along the line, someone said, 'You really should take those pictures to Student Life.' Then, as now, they were always in short supply of photographers. So I took the photo in — it was of a clown — and walked out with a job.

"From there I got hired by the yearbook and then by the University. And it all started with Thurtene Carnival."

— David Moessner