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Johannesburg.

The competition is the culmination of the work of 30 students from the University of the Witwatersrand. The students were tasked with designing a building that would commemorate the history of apartheid and the struggle against it. The winning designs, which were chosen from a pool of 151 entries, were unveiled in a ceremony at the Apartheid Museum.

Jo Noero, the lead architect, said that the designs were a reflection of the students' passion and commitment to the cause.

The museum seeks to remember the past in ways that are both familiar and surprising, said Noero, whose designs will help transform the site of a shantytown into a living history complex. "One of the horrors of apartheid is the sense of normality — the ability of its perpetrators to shut out justice, the ghastly consequences of institutionalized racism. And yet, at the same time, the sense of impending terror in the country was real," he said.

The competition was the culmination of a project that was started two years ago when the university commissioned 30 students to design a building for the Apartheid Museum.

"There is no time that the pope will not be seen at the University during his papal visit, but Hilltop and Medical Campus officials are seeking to it that faculty, staff and students will have ample parking and access to our facilities. Contrary to reports in the local media, the welcome parade lin. 26 will not begin at the University. "There is no time that the pope and his motorcade will be on Washington University grounds," said Steve Hoffner, assistant vice chancellor for students and director of student life.

The public parade route will begin several hundred feet east of Skinker and Lindell. People who want to see the pope will have to go to Forest Park along Lindell. Everyone expects that point will be a high-speed motorcade. If people come to the University to see the pope, they're doing themselves a disservice because they won't see him," he said.

While spectators need to head east of the campus for a view of the pontiff, faculty staff and students entering campus will be directed to access points along Forest Park. The parade will exit Forest Park at Lindell, where permits will be checked.

"Beginning on Monday, Jan. 25, the day before the pope arrives, several access points to the University campus will be closed," Hoffner said.

"People who are seeing us to it that the University during the papal visit to obtain one-day passes from the transportation office in advance. "Anyone without a University permit or legitimate University business will not be allowed to park on the campus," he said.

Motorists should expect delays due to heavy traffic and road closures. Please note the following list:

- Tuesday, Jan. 26: Forest Park Boulevard
- See Sastry, page 6
Win-Win

MBA students gain experience, help nonprofit agencies

By Nancy Belt

through Jan. 11, spent a minimum of 48 hours working with two or three teammates on an agency’s best project. Most spent much more than that, some more than 100 hours, and for all it was a total-immersion process. For some, it represented the kind of learning that most attracted them to the business school. “I knew Will-Olin was known for its community service, and I wanted to be a part of that,” said Lisa Kegel, MBA ’97. Her team worked with St. Louis Hillel, a university, for Jewish college students throughout the area. They explored ways to use Hillel’s access to 2,500 kosher kitchen to produce revenue for the company. “I’ve always been involved in volunteer work,” Kegel said, “and this project was a great match. As we helped Hillel apply marketing concepts, we were applying what we learned in class.”

Adding to the effectiveness of the Taylor program each year are consultants from Ernst & Young LLP, whose time is donated by the company. This year, 16 were paired and worked throughout the week with an assigned student team, and two were manager consultants, also known as the “bucket brigade,” who were accessible to all teams during two days at the business school to help “put out fires.” The collaboration allowed students to experience savvy management’s controlling firehose. It also allowed consultants to enjoy and assist a learning process contributing in many ways to the community, as well as to observe skills of those who may be potential interns or employees. “This has been an amazing experience,” said Brad Baker, manager at Ernst & Young, who was on the bucket brigade. “It’s wonderful to see so many students enjoying helping others and showing great dedication and commitment by giving up a week of their break. It’s a great way for all involved to give back to the community.”

Taylor Program students believe that they are providing something an agency truly needs but lacks dollars, time or expertise to acquire. “The head of an agency may be a minister, an attorney or other professional, has training and focus to provide a specific service, but not necessarily financial analysis,” Baker said. “That’s where we can come in handy.” Since they are very impressed with the caliber of students involved, “They’re bright, eager to help, well-prepared, articulate, and they show a high level of commitment,” he said. Participating agencies benefit greatly, too. Charles Caspari, executive director of Sherwood Forest Camp in Lavarde, Mo., which offers a summer camp experience to disadvantaged youth, said the agency was very impressed with results of their Taylor project this year, as well as in previous years. This year, four students and a consultant from Ernst & Young helped develop relational data bases including a mailing list of 7,000 for fund-raising and other purposes.

“The students brought solid business skills to the table,” Caspari said, “and their expertise and concentrated work, combined with that of Steve Melnick from Ernst & Young, really paid off,” he said. The Taylor program, begun in 1992, has grown dramatically. In 1997, four agencies and 19 MBA students participated. In 1998, 19 MBA students and 63 student participants. This year, 21 agencies and 70 students participated.

“Despite the increased for varied reasons,” said Russell Roberts, director of the Taylor Program, “it seems people are more and more of our students really want to contribute to the community.” On Jan. 11, each student team made a final presentation to their assigned agency and Enterprise Rent-A-Car and Ernst & Young representatives. In addition to intangibles gained, participating students earned one hour of credit and received grades on the quality of their work and a $100 stipend. Throughout the process, students gain an experience that can help them in their careers and assist a learning process, as they provided invaluable insights—something we always seem to forget—good lesson for all.

In direct contrast to the memory boxes, visitors to the L-shaped museum will first be greeted by a wall of 40 to 50 columns, designed by artists to resemble totem poles celebrating those who are critical in their lives—the anti-apartheid heroes. Having seen first-hand how the apartheid government used architecture and planning as tools of racial and division, Noero now works to use architecture as a tool to heal. “The Apartheid Museum contains the memory boxes—one that will not let us forget apartheid’s atrocities and those who suffered and those who began to hope for an African renaissance.”
decade at universities and at Barnes-Jewish Hospital. Magnetic surgery Dec. 17, 1998, an old man, underwent the nant and plan appropriate vision, instead of gi...
Art, politics, novels, opera on tap at University College

First of four short courses begins Jan. 27

This spring, University College in St. Louis will offer four short courses on art, politics, novels and opera, with the courses' settings in the art in the context of his Parishian contemporaries Matisse, Picasso, Braque, Leger and Rouault. It will be closely tied to an upcoming exhibition at the museum. The course meets from 1 to 2:30 p.m. Wednesdays, Feb. 3, 10 and March 3. The cost is $10 and also includes a symposium Feb. 27, with leading international researchers at the center of the ways music has grown in popularity through four novels — Matthew Lewis' "The Monk," Mary Shelley's "Frankenstein," Bram Stoker's "Dracula" and Oscar Wilde's "The Picture of Dorian Gray." The course meets from 11 a.m. to 12:30 p.m. on the following Wednesdays: Jan. 27, Feb. 24, March 23 and April 28. The course costs $80.

Hugh Macdonald, Ph.D., the Arts and Sciences professor and chair of the Department of Music in Art, Sciences and Sue Taylor, Ph.D., lecturer in music, will team up to present the course "Music, Verdi and Bizet — Mainstays at Opera Theatre St. Louis." The four-session course will focus on jealousy as a theme using opera excerpts from the opera theatre's 1999 season, including "The Marriage of Figaro," "Otello," "The Last Judgement" and "The Merchant and the Courtesan." The course meets from 10 to 11 a.m. every Monday in April. The course costs $80.

Students will be notified of course location upon registration. For more information email, call 935-6788.

"Black Telegraph: A Documentary History." This course is co-sponsored with the American Historical Association and will be held at 3 to 4:30 p.m. on Wednesdays, Feb. 24, March 10 and April 14. The course costs $80.

Cancellation of art courses is rare. In the event of a conflict with another University program, University members will be given priority.

For more information, call 935-6788.
**Performances**

**Friday, Jan. 22**

6 p.m. DUNTONS Series performance: Transposition

"70 Hill Lane" (Film)


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**Miscellany**

**Friday, Jan. 22**

6:30-7:30 p.m. Annual Unit Society Family Night. WU. Room of Rochelle Field House. 933-5200.

8 p.m. Women's basketball game vs. Brandeis (at Haverford College, last Friday). The Bears came within two points in the second half but used a 16-point run to pull away for their sixth win of the season. Junior Alia Fischer scored a season-high 19 points and added a team-high 12 rebounds. Sophomore Tasha Warshawski, managing director of Edition Theatre, following a performance of "70 Hill Lane," described the performance as "fitting for the audience's ears a series of ephemeral creations that variously serve as stage set, prop and character. A human-scale three-story house is spun around.

When she was 15, the story goes, Phelim McDermott and London's Improbable Theatre spin inventive stage sets from Scotch tape and newspaper.

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**Sports**

**Friday, Jan. 15**


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**Woman's Club 'University Night' set**

The Woman's Club of Washington University is offering University faculty, administration, staff, graduate students and their guests to its annual University Night event Jan. 22.

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**Wommen's club 'University Night' set**

The Woman's Club of Washington University is offering University faculty, administration, staff, graduate students and their guests to its annual University Night event Jan. 22.

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**Art:** Matt Mullican at School of Art Jan. 20

**What Art lecture**

Where Steinberg Hall Audition Room

When 7:30 p.m. Wednesday, Jan. 20

Admission Free and open to the public

"Matt Mullican is a cosmologist," said Michael Byrnes, associate professor of painting in the art school, who has curated an essay on Mullican's work to accompany the catalog that accompanies the exhibition. "He has gone to great lengths to produce — in a way — monumental materials that includes banners, stained glass, granite and metal — a system of symbols describing his view of the universe. He has developed a visual grammar for various aspects of existence, codifying everything, tangible and intangible, and providing a system through which to order the world."

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**Who is Matt Mullican?**

Matt Mullican was born in 1967, and directed "A Midsummer Night's Dream" for the English Shakespeare Company, which won a TMA Regional Theatre Award for Best Touring Production. "70 Hill Lane" is only the second production by the Improbable Theatre, which was founded in 1996. Nevertheless, the show has garnered international attention, with performances in Egypt, Malaysia, Belgium, Germany, Greece, Canada and the United States. Tickets are $23 and are available at the Edition Theatre Box Office; 933-6543, or through credit card (513-544-1111). For tickets, see 933-0643.
Genome

Researchers obtain worm's genetic 'instructions'

from page 1

The worm sequence is eight
times longer than the yeast sequence
that was announced in 1996, and it is
the first for an organism with
more than one cell. Therefore, it
will enable biologists to determine how
multicellular organisms like
carcasses are put together.

Comparing the endeavor
to space exploration, Francis
Collins, M.D., director of the
National Human Genome Research
Institute (NHGRI), said, "If getting the sequence of a
bacterium was analogous to Alan
Shapiro going up and coming
down right back down, getting the
sequence of yeast was rather like
John Glenn going up and
circling the globe a few
times and coming back down.
On that scale,
getting the
sequence of the round-
worm is rather
good going to the moon."
The NHGRI
gave the School of Medicine
about $35 million for the worm
project.

Because counterparts to three-
fourths of known human disease
genes have been found in the
worm, the animal will be
irreplaceable for medical research
because it can be squatted in worms
that are impossible in humans.
As well as discovering the
function of some genes,
scientists will determine how
groups of genes
work and how the
harmful effects
of faulty genes can be
overcome. The
worm will be
a powerful tool for
drug discovery.
C. elegans also
prominently in biology studies,
and its DNA base sequence should reveal how genes
are regulated and development,
reproduction and aging that are common
to worms and humans.

Scientists around the world
have free access to data from the
worms, which will be
posted daily on the
World Wide
Web. This has the standard
for publicly funded genome
sequence.

Asked about the project's
recent funding
findings, William
Waterston listed the
other pioneers
in the worm:
about a fourth as many as in
humans — and the organization
of the animal's chromosomes.
"The DNA in the middle holds
critical genes that need to be
protected from evolution," he
explained. "The ends can be
thought of as gene nurseries and
gravesyards where genes are
repeatedly found and lost."

Other scientists are
mining the worm sequence for all
gene information
needed to specify an animal
putting a very specific
model. William
Waterston said, "The task ahead
is to figure out what
the worm's DNA
and how it is
achieved, making
predictions among
the 14,000
genes, that is
still a small sample in
what is going on in humans.

The worm project also lump-
streamed together the
three feet of DNA that carries
genes. By 1996, the worm
community had
struggled the scientific community
that their technologies
match a genome with 5
billion letters.
The technologies have
advanced so far that the
12:13 p.m. — A student reported
that between 11 a.m. and noon
someone stole an unattended
laptop computer, valued at
$2,600, from the second floor
of Anheuser-Busch Hall.

2:01 p.m. — Several fraternity
members discovered a man
inside #4 Fraternity Row carrying
a laptop computer. The students
chased the man from the house.
As he was leaving, he threw the
computer against a wall, causing
it extensive damage. The man
fled in a Dodge minivan. An
investigation is continuing.

University Police also responded
to 19 additional reports of theft, 13
reports of vandalism, four reports
of breaking, two additional
reports of burglary, two reports
of attempted burglary, two arrests
for outstanding warrants, two
reports of fires, two disturbance reports,
two reports of telephone harassment
and a drug paraphernalia

Sastry

Engineer named first
Byrnes professor

from page 1

Chris and Cathy Byrnes and the
Institute for Advanced Studies
Offered Endowed Chair

University of Washington in St.
Louis. Catherine M. Byrnes has
volunteered her time and energy
to several not-for-profit
organizations, including being
president of the Girl Scouts.
She is an active
member of the engineer-
ng school's
effort to
enhance
education and
research.
She and her husband are
active members of the St.
Kathleen, Allison and
Cheryl Byrnes.

Sastry: Pioneer

in materials science

Sastry Planning for traffic,

traffic during visit

from page 1

Parkway will be closed from
approximately 1:30 to 3 p.m., and
all access roads to Forest Park
will be closed again from 5:30 to 6:30 p.m.
during the pope's departure.

The University's shuttle
service will not operate from noon
to 2:30 p.m.

Wednesday, Jan. 27: Forest
Parkway will be closed to
residents twice.
All the north/south streets that cross
the parkway will have traffic
blocked at this time.

Bill Taylor, director of the
Police Department, said people
will need to be patient, because
huge crowds are expected for the
twodays.

"Everyone is that between half a
million to a million people from
the St. Louis area will
be here. We are concerned with
the pope participating
in the extra traffic
point at Lindell," he
said.

Lindell, between Euclid and
Westview avenues will be closed to
traffic from approximately 1 p.m.
to 6:30 p.m. on Jan. 27.

Because the pope will be
standing outside, park
covers several blocks from the
Washington University Medical
School campus.

Elmo and
Richard
Traffic Director

Sastry has performed
research in
crystallography, materials
and composites. The super plastic
forming process maps he
developed there have potential
to be extremely useful in the
manufacturing of aerospace
parts. His pioneering research in
rapid solidification processing
would be beneficially
used.

"Sastry: Pioneer in
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Van Fleet to direct social work alumni and development

Ronald N. Van Fleet II has been appointed director of the social work school, said: "We are fortunate to have Ron join our team as we continue to meet the existing challenges and present new opportunities." During his time as associate director of development, Van Fleet served as associate director of development at the John M. Olin School of Business and has been instrumental in many of the school's departments, including building a very active Executive MBA alumni association.

Linda B. Catlett, Ph.D., to professor of psychology

Cristine E. Courtis, M.D., to assistant professor of radiology

Stephen R. Crepeau, M.D., to associate professor of clinical orthopedic surgery

Samuel E. Dагo-Jack, M.D., to assistant professor of medicine

Rosa Maria Davila, M.D., to assistant professor of obstetrics and gynecology

Ferndah Deaibashi, M.D., to assistant professor of radiology

Lucien X. Dieter, M.D., to assistant professor of obstetrics and gynecology

Brian D. Girez, M.D., Ph.D., to assistant professor of radiology

John F. DiPersio, M.D., Ph.D., to assistant professor of medicine (also assistant professor of radiology)

J. Christopher Engen, M.D., to assistant professor of orthopedic surgery (general surgery)

Jonah E. Epstein, M.D., Ph.D., to associate professor of medicine (also assistant professor of neurology)

James W. Forren Jr., M.D., to associate professor of medicine

Vladimir Freazer, M.D., to professor of medicine (also associate professor of obstetrics and gynecology)

Elizabeth A. Gillis, M.D., to assistant professor of medicine

Jamil H. Gohih, M.D., to assistant professor of medicine

Marc C. Johnson, M.D., to assistant professor of physical medicine and rehabilitation

Ronald Kinselher, M.D., to director of clinical orthopedic surgery (general surgery)

George Robert Kitzkian, M.D., to assistant professor of clinical orthopedic surgery

David Kuh, M.D., to assistant professor of medicine

Mark M. Kulit, M.D., to assistant professor of medicine

John M. Lanza, M.D., to associate professor of medicine (also assistant professor of orthopedic surgery)

Ben Wu Li, M.D., to associate professor of medicine

Mark P. Lowe, M.D., to assistant professor of pediatrics and associate professor of molecular biology and pharmacology

Peter D. Lukasiewicz, M.D., to assistant professor of medicine (also professor of molecular biology and pharmacology)

William G. Marley, M.D., to assistant professor of pathology

Laura M. Marlow, M.D., to assistant professor of obstetrics and gynecology

David B. Wilson, M.D., to assistant professor of medicine (also associate professor of molecular biology and pharmacology)

Larisa V. Del Priore, M.D., to assistant professor of ophthalmology and visual sciences

Anne Fagan Wang, M.D., to research assistant professor of medicine

Robert W. Thompson, M.D., to associate professor of clinical medicine

Mitchell G. Scott, Ph.D., to assistant professor of pathology (also associate professor of physiology)

Robert B. Shuman, M.D., to associate professor of pathology

Robert J. Gropler, M.D., to associate professor of medicine (also professor of biochemistry and molecular biology)

Laura M. Hebert, M.D., to assistant professor of medicine (also associate professor of biochemistry and molecular biology)

Pamela K. Woodard, M.D., to assistant professor of medicine (also associate professor of biochemistry and molecular biology)

Pablo Reina, M.D., to assistant professor of medicine

Jeffrey W. Teckman, M.D., to assistant professor of medicine

Rose Tepencoloth, M.D., to assistant professor of ob gynecology and of molecular biology

David B. Wilson, M.D., to assistant professor of medicine (also associate professor of biochemistry and molecular biology)

Alex S. Wennemer, M.D., to professor of clinical medicine

Susan R. Weiss, M.D., to assistant professor of cell biology and pharmacology

David B. Wilson, M.D., to assistant professor of medicine (also associate professor of biochemistry and molecular biology)

Pavel Tresil, M.D., to assistant professor of pathology

Mark A. Wawer, M.D., to assistant professor of biochemistry and molecular biology

Leonard B. Weinstock, M.D., to assistant professor of pathology

Alex S. Wennemer, M.D., to professor of clinical medicine

Susan R. Weiss, M.D., to assistant professor of cell biology and pharmacology

David B. Wilson, M.D., to assistant professor of medicine (also associate professor of biochemistry and molecular biology)
control systems analysis and his solution of longstanding systems science problems. He came back home from Scandinavia's leading engineering school with a diploma, an elegant top hat and ring, and the gratifying feeling that "it can't get much better than this."

It got better than that less than three weeks later, when Shankar, M. I. Sato, and I. Byrnes was installed as the first Catherine M. and Christopher I. Byrnes Professor of Engineering Dec. 8, 1998, an appointment made possible by an anonymous donor. Catherine Byrnes, Chris Byrnes praised the engineering school family and the culture that encouraged an anonymous donor. "It doesn't," he added with conviction, "get better than this."

Byrnes' life progression, in short, is a story of making things better — for his research specialty, systems science and control for the institutions he serves; and for the engineering school. The free education where he's taught are legion. Byrnes has been a tenured professor at three universities since 1973 — Harvard, Arizona State and Washington University — and in that span he has held visiting appointments at institutions in Austria, France, Germany, Italy, Japan, the Netherlands, Sweden and the former USSR, as well as Harvard, Stanford and the University of Kansas. At both Harvard and Arizona State, Byrnes held joint appointments and taught courses in computer science, electrical engineering, mathematics and physics.

He is an international figure in systems science, and his reputation as a leader of a large, progressive engineering school is constantly growing. His problem-solving abilities are legendary, making him an attractive specialist to institutions worldwide.

Systems Science

Byrnes' field is systems science and control. It owes much of its development to technology that came during and after World War II. Radar, for instance. The Battle of Britain was won not by integrating them into an active system that could manage detecting many planes quickly. Television, with its 10,000 active elements, is another example. The systems approach is to design a number of subsystems and interconnect them with amplifiers and other feedback devices and then use the feedback devices so that, in the case of TV, the system deals with a small number of subsystems to get both a good picture and quality sound.

Over the years, Byrnes and his colleagues have used innovative geometrical and algebraic methods to improve a variety of automatic control problems, ranging from electrical power systems and the synthesis of speech to signal processing, among many others. The gala end of 1998 for Byrnes contrast vividly to his childhood in New York City. The oldest of four children, Byrnes was raised by a mother who stayed at home and a father who worked as a city bus driver and later as a dispatcher.

Byrnes has been a man on the go from his college days, when he funded a summer job in 1969 with the United States between his graduate school days. Byrnes was drawn more closely to the late 70s and early '80s, and I always knew I wanted to come here, when the time was right," Byrnes said. "In 1989, Catherine and I were eager to come here; and one of the attractions was the appointment of my collaborator, Alberto Isidori, a renowned mathematician and the outstanding reputation Washington University has had in my field.

Eighth dean

Byrnes became the eighth dean of the engineering school in 1991. As dean, he has ushered in many innovations, strengthened ties and activities with alumni and helped most undergraduate applications from 1400 in 1994 to over 3000 in 1998, at a time of declining national enrollment in engineering. The school has developed an internationally recognized research program in networking and information technologies and started a very popular Department of Biomedical Imaging and Informatics in 1997.

When asked about his greatest professional accomplishment, Byrnes said, without hesitation: "Serving as dean of engineering at Washington University. Despite the serious challenges a decade ago to engineering nationwide, the school has emerged stronger and for several reasons. He cited recruiting and retaining outstanding faculty, the investment and support of alumni and a clearly focused strategic plan, which the entire school family helped develop.

Byrnes praised the school's students for their drive and leadership and the faculty, noting that many five years faculty members have been involved in the start-up of 15 enterprises, and 13 faculty members have received prestigious career award grants.

Looking into the next millennium, Byrnes is optimistic and very grateful. "I am so proud of the School of Engineering and Applied Science. I believe that the phenomenal success in undergraduate recruitment will make us equally successful in graduate recruitment, and there are many major accomplishments that we achieve. As Cathy and I said at the installation of Dr. Shafter, 'it doesn't get any better than this.'