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Fantastick!
The Performing Arts Department in Arts and Sciences presents “The Fantasticks,” opening this weekend on the Drama Studio stage in Mallinckrodt Center. Starring in the production are (clockwise from bottom) Jane Seal as Luisa, James Hair as El Gallo, Janie Kennedy as the Mute and Michael Baum as Matt. See story on page 5.

University volunteers helping shape progressive change with St. Louis 2004

Some 35 volunteers from Washington University and more than a thou-
sand others have been working for the past six months in St. Louis 2004 action teams and task forces to develop ideas for making the St. Louis region a leader in the 21st century. The 12-county, citizen-based effort is getting feedback on its ideas from citizens at 24 community forums this month.

Former U.S. Sen. John C. “Jack” Danforth, chairman of St. Louis 2004, said the 18 forums to date have been successful and well attended. “There have been some themes that we expected and some we would not have expected a year ago,” he said. “There is real concern about downtown St. Louis.”


St. Louis 2004 hopes to revitalize the St. Louis region through improvements in areas such as economic growth, education, infrastructure, health care, the arts, culture and citizenship. A major goal of the not-for-profit organization is to develop an agenda based on citizen input for the future of the community.

Along with St. Louis 2004, the commu-

nity forums are hosted by FOCUS St. Louis, a citizens’ league and leadership training organization. These town hall meetings seek citizen response to a series of questions: Are these ideas important? Do they make sense to you? What are the initiatives that will do most for our region’s quality of life? How could we build on these ideas?

Each of the action teams has about 150 volunteer members. The hundreds of ideas brought forward through the action-team process have been melded into 28 specific options for community improvement.

Those 28 options are being presented at the public forums and include suggestions such as: providing safe places for children; developing and expanding mentor-prog-

The African-American Task Force’s purpose was to focus on major issues within the African-American community that warranted inclusion in the overall 2004 agenda.

“We included issues such as efficient education, safety-net health systems, continued on page 8.

New department offers biomedical engineering degrees

Rocket noses cones and human hearts are common things that might believe, and this fall, 85 first-year engineering students at the School of Engineering and Applied Science are setting out to explore these links.

Along with the freshmen, the school also includes two members of the school’s new biomedical engineering department: Frank C. P. Yin, M.D., Ph.D., and a new professor, Larry A. Taber, Ph.D., who both will teach classes as a part of the Department of Biomedical Engineering in the School of Engineering and Applied Science.

Ross hopes St. Louis 2004 will usher in a new era

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A community program promotes awareness of high blood pressure at area churches.

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Mark Rank, Ph.D., associate profes-
sor of social work, wages war on poverty through innovative research.

Women at work ……………….5

Heidi Hartmann, noted women’s economist, keynotes the 23rd annual Olin Conference Oct.
Researchers discover how tuberculosis bacterium invades cells

The bacterium that causes tuberculosis has a surprisingly underhanded trick to invade cells, School of Medicine researchers announced recently. The strategy is clever and effective — and it may one day prove to be the disease's downfall.

Understanding how the bacterium invades cells may be an important first step toward developing a vaccine to prevent tuberculosis, said Jeffrey S. Schorey, Ph.D., an instructor of medicine and lead author of a paper in the Aug. 22 issue of Science. Although such a vaccine could be developed only after many more years of study, researchers are excited about the new insight into the common and deadly microbe.

"This study helps us understand what's special about this bacterium and what makes it such an effective pathogen," said Eric J. Brown, M.D., co-author of the paper. Brown is a professor of medicine and of cell biology and physiology.

Tuberculosis is a growing global menace that kills more people than any other infectious disease.

Researchers have long known that M. tuberculosis makes its living by preying on macrophages, the immune system warriors that usually consume bacteria.

The bacterium enters a macrophage and apparently multipplies until the cell ruptures, releasing more bacteria to attack other macrophages. Schorey, Brown and colleagues conducted test-tube studies with M. tuberculosis and a few of its close relatives including M. leprae, which causes leprosy, and M. avium, which frequently infects AIDS patients. The researchers found that all three bacteria can use a special trick for finding and invading cells. They grab a protein discarded by the immune system and use it to lure the macrophages to their death.

Normally, when a bacterium enters the body, the immune system responds by tagging the bug with certain proteins that alert the macrophages. Any macrophages (literally "big eater") that detects the protein will attempt to engulf the intruder and try to consume it. Tagging a bug requires a highly choreographed interaction of many proteins, including one called C2a. When combined with another protein, C2a forms a potent enzyme that plays a major role in releasing intruders. After the job is done, C2a breaks off from its partner and floats in the blood with no known function.

Humans may have no use for dis-Carded C2a, but it's apparently invaluable for the disease-causing mycobacteria. Schorey's experiments demonstrated that the New Guinea strain of the tubercle bacterium and the protein and use it to create a new label that helps bacteria adhere to the macrophage.

Previous studies have described other invasion techniques used by the tubercle bacterium, but the C2a strategy stands out for one major reason: It's used only by the types of mycobacteria that cause disease. "This is why we think C2a is important for the virulence of these bacterium," Schorey said.

The next important step is to find the bacterial molecule that contains C2a, Schorey said. If researchers can find this molecule, and if the results of animal studies echo the findings from the test-tube studies, this new invasion mechanism could be used for developing a novel vaccine, he said.

School of Medicine acquires renowned Asthma Center

The Asthma Center, renamed as a regional leader in asthma care, is now a part of the School of Medicine. Earlier this year, the school purchased the center from Barnes-Jewish-West County Hospital. The faculty has remained essentially the same, ensuring continued excellence in care for people with severe asthma.

"We try hard to look at the underlying causes of asthma, including allergies, sinus disease and psychological factors," said Daniel L. Hamilos, M.D., associate professor of medicine and medical director of the center. "It takes a very experienced team to address these issues." The center also treats people with other airway diseases, such as emphysema and sinusitis.

The staff at the Asthma Center includes clinical nurse specialists, nutritionists, social workers, physical and speech therapists, as well as School of Medicine physicians. Patients have access to support groups, counseling, education, medical care and exercise in one convenient place. The center is located at 1040 N. Mason Road, Suite 112, St. Louis, Mo. 63141.

Phillip E. Korenblith, M.D., clinical professor of medicine and senior medici-
Mark Rank, Ph.D., associate professor of social work, takes his enthusiasm for social issues and his concern for the poor into the classroom.

"Mark Rank has done the social sciences and the welfare makers a real service. Let us hope that Washington is listening to this voice."

— Katharine S. Newman

Rank's research attacked the notion that welfare somehow "locked" recipients into a "vicious cycle" of intergenerational dependence, offering convincing evidence that welfare payments do not encourage women to have more children, that most people using welfare did not grow up in families that used welfare; and that the co-authored research suggests the black-white IQ gap is not a function of genetics, as some have contended. Rank's evidence that welfare payments do not encourage women to somehow lock recipients into a "vicious cycle" of welfare is a real service, and his concern for the poor is truly inspiring. Let us hope that Washington is listening to this voice.

"In the Shadows of Plenty: A Portrait of American Poverty" published by Oxford University Press, "The United States symbolizes the land of opportunity, broadband to the world, home of the American Dream ... a country of overwhelming resources, materials and skills ... Unfortunately, poverty in America is not an esoteric or the reality," continues Rank. "Its face is found in every corner of this powerful nation. It stretches across many street corners and down deserted back roads. Ultimately it casts its shadow upon each of our citizens.

A member of the Washington University faculty since 1985, Rank has waged his own war on poverty since the 1970s when he began studying sociology at the University of Wisconsin-Madison. His research on families, welfare and poverty has been published in dozens of academic articles, and his books and signed opinion columns both in the popular press and in academic circles.

In concluding her review of Rank's 1994 book, "Living on the Edge: The Realities of Welfare in the United States," Katherine S. Newman states, "Mark Rank has done the social sciences and the nation's policy-makers a real service. Let us hope that Washington is listening to this voice."

Human dimensions of welfare

For Rank, "Living on the Edge" was the culmination of more than 15 years of extensive social research that began during his college years. His interest in social issues goes back even further, to growing up during the 1960s in a Milwaukee neighborhood he compares to University City in St. Louis.

At high school, Rank coupled his activism with a growing interest in music, writing and performing songs about social issues. By his early 20s, he had built a solid reputation as a folk singer on a Midwestern college circuit. Refrains from Woody Guthrie's "This Land Is Your Land" still ring in his music. Guthrie's passion for and a lot of effort into the course. If you're interested in it, you'll be enthusiastic, and that will carry over to your students.

"Exploring core principles" Rank now sees his research, teaching and writing interests as entering a new phase. The first phase, which culminated with "Living on the Edge," involved intensive examination of families on welfare. In his forthcoming book, "In the Shadows of Plenty," he explores the broader causes and implications of poverty and challenges readers to re-examine how they think of poverty in this country.

In the third phase, he plans to spend time exploring the core principles that have shaped America and juxtapose these principles with the reality of American life. Specifically, he has the values of liberty, equality and justice been met with the extent that have been fulfilled in contemporary American society.

Rank will be bringing his new interests into the classroom soon, using these questions as the focal points of a new course. He will work closely with Larry May, Ph.D., a professor of philosophy in Arts and Sciences and a specialist in issues of liberty and shared responsibility.

"The real question here is what America should stand for in the 21st century and who are the people who are able to enjoy its successes," Rank said. "We need to look at the roots of this injustice and ask why we have not been able to include more people in our success. We can do better. That's what America is about."
Exhibitions


Saturday. Sept. 27


Friday, Oct. 3


Saturday, Oct. 4


Wednesday, Oct. 12

8 p.m. "The Gift of Art: A Philadelphia Story" by Itabari Njeri, visiting writer in residence. To register, call 935-4841.

Thursday, Oct. 2

11 a.m.-5 p.m. "The Gift of Art: A Philadelphia Story" by Itabari Njeri, visiting writer in residence. To register, call 935-4841.

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Friday, Oct. 3

11 a.m.-5 p.m. "The Gift of Art: A Philadelphia Story" by Itabari Njeri, visiting writer in residence. To register, call 935-4841.

Monday, Oct. 6


Wednesday, Oct. 8

8 p.m. "The Gift of Art: A Philadelphia Story" by Itabari Njeri, visiting writer in residence. To register, call 935-4841.

Friday, Oct. 10

8 p.m. "The Gift of Art: A Philadelphia Story" by Itabari Njeri, visiting writer in residence. To register, call 935-4841.

Saturday, Oct. 11

8 p.m. "The Gift of Art: A Philadelphia Story" by Itabari Njeri, visiting writer in residence. To register, call 935-4841.

Monday, Oct. 13

8 p.m. "The Gift of Art: A Philadelphia Story" by Itabari Njeri, visiting writer in residence. To register, call 935-4841.

Wednesday, Oct. 15

8 p.m. "The Gift of Art: A Philadelphia Story" by Itabari Njeri, visiting writer in residence. To register, call 935-4841.
The Jazz Tap Ensemble combines the silky-smooth syncopations of jazz greats like Theusmon Monk and Miles Davis with the percussion of the dancers' feet. Said Artistic Director Lynn Dally, "It's dance you can listen to and music you can see."

The five dancers perform in a number of different combinations, from virtuoso solo to full ensemble works, to the music of Duke Ellington, Jerome Kern, Victor Young, Kurt Weill, Sonny Rollins and Miles Davis, as well as improvisations from the ensemble's jazz trio. Program highlights include "Monk Suite '57," a tribute to Thelonius Monk, and "Interplay," choreographed especially for the Jazz Tap Ensemble by legendary tap master Michael Barker.

Tickets are $10 for the general public and $7 for faculty, staff, student, senior citizen and available at the Edison Theatre Box Office at (314) 935-5643 or all MetroTix outlets at (314) 534-1111.

The Jazz Tap Ensemble is the sixth annual St. Louis Tap Festival and at Dance St. Louis' 1995 Ballet Ball. Musicians are Jerry Kalaf, drums; Eric Ajaye, bass; and Dave Scott, percussion.
Lecture series features noted architects

Ranging from the architect for the Jewish Museum in Berlin to a landscape architect whose work expertly combines ecological and cultural elements to a gait expert who gives graphic form to a whole new level of prominence, the School of Architecture’s 43rd annual Monday High Level Lecture Series offers a renown and varied line-up. The series will kick off Monday, Sept. 29, with an architecture and landscape architect Michael Van Valkenburgh delivering the Harris Arts and Endowed Lecture. All lectures, which are free and open to the public, are held at 8 p.m. in Steinberg Hall Auditorium. The lecture begins each fall in Room 120 Givens Hall.

Van Valkenburgh, the Charles Eliot Norton Professor of Landscape Architecture at Harvard University, describes his work as "the study of how things happen". He is recognized internationally for his landscape works of minimalism.

The school also will host an exhibit of Van Valkenburgh’s most recent projects, “Michael Van Valkenburgh, Landscape Architect: Selected Works,” in Givens Hall, Sept. 24-Oct. 17.

The Monday Night Lecture Series is an opportunity to hear and meet well-known architects from throughout the world, said guest speaker Tahar Shaub, a member of the student committee that is organizing the lecture series.

The lectures allow not only the students at the School of Architecture but also the entire community a great opportunity to gain exposure to architects from all over the country and the world beyond.

The series is sponsored by the Student Union, which will continue with lectures in the fall.

• Thursday, Oct. 23, architect Daniel Libeskind, who designed the Jewish Museum in Berlin, will discuss "Beyond the Wall.”

• Tuesday, Oct. 28, Costa Rican-born architect and theorist will discuss his work. The lecture is co-sponsored by the Student Union and the Construction and the Products Council.

- Monday, Nov. 4, architect and landscape architect will discuss "Projects in Landscape Architecture and the Environment.”

- Monday, Nov. 11, Allan B. Jacobs, Ruth and Norman Moore Visiting Professor at Washington University and a professor in the City and Regional Planning Department of the University of California at Berkeley, will discuss "The Making of Great Streets.”

- Monday, Dec. 1, graphic designer Bruce Mau, of Toronto, Canada, will discuss "On Reproduction.”

For more information, call (314) 935-6778.

From Shakespeare and Schubert to science, UW-College offers courses and lectures

Study sacred wisdom, Shakespeare and Schubert or explore the frontiers of science. Among the course titles arts and sciences is offering is three short courses and a five lecture series on these topics.

Beginning in October, the three courses are:

- “Navajo and Tibetan Sacred Wisdom,” which explores similarities between Navajo and Tibetan Buddhist cosmologies, art and views on nature. Taught by Robert Moss, Ph.D., lecturer in Religious Studies in Arts and Sciences, the four-week course runs from 9:30 to 11:30 am Mondays, Oct. 2-26.
- The course fee is $80.
- “Shakespeare: Chronicles of War and Welfare,” will examine four of Shakespeare’s plays and attempt to discover both the writer’s vision and the society of the time. Taught by Seth Visser, Ph.D., research assistant professor in English, the eight-week course runs from 3:30 to 5 p.m. Tuesdays, Oct. 1-29.
- The course fee is free.
- “The Music of Franz Schubert” will emphasize the four main categories of the composer’s work — art songs, chamber music, songs and music for piano. The course will be presented by Sue Taylor, lecturer in music, and Steil Carlin, professor of music in Arts and Sciences. The four-week course is held from 2 to 3:30 p.m. Mondays, Oct. 6-27.
- The course fee is $80, $70 for Friends of Music.

Science Saturday, a series of lectures on “Fun and Investigating All Sizes and Shapes,” begins Saturday, Sept. 27. Each talk by members of the Department of Physics in Arts and Sciences will illustrate the diverse range of topics and its applications.

Courses are offered by UW-College and the physics department, the series runs 10 a.m. to noon Saturdays, Sept., 27 and Oct. 4, 18 and 25, in Room 201 Crown Hall. The lectures are free and open to the public.

- “Measuring the Very Large and the Very Small, the Very New and the Very Old,” presented by David W. Friedlander, Ph.D., professor of physics on, Sept. 27.
- “Elementary Particles: How These Fundamental Units of Matter Are Organized,” by Carl M. Bender, Ph.D., professor of physics on Oct. 4.
- “Cosmology: The Age, Size and Composition of the Universe,” by Yet Visser, Ph.D., research assistant professor, of physics on, Oct. 25.

For more information or to register for short courses, call (314) 935-6788.
Social work school recognizes six award recipients

The George Warren Brown School of Social Work honored two 1997 Distinguished Alumni and named four honorees to the School of Engineering and Applied Science in 1987 from the University of Illinois at Urbana-Champaign.

Manju V. Hegde, PhD, associate professor of electrical engineering in the School of Engineering and Applied Science, comes from Harvard University in 1982 with a bachelor's degree in electrical engineering and a master's degree in mechanical engineering.

Matheson served in the comparative literature program from 1970 to 1996, first as a visiting professor and for a number of years as chair. A distinguished poet and translator, he taught courses on almost 100 different topics, including narrative strategies, poetry and numerous cross-cultural themes, particularly those involving American, European or Japanese writing. He also served on the Assembly Committee for the PEN Center USA and wrote a column for the "Shinkokinshu," which is an extremely important collection of early 13th-century Japanese verse, and was really the focal point on campus for East-West comparative literature — the high point in Chinese Western literature and the Chinese and Japanese programs. He gathered an amazingly diverse group of people around himself.

In recent years, Matheson focused on writing poetry and his poems have been published locally, nationally and internationally. A limited edition of his "Ch-1-th mg's Album," which contains eight poems based on paintings by the mid period Chinese artist, was published in 1995. His most recent book, "Sufferings of Light: Selected Poems," was published in 1996. Matheson also taught several courses with Matheson.

Matheson received a bachelor's degree in electrical engineering in 1979 from the Indian Institute of Technology in Bombay and a master's degree in electrical engineering and a master's degree in applied mathematics at the University of Michigan at Ann Arbor.

William H. Matheson, professor emeritus of comparative literature

Andrew Krejci, engineering undergraduate

Andrew Krejci, an undergraduate at the University of Michigan at Ann Arbor, where he also earned a doctorate in French. Before coming to Washington University, he taught at Yale, Tufts and Brandeis universities, and was an active member of the American association for the advancement of science.

When Krejci began to study medicine in a degree program in 1964, he was 23.

In 1987, he earned a master's degree in electrical engineering degree from the University of Moscow-McGill University at St. Louis.

A funeral service was held Sept. 16 at Halff-Heimes-Krieger-Kuhs Funeral Home.
Campus information regarding these and other positions may be obtained in the Office of Human Resources. Faculty and staff applicants should obtain the job opening may appear at www.wustl.edu/hr/home. If you are seeking employment opportunities and are not currently a member of the Washington University staff, you may call for information at (314)1985-5777. Staff members may call (314)935-5906.

Lab Mechanic/Facilities Coordinator

Biology.

Lab Mechanic/Facilities Coordinator: Requires bachelor's degree and some experience in finance or health administration; five years of experience; and the ability to work flexible hours and overtime; ability to lift and carry objects; and ability to work at heights. Pay: $11.80. Call (314)1985-5993.

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