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Engineer’s design finds many uses

With rare exceptions, such as radio carbon-dating or the Dead Sea Scrolls, scientists have been unable to authenticate tears or blood reported associated with the Shroud of Turin or authenticate its light of day in business and personal transactions. The Shroud of Turin, which dates from religious icons, science and religion seldom interact. In fact, they are often at odds.

But now, a mechanical engineer at Washington University is contending how to solve an old problem in his synagogue and literally harness light and reflection to enhance prayer and the religious experience.

Richard L. Axelbaum, Ph.D., associate professor of mechanical engineering in the School of Engineering and Applied Science, has developed a new optical design to accommodate worshipers in Orthodox Jewish synagogues. The design also may see happening on the men’s side — for the males — focused attention is to keep worshippers — mechitza. The separation called a mechitza.

Women are required to worship apart and are separated by a partition called a mechitza. The separation is to keep worshippers — particularly the males — focused on the opaque side (the men’s worshipper’s reading ability. Two, women are required to worship apart and are separated by a partition called a mechitza. The separation is to keep worshippers — particularly the males — focused on their wives when they look at their own reflection. Darkness obviously hinders a worshipper’s reading ability. Two, on the opaque side (the men’s side), the view is a mirror reflection, which itself is a distraction to a worshipper whose eyes may wander to his own reflection.

Axelbaum applied for a patent for his design in late 1997 and received the First National Council of Young Israel’s Synagogue Innovation Award March 22 in New York. The award recognizes individuals who distinguish themselves by bringing modern techniques to synagogue design while remaining within Orthodox Jewish guidelines.

In Orthodox Judaism, men and women are required to worship apart and are separated by a partition called a mechitza. The separation is to keep worshippers — particularly the males — focused on their wives when they look at their own reflection. Darkness obviously hinders a worshipper’s reading ability. Two, on the opaque side (the men’s side), the view is a mirror reflection, which itself is a distraction to a worshipper whose eyes may wander to his own reflection.

People have tried traditional see-through mirrors to solve the problem, but they found that design actually creates two other problems. One, it requires that the lighting on the observer’s side (the women’s, in this instance) be much darker so that the observer does not see her reflection. Darkness obviously hinders a worshipper’s reading ability. Two, on the opaque side (the men’s side), the view is a mirror reflection, which itself is a distraction to a worshipper whose eyes may wander to his own reflection.

Continued on page 5

Nobuo Suga is elected to Academy of Sciences

Nobuo Suga, Ph.D., professor of biology in Arts and Sciences, was elected April 28 to membership in the National Academy of Sciences, one of the highest distinctions a scientist or engineer can achieve.

Suga, a member of the Washington University faculty since 1969, has concentrated his career in neuroscience and has become internationally known for his studies in the neurophysiology of hearing, a vital function. He is one of five new members of the academy elected to its 1,911-member governing council on April 27.

Suga was elected to the academy for his contributions to the field of auditory physiology, particularly in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bat echolocation, that is, the breaking discoveries in the complex mechanisms involved in bats.

Continued on page 6

Designing furniture

Architectural graduate student Mark Yoo (right) discusses his chair design and its tensegrity principles with architecture alumni David Schae, Schae, co-owner of Irv Schae Wood Work in St. Louis, served as one of the reviewers of student work in the furniture design studio of Lindsey Stouffer, lecturer in architecture.

On the inside

Bacterium toeholds ... 2

Researchers discover why only some people with the peptic ulcer bacterium get sick

Intellectual riches ............ 3

Ahmed Karamustafa, Ph.D., finds wisdom for our age in premodern Islamic cultures

Education in ethics ....... 5

Law students in a Washington, D.C., course study legal ethics in a charged climate

The Walk of Fame is the brainchild of Joe Edwards, who with his wife, Linda, is proprietor of two Loop area businesses: Blueberry Hill, a rock-themed restaurant and pub, and the Trellis Theatre. Edwards began the walk in 1988 as a way to commemorate St. Louis’ contribution to American cultural life.

Continued on page 5

Dedicating Goldfarb Hall

Former New York Gov. Mario Cuomo addresses faculty, staff, students, alumni and friends at the dedication of the new Alvin J. Goldfarb Hall at the George Warren Brown School of Social Work Friday, May 1. (From left) Shanti K. Khindru, Ph.D., dean of the social work school, philanthropist Alvin J. Goldfarb and Chancellor Mark S. Wrighton share the platform with Cuomo.

Dedication of the new Alvin J. Goldfarb Hall at the George Warren Brown School of Social Work

Walter Cronkite, former senior correspondent for “CBS Evening News” and a former Washington University journalism professor, addresses students and faculty Friday evening in Gruskin Hall, during the dedication of the new Alvin J. Goldfarb Hall at the George Warren Brown School of Social Work.

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Mohanakumar awarded named professorship

This new appointment is a tribute to Tsien's recent research, Mohanakumar's superb and unique research background and the championship of visionary civic leaders Bill and Nancy Simons. They said that they had been impressed by the excellence of the research, and the potential of the project.

The appointment was announced by Moira Mohanakumar, M.D., the Bisby Professor and chair of surgery, and Peter L. Slavin, M.D., president of the Barnes-Jewish Hospital Foundation.

Richard W. Tsien, Ph.D., will be the Ronald and Nancy H. Bliss Professor of Biology and of Cell Biology and Physiology at the University of California, San Francisco. He is known for his research on the molecular basis of learning and memory, and for his work on the genetic control of neural function.

Tsien is the founder of the Tsien Lab, which has developed new tools for studying the brain, and is now the director of the Tsien Lab at the University of California, San Francisco. He is also the co-founder of the Tsien Institute for Molecular and Cellular Biology, which is dedicated to the study of the molecular and cellular basis of learning and memory.

Tsien's research has won him numerous awards, including the Nobel Prize in Physiology or Medicine in 2004, and the Gairdner Foundation International Award in 2006. He is currently the director of the Tsien Lab at the University of California, San Francisco, and is also the director of the Tsien Institute for Molecular and Cellular Biology.

The grant will cover four research projects all related to a central theme: understanding the biology of the skin. These research studies will be the basic mechanisms controlling skin development, normal epidermal biology and responses to injury.

"Numerous diseases and conditions affect the skin, and we have an interest in understanding them, so we need to know more about normal skin biology," said Park. "We have several ongoing projects in this area, and we are hoping to gain new insights into the causes of skin disease."
Karamustafa mines riches of Islamic cultures

Ahmet Karamustafa, Ph.D., traces the evolution of legal, spiritual and philosophical thought through the great traditions of Islamic civilization.

He is a respected scholar who has traced the evolution of legal, spiritual and philosophical thought through the great traditions of Islamic civilization. Karamustafa's research requires an intimate understanding of the place of religion in human life, as well as in his specialty, but also in other areas such as classics and the self. Because it is currently in fashion, he suggests, by reading his treatise on the evolution of Islamic traditions. Karamustafa's research involves publishing a critical analysis of an ancient manuscript that is piece together the shards of a shattered ceramic vase, as Karamustafa said. "First you have to determine if the shard is part of your vase, and then you figure out where it fits. In my work, that requires competency in the language, the sheer tenacity to find manuscripts lost in the holdings of vast libraries and then having the detective skills to establish reliable a text."
Exhibitions

"Bachelor of Fine Arts Thesis Exhibition." Opening reception Friday, May 8, 5-7 p.m. Through May 15. Gallery of Art, 823 McDonnell Medical Sciences Bldg. 362-6950.

Lectures
Thursday, May 7

11:15 a.m. Center for Mental Health Services research seminar. "Surveying Service Providers." Nancy W. Bowerman, inst. of molecular biology, U. of Missouri. Research in Bombay, India, Pal has had a distinguished career in cosmology research, high-energy particle physics and astrophysics. When India launched a massive space program in the 1970s, Pal was asked to head the Space Application Centre responsible for developing instruments for the payloads. Pal, former secretary general of the United Nations Global Programme, was chair of India’s National Council of Science, Mathematics and of the University Grants Commission, which coordinates and guides India’s universities. Today, Pal hosts the most popular science television program on India’s national television network. For more information on his talks, call 935-6279.

11 a.m. Physics lecture. "Science, Global Consciousness and Globalization. (See story below.)


4 p.m. Biology seminar. "Regulation of the tubulocytic Cell Cycle.

Indian astrophysicist to lecture on science and globalization

Y ash Pal, an astrophysicist who turned television celebrity into important research, will discuss "Science, Global Consciousness and Globalization." Noon, Monday, May 11, in Room 241 Compton Hall. Pal, who is visiting the University May 8-11, also will participate in a discussion on Stereogenetics and the Relationship Between Washington University and India" with Clark L. Cunningham, J.D., professor of law, at 2 p.m. Monday in Room 313 Compton Hall. Both talks are free and open to the public.

A former professor at the Tata Institute for Fundamental Research in Bombay, India, Pal has had a distinguished career in cosmology research, high-energy particle physics and astrophysics. When India launched a massive space program in the 1970s, Pal was asked to head the Space Application Centre responsible for developing instruments for the payloads. Pal, former secretary general of the United Nations Global Programme, was chair of India’s National Council of Science, Mathematics and of the University Grants Commission, which coordinates and guides India’s universities. Today, Pal hosts the most popular science television program on India’s national television network. For more information on his talks, call 935-6279.

Exploring new trends

Brian Guenther (right), a senior and teaching assistant at the School of Architecture, inspects the craftsmanship of an I-beam cubic structure co-designed by architecture freshman Jamey Stradell (left), structured in accordance with the "What's New" theme. The cubes, designed by students in Associate Professor of Architecture Jim Harris's studio to express different aspects of the "What's New" theme, are slated for display in several locations throughout the campus.

MisceIAlleny
Saturday, May 9

Monday, May 11
2 p.m. Discussion. "Strengthening the Relationship Between Washington University and India." (See story on this page.)

Visit Washington University's on-line calendar at http://ch8900.wustl.edu/calendar/events/v3.1/May7-16/
Law students explore ethics issues in highly charged capital climate

Pulsa Jones, Monica Lowinsky, Linda Tripp, Kathleen Willey, Kenneth Starr, Monica Lewinsky, and Bill Clinton — these names are well known to the American public. Yet another name, Paula Jones, is now just as famous.

The 30-year-old Arkansas woman is the woman whose sexual harassment lawsuit against President Clinton has attracted national media attention. The lawsuit was filed in March of this year, and the trial is scheduled to begin on May 11. Ms. Jones is seeking unspecified damages, and the President's lawyers are seeking to have the case dismissed.

The case has been the subject of intense media coverage, and it has raised questions about the President's conduct and the role of power in our society. The trial is expected to be a highly charged and publicized event, and it will undoubtedly have a significant impact on the political landscape.

In the meantime, law students are grappling with the ethical issues raised by the case. Many are taking courses in ethics, including a course at the University of Washington Law School that focuses on the legal and ethical implications of the Paula Jones case.

The course, taught by Professor Kathleen Clark, J.D., associate professor of law, in conjunction with the Environmental Protection Agency, has been highly popular. Students have had the opportunity to attend the trial and to discuss the ethical issues that arise in high-profile cases.

Professor Clark has been particularly impressed with the students' interest and engagement. "They are really thinking about the ethical issues involved," she said. "I think they are really getting a sense of what it means to be a lawyer in this kind of situation."

The course has also provided students with valuable practical experience. Students have worked on a variety of projects, including a case involving the disclosure of information to the public, and a case involving the use of whistleblower laws.

"The course has been a great learning experience," said one student. "I think it has helped me understand the ethical issues involved in high-profile cases."
April Welcome '98 brings 1,107 students to campus

A record-breaking number of visitors came to Washington University last month for April Welcome. A total of 1,107 admitted students and their families attended the sixth annual event, up 24 percent from last year's numbers. In addition, 259 Sentinel staff and 400 volunteers participated in the cultural celebration weekend held April 16-19, an increase of 22 percent from 1997. About 500 high school juniors also visited campus during April. "April Welcome is a meaningful opportunity for admitted students to experience the University, community and the St. Louis area," said one student who participated about half week until the University, said Nanette Clift, director of recruitment in the Office of Undergraduate Admissions.

"We are thrilled to have welcomed a record number of admitted students this year," Clift said. "As in past years, our visitors found a warm and friendly atmosphere. I have your students more than welcome after half of the University, said Nanette Clift, director of recruitment in the Office of Undergraduate Admissions.

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Suga elected to Academy from page 1

His results might have implications for human health as well as biotechnology. "A key understanding of how the human brain behaves substantially corresponds to a better understanding of light, reflection and optics," Suga said. "I am much impressed by the concept directly, just out of the corner of my eye," he explained. "I was just trying to imagine, but that started me thinking about putting the see-through glass at an angle, and then the idea for the design started to form." While there may be other applications as a result of his concept, Suga said it is his greatest pride in its use to enhance the visual experience.

— Tony Fitzpatrick

University where he received a bachelor's degree in 1958 and a master's degree in 1960. He later joined the Harvard University and began his studies at the medical school.

Suga has worked extensively in the area of neuroscience, particularly on the role of the visual cortex in the brain. His research has included studies on the development and function of visual neurons, as well as the role of visual experience in the formation of neural connections. His work has been published in numerous scientific journals and has contributed significantly to the field of neuroscience.

— Tony Fitzpatrick

April 28

A student reported illegal access to and use of an e-mail account at Richard Talley's computer. An investigation is continuing.

April 27

A faculty member reported being pushed by a biker in a hallway in Crow Mall. The faculty member recognized the bicyclist as a student and shouted for the man to stop. Later, the students were seen in the same area of Crow.

April 26

A student reported the theft of a rental amplifier from the campus security office.

April 25

A student reported the theft of a bicycle from Mallinckrodt Center.

April 24

A student reported the theft of an unlocked office key.

April 23

A student reported the theft of two pairs of sunglasses.

April 22

A student reported the theft of a wallet.

April 21

A student reported the theft of a cell phone.

April 20

A student reported the theft of a laptop computer.

April 19

A student reported the theft of a backpack.

April 18

A student reported the theft of a scooter.

April 17

A student reported the theft of a backpack.

April 16

A student reported the theft of a wallet.

April 15

A student reported the theft of a cell phone.

April 14

A student reported the theft of a backpack.

April 13

A student reported the theft of a laptop computer.

April 12

A student reported the theft of a wallet.

April 11

A student reported the theft of a backpack.

April 10

A student reported the theft of a cell phone.

April 9

A student reported the theft of a backpack.

April 8

A student reported the theft of a laptop computer.

April 7

A student reported the theft of a wallet.

April 6

A student reported the theft of a backpack.

April 5

A student reported the theft of a cell phone.

April 4

A student reported the theft of a backpack.

April 3

A student reported the theft of a laptop computer.

April 2

A student reported the theft of a wallet.

April 1

A student reported the theft of a backpack.

March 31

A student reported the theft of a cell phone.

March 30

A student reported the theft of a backpack.

March 29

A student reported the theft of a laptop computer.

March 28

A student reported the theft of a wallet.

March 27

A student reported the theft of a backpack.

March 26

A student reported the theft of a cell phone.

March 25

A student reported the theft of a laptop computer.

March 24

A student reported the theft of a wallet.

March 23

A student reported the theft of a backpack.

March 22

A student reported the theft of a cell phone.

March 21

A student reported the theft of a laptop computer.

March 20

A student reported the theft of a wallet.

March 19

A student reported the theft of a backpack.

March 18

A student reported the theft of a cell phone.

March 17

A student reported the theft of a laptop computer.

March 16

A student reported the theft of a wallet.

March 15

A student reported the theft of a backpack.

March 14

A student reported the theft of a cell phone.

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A student reported the theft of a laptop computer.

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A student reported the theft of a wallet.

March 11

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A student reported the theft of a wallet.

March 7

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A student reported the theft of a cell phone.

March 5

A student reported the theft of a laptop computer.

March 4

A student reported the theft of a wallet.

March 3

A student reported the theft of a backpack.

March 2

A student reported the theft of a cell phone.

March 1

A student reported the theft of a laptop computer.
Joseph Allen receives Fulbright award to study in Taiwan

Joseph Allen, Ph.D., associate professor of Chinese languages and literatures in Arts and Sciences, has been awarded a Senior Scholar Fulbright grant to conduct research in Taiwan next academic year.

"My research project is a cultural study of the early modern Chinese cityscape," Allen said. "I will be looking at architectural representations themselves as a reflection of economic, ethnic and cultural change during the 17th and 18th centuries in Taiwan."

Allen will leave for Taiwan in September and spend about nine months working on the project. His work will be affiliated with the National Taiwan Normal University and the private primary research institution on the island, the Taiwan University Institute of Languages and Social Sciences, which is affiliated with the University of Pennsylvania.

"The focus of my research project is to study the representation of Taiwanese cities in the 17th and 18th centuries created by four full-bright scholars working in Taiwan next year," Allen said. "In addition, I will be working with Professor Tao-Wei S. Wu, who taught Asian studies here before becoming a professor at Harvard, and I will use the opportunity to learn more about the history of Chinese culture and ethnic change in Taiwan."

Mellon Foundation offers $40,000 grant for literature and seminar

Washington University has received a grant from the Andrew W. Mellon Foundation in support of an interdisciplinary seminar for Arts and Sciences students in history, languages and cultures. The $40,000 grant is the second grant from the Mellon Foundation for a dissertation seminar.

The seminar will be directed by Prof. Edward Wilson, Ph.D., professor of English and co-chair of the joint program in literature and history in Arts and Sciences. In the summer of 1998, Prof. Edward Wilson directed the University's first Mellon seminar titled "Politics and Literary Culture in the Early Modern Period." Joining that seminar were dissertation students in English, history, language and culture, comparative literature, philosophy and art history.

The theme for the 1998 Mellon seminar was "Material Culture and Intellec- tual Production in the Early Modern Period." This seminar will explore some of the systems in which material culture is embedded and how aesthetic, interpretation and distribution — the theater, artistic performance and cultural production and distribution — in order to consider the aesthetic and social practices shaped by this and political and cultural modes. Before the seminar, students will be asked to address the interplay between literature, political and social texts and the circumstances of their reception and distribution.

"We are pleased to be able to offer this funding to support this excellent opportunity for interdisciplinary work," Prof. Edward Wilson said. "The seminar builds on our long-standing experience in literature and history and while also providing enhanced opportunities for both students and faculty to explore points of contact between their disciplines."

The grant is part of a program that the Mellon Foundation has initiated at a select group of universities to address interdisci- plinary and professional issues that frequently arise at the dissertation stage. The program's goals are to help students affect eventually graduate students' professional development and increase the breadth of their professional exposure.

The Mellon Foundation, which has supported the Program in the Humanities since 1992, awarded the grants through a competitive, peer-reviewed process to the University of California-Berkeley, the University of Chicago, Johns Hopkins University, the University of Pennsylvania, the University of Wisconsin-Madison and the University of Wisconsin-Milwaukee.

Fullbright applications due Aug. 1

The window of opportunity for lecturing or advanced research is available for 30 countries in a 1998-1999 Fulbright scholar is open to all AIA.

That is the date the application deadline for Fulbright scholarship programs for foreign study or research will be accepted at the University of Missouri-Columbia. The program was established in 1946 under legislation introduced by U.S. Senator Hubert Humphrey of Minnesota and the late William Fulbright of Arkansas.

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With the umbrella of the University, Schael Sports Imprints sells apparel and gift items, including shorts, T-shirts, polo shirts, neckties and imprinted apparel and gift items. Beyond these products, Schael also contributes to support future projects, Schael noted. "We're excited about this first step," Schael said, "and we're committed to making it a positive, fun and useful service."