Sechvy to lead summer Globe Theatre program

Henry Schey, Ph.D., chair of the Performing Arts Department, has been selected to head a new summer Globe Theatre program at the Globe Theatre in London, England.

"Shakespeare's Globe," an intensive four-week acting and directing program focusing on the works of William Shakespeare, is open to college students nationwide.

The London-based program, which is presented by Washington University and the International Shakespeare Globe Centre in London, will run from July 5-30. The International Shakespeare Globe Centre was established by American actor and film director Sam Wanamaker in 1970 to reconstruct Shakespeare's Globe Theatre, which was destroyed in a fire several hundred years earlier.

"Constructing the Globe Theatre has been Sam Wanamaker's dream for more than 20 years, and it is really an honor to have been selected by him and the Globe organization to head their summer school," says Schey. "The Globe Theatre is something the whole world will be aware of in less than two years, when the theatre is completed."

Schey notes that the Globe Theatre is not just a replica to be studied or looked at, but to be used. There will be no artificial lighting, fly space or other technical facilities used for this program. "For the companies performing there will be no artificial lighting, fly space or other technical facilities used for this program."

Conference explores non-violent methods of settling disputes

The renunciation of military force and alternative non-violent methods for settling national and international disputes will be examined during a conference that begins at 9 a.m. Tuesday and Wednesday, Feb. 16-17, in the Women's Building Lounge. The conference, titled "Quietism and Pacifism in the Western Monotheisms," is free and open to the public.

Peter Steinbeis, senior religion correspondent for The New York Times, will keynote the conference at 11 a.m. Feb. 17 in Grahame Chapel. His lecture, "When There Is No Peace: Being Honest in Pacifist Thinking," is part of the Assembly Series.

The conference builds upon a series of four lectures that were presented by Washington in spring and fall 1992. During the lectures, Michael Broyde, associate professor of biology, and German exchange students Christine Bockel, left, and Claudia Obermaier measure a transgenic (genetically manipulated) tobacco plant that is more than two feet shorter, stronger and more tolerant to drought than the typical or "wild" type tobacco plant to the left.

David Ho, Ph.D., associate professor of biology, and German exchange students Christine Bockel, left, and Claudia Obermaier measure a transgenic (genetically manipulated) tobacco plant that is more than two feet shorter, stronger and more tolerant to drought than the typical or "wild" type tobacco plant to the left.

Genetically engineered plants

Biologist finds gene that controls height, strength, drought resistance

A plant biologist at Washington University has found a single gene in the barley plant that controls several traits — height, maturity, drought resistance and strength — in transgenic (genetically manipulated) plants.

David Ho, Ph.D., Washington University associate professor of biology, discovered the gene, which is activated during a stress response in plants, that would stay a certain height, withstand stress; lawn grasses that would need less mowing and watering; ornamental plants, such as petunias and geraniums, that would flower earlier, and through an increased vascular system, be bushier and stronger; and dwarf fruit trees that would flower earlier and withstand drought. Everyone from the homeowner to the mega-farmer to the horticulturist would benefit.

"Resistance to environmental stresses such as drought has always been considered multigenic," says Ho. "But we have shown that this one gene, and nothing else, has been able to elicit a whole array of standard stress responses in tobacco plants. The gene apparently triggers a very complex sequence of events very early in plant development."

To protect his discovery, Ho has filed a patent with the U.S. Patent and Trademark Office in Washington, D.C. He presented his research at the annual meeting of the Midwestern Plant Biotechnology Consortium on Dec. 3, 1992, in West Lafayette, Ind.

Surviving stress

In 1987, a former graduate student in Ho's laboratory, Himii Hong, Ph.D., now at the University of California, Riverside, isolated the barley gene, one of a large number of plant genes called late embryogenesis abundant (LEA) genes. Ho's laboratory has spent much of the past five years characterizing the gene and its proteins, and he has published a series of papers on the gene. Plant molecular scientists throughout the 1980s have been interested in LEA genes because they are expressed near the end of a plant's development, a time when the plant must protect itself to survive.

"Plant stress is different from animal stress because plants are not mobile," Ho explains. "Thus, because plants cannot remove themselves from stressful situations, they must adjust themselves to survive. Most of the yield reduction in agriculture is due to plant stress, with an impact in the billions of dollars annually. The function
Abdominal obesity linked to adult-onset diabetes

Abdominal obesity appears to be a stronger factor than age in the development of adult-onset diabetes in older adults, according to researchers at the School of Medicine. Researchers selected men and women aged 60 to 70 to find out whether aging or belly fat is the bigger factor in the decline that occurs in the body's ability to regulate the blood sugar, or glucose, as level people grow older. The researchers found that blood sugar is known as glucose intolerance. Glucose intolerance develops when the body becomes resistant to the actions of insulin, the hormone responsible for lowering blood sugar. Levels of insulin, for example, remain high for longer periods. To offset the high sugar, the body oftentimes compensates by secreting more insulin. As a result, Kohrt says, fasting blood sugar levels tend to show more central adiposity (fat), says Wendy M. Kohrt, Ph.D., a research scientist and professor of physiology. "We are studying the same thing but in men and women." Previous studies in middle-aged subjects have established that abdominal fat is related to insulin resistance and glucose intolerance. But the researchers say that some of their findings suggest that the influence of insulin resistance among older adults is associated with abdominal obesity. What frequently occurs with aging, Kohrt says, is that fasting blood sugar level gradually goes up. Moreover, any meal containing carbohydrates is eaten, blood sugar level will increase to a higher level, and then it is difficult to return to a normal level. With advancing age, Kohrt says, the insulin produced isn't as effective in controlling blood sugar levels. "The body maintains a high for longer periods. To offset the high sugar, the body oftentimes compensates by secreting more insulin. As a result, Kohrt says, fasting blood sugar levels tend to show more central adiposity. It does suggest, however, that many of the changes that have been attributed to aging are the result of changes in regional adiposity, which is probably secondary to the decline in physical activity that frequently accompanies aging," says Kohrt. "The connection between abdominal fat and the development of diabetes in older adults." Blood glucose levels are held in check with insulin, the hormone secreted by the body to clear glucose from the blood into muscles, where it is converted into energy. With advancing age, Kohrt says, the insulin produced isn't as effective in controlling blood sugar levels. "The body maintains a high for longer periods. To offset the high sugar, the body oftentimes compensates by secreting more insulin. As a result, Kohrt says, fasting blood sugar levels tend to show more central adiposity. It does suggest, however, that many of the changes that have been attributed to aging are the result of changes in regional adiposity, which is probably secondary to the decline in physical activity that frequently accompanies aging," says Kohrt. "The

"Our study cannot rule out the possibility that there is a decline in glucose tolerance associated with the aging process. It does suggest, however, that many of the changes that have been attributed to aging are the result of changes in regional adiposity, which is probably secondary to the decline in physical activity that frequently accompanies aging," says Kohrt. "The

Wendy M. Kohrt, Ph.D., measures Benjamin Jenkins, 70. Kohrt is studying the connection between abdominal fat and the development of diabetes in older adults.

...good news is that it's something that's very amenable to change through modest dieting and exercise..." —Kellia Carton

Students honor outstanding faculty

The School of Medicine's class of 1994 honored 14 students on March 24 with the Distinguished Service Teaching Award for their outstanding teaching for the 1993-94 academic year. Established in 1990 as an expression of appreciation, the award recognizes professors who devote time and energy to the preparation and delivery of excellent lectures. Faculty members who teach three or more hours are eligible for the award. Winners were selected by majority vote. Those chosen to receive the award are:

First-year curriculum: Dan Atkinson, M.D., professor and chairman of the Department of Internal Medicine and professor of molecular microbiology; Jacques Le Bacconier, M.D., Ph.D., associate professor of pathology and anatomy and neurobiology; Linda J. Bock, M.D., Ph.D., associate professor of biochemistry and molecular biology; and Robert A. M. Callahan, M.D., professor of medicine and of genetics and molecular physiology. Second-year curriculum: John P. Atkinson, M.D., professor and chairman of the Department of Internal Medicine and professor of molecular microbiology; George T. Kohutshak, M.D., professor of medicine and of genetics and molecular physiology; Elizabeth L. McCarty, M.D., Ph.D., associate professor of molecular and cellular physiology; and Charles W. Mercer, Ph.D., associate professor of cell biology and physiology. Third-year curriculum: Matthew G. Schwartz, M.D., associate professor of microbiology and molecular physiology; and Thomas A. Wurster, M.D., professor of anatomy and neurobiology.

Executive Director, University Communications: Judith Jasper Executive Editor: Sarah Kallenberg Editor: Deborah Parker, 953-5235, Box 1707 Assistant Editor: Carolyn Sanford, 953-5235, Box 1707

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Photographers: Joe Angelines, Tom Hofer, David Kilper and Holli Wermel Production: Geni Harrison

Address changes and corrections: Postmaster and non-employees: Send address changes to Record, Washington University, Campus Box 1870, One Brookings Drive, St. Louis, Mo. 63110. Second-class postage paid at St. Louis, Mo.

Wendy M. Kohrt, Ph.D., measures Benjamin Jenkins, 70. Kohrt is studying the connection between abdominal fat and the development of diabetes in older adults.
Baker blends library tradition and technology

S

hiley K. Baker, dean of the Washington Univer-
sity Libraries, is a librarian who sees her craft to be a librar-
ian while taking a bath in a hotel room in Paris. It's
"It was in the bathtub that I thought, 'I really
want to be a librarian. That's what I'd like to do,'" says
Baker, who was a Peace Corps family physician in
Bihar, India, from 1967-69. "I had a fever so I was soaking
in the bathtub — a big luxury. We took showers out of
buckets in our village. So I remember the bathtub clearly."

"You can't turn down a good opportunity even
when both she and her husband were recruited
applicants.

"My mother's education ended in the
ninth grade when her mother died, leaving six
other children to be cared for. Nonetheless, as
we shelled beans or canned tomatoes, my
mother would tell us stories about her school
times, books she loved and how fast she was
reading to know something about everything.

Baker therefore is working locally,
regionally and nationally to strengthen
cooperative sharing arrangements with
other libraries. Such arrangements allow
the libraries to borrow materials from
other libraries and guarantees the
University's willingness to lend in return.

Baker blends library tradition and
technology to increase libraries' support of higher education.

"The publishers know how to make money
on print, but they don't know how to make
money electronically. Until they figure that out,
that's not going to become the way the world
goes," says the dean.

"Libraries grow inexorably and the Clayton facility
will free up much-needed space for studying and working
or electronic mail, that materials be sent from the library
preserving the tradition of the printed page. "Our goals are
enhance library services, she is equally committed to

"For my being a librarian, not wanting to
"I've always been hired into
changes in the ways students and faculty

While print continues in importance, the volume of

Indeed, although the dean knows how to use technol-
gy, she has guarded the width of the printed page and the
digitized page," says Jay K. Lucker, director of
the Library's MedShare, a number of University
libraries' national council. Lucker says Baker's work
at M&T and at Washington has earned her a national repu-
tation as an innovator in library technology to
increase libraries' support of higher education.

"Libraries grow inexorably and the Clayton facility
will free up much-needed space for studying and working
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"We have always been hired into
jobs that are incredibly challenging — where there's
a lot of work to be done. I really like a challenge. I like
making things happen.

Baker blends library tradition and technology

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Carolyn Sanford
Films

Thursday, Feb. 11

Friday, Feb. 12
7 and 9:30 p.m. Filmboard Feature Series presents "The Canterbury Tales." Room 219 South Ridgley Hall.

9:15 a.m. Pediatric Grand Rounds, "Infant Eating Disorders and Feeding Physiology." The Children's Hospital, St. Louis. Room 100 Brown Hall. Cost: $3.


10 a.m. Dept. of Electrical Engineering colloquium series, "Sack Algorithm Through the Ages: From Analog to Digital With N-conflicts." B.S. Tseng, prof. and head of Institute for Problems of Information Transmission, Academy of Sciences, Moscow, Russia. Room 305 Bryan Hall.


10 a.m. Dept. of Chemistry seminar, "Para- magnetic Chromium Alkyl Structure and Reactivity." Klaus Theopold, prof., Dept. of Chemistry, U. of Delaware. Room 311 McMullen Laboratory (Coffee: 3:30 p.m.)

11 a.m. Dept. of Anatomy and Neurobiology seminar, "Proto-oncogenes, Tumor Suppressor Genes and the Control of Hematopoiesis." Alan Bernstein, head, Division of Molecular and Developmental Biology, Mt. Sinai Hospital, Toronto. Room 8928 McDonald Medical Sciences Bldg.


12:30 p.m. "Fifteenth Annual High School Art Competition." "Artful Model's Disease." Junior, Yale U. Room 149 McMillan Hall. (Coffee: 3:30 p.m.)

Monday, Feb. 15
9:15 a.m. Dept. of Anatomy and Neurobiology seminar, "Structure and Function of the Mammalian Inner Ear." Barbara Bohne, prof., Dept. of Otolaryngology, WU School of Medicine. Earn ½ pt. toward graduation. McDonald Medical Sciences Bldg.

11 a.m. Dept. of Molecular Genetics Program thesis defense, "Molecular and Genetic Analysis of Neuropeptide Phenotypes." Kevin A. Roth, grad. student, Dept. of Molecular and Developmental Biology. Room 3161 Natural Sciences Bldg.

11 a.m. Dept. of Computer Science colloquium, "Towards Unchastain Benchmarks." Jim Tyrer, grad. of Computer Science, Princeton U. Room 509C Bryan Hall.

11 a.m. Dept. of Cell Biology and Physiology seminar, "New Aspects of Glucone Generation: Local Control and Higher Order DNA Structures." Timothy J. Ley, asst. prof., dept. of medicine and genetics, WU School of Medicine. Room 423 McDonnell Medical Sciences Bldg.

11 a.m. Dept. of Anatomy and Neurobiology seminar, "Hyperbolic Dynamics and Rigidity of Invariant Geometric Structures." Renate Ferus, prof., Calif. Institute of Technology. Room 199 Capps Bldg. (Tea: 3 p.m., Room 200.)

12:30 p.m. Dept. of Anatomy and Neurobiology seminar, "Boundary Values and Cowen-Hartman Marks." Jin-Yi Cai, WU School of Medicine. Erlanger Aud., WU School of Medicine.

11 a.m. Dept. of Cell Biology and Physiology seminar, "New Aspects of Glucone Generation: Local Control and Higher Order DNA Structures." Timothy J. Ley, asst. prof., dept. of medicine and genetics, WU School of Medicine. Room 423 McDonnell Medical Sciences Bldg.

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Exhibitions

"Fifteenth Annual High School Art Compe- tion." Through Feb. 24. Bobby Gallery, Bisly Hall. Hours: 10 a.m.--4 p.m. weekdays; 1-5 p.m. weekends (closed Feb. 15). For more info., call 935-6997.

Bruce Nauman: Light Works." Through March 21. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.--5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4523.

"Works of Graphic Satire." Through Feb. 19. Olin Library, Special Collections, Level 5. Hours: 8:30 a.m.--5 p.m. weekdays. For more info., call 935-5495.

Washington University Art Collections — 19th- and 20th-century European and American Artists." Through May. Gallery of Art, lower gallery, Steinberg Hall. Hours: 10 a.m.--5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4523.

"Gods and Goddesses" coin exhibit. Thru March 3. Gallery of Art, lower gallery, Steinberg Hall. Hours: 10 a.m.--5 p.m. weekdays; 1-5 p.m. weekends. For more info., call 935-4523.
Men's and Women's Swimming/Diving

Last Week: Idle

This week: University Athletics Association Champions, Washington University Men and Women's Swimming/Diving Team, Washington University Athletics Department.

Women's Basketball


This Week: New York University, 6 p.m., Friday, 12, Field House; Emory University, 1 p.m., Sunday, 14, Field House.

Current Record: 17-3, 7-2 in UAA

For the second weekend in a row, the Bears split a pair of games in the Metro Atlantic Athletic Conference. Washington dropped a 93-72 decision to Carnegie Mellon, but battled the No. 1 team in the nation on Saturday, when the finals will be held at Home. The Bears ended the season on a high note, finishing second nationally last year. On the women's side, Emory finished fourth nationally a year ago, John Hopkins was 12th, and New York University was 22nd. From Thursday through Saturday, preliminary trials will begin at 11 a.m., and finals will start at 6:30 p.m. except on Sunday, when the finals will be held at 4 p.m.

Suzi Landolfi combines humor, compassion in safe-sex message

S ex educator Suzi Landolfi will lecture at 4 p.m. on Friday, Feb. 18, in Graham Chapel. Her presentation, "The Lunatic, the Lover, and the Poet," is part of the Assembly Series and is free and open to the public.

Landolfi combines humor, compassion and encouragement to educate about the HIV virus, AIDS and other sexually transmitted diseases and to encourage safer sex practices.

Besides addressing the use of condoms, her presentation includes the discussion of safe sex including the "Jenny Jones Show); Lifetime Television's "TV's Atitudes;" the NBC talk show "Rap About AIDS," and the Group W Television special "Parents' Survival Kit.

Landolfi graduated from Middlebury College in 1982. After a career in regional theater and television productions in the Boston area, she started her own production business that earned her national awards as a producer and spokesperson in 1991 for the First National Children with HIV/AIDS Day. She has appeared as a guest on several television programs, including the "Today" show, "Good Morning America" and "The Jenny Jones Show." She is the author of the national bestselling book "AIDS in Pink and Rhino Skin." She has earned her national awards as a producer and spokesperson in 1991 for the First National Children with HIV/AIDS Day and the Harry Chapin Humanitarian Award, also in 1992.

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Author Richard Wright's life work in 1950s topic of symposium

Richard Wright's life and work in the 1950s will be the topic of a symposium to be held from 1 to 4 p.m. Feb. 21 in the Performing Arts Department's Building Lounge. The symposium, titled "Richard Wright and the 1950s," is free and open to the public.

In connection with the symposium, the movie "Native Son," based on Wright's 1940 novel of the same name and starring Oreth Winfrey, will be shown at 7 p.m. Tuesday, Feb. 16, in Room 149 McMillan Hall. Admission is free.

Born in Mississippi in 1908, Wright, whose father was a sharecropper, was "the first African-American novelist to enjoy the national and international recognition usually reserved for white writers," says Lynn Weiss, Ph.D., professor of English and African and Afro-American studies at Washington University. Wright died in Paris in 1960. His novel "Native Son" and his autobiography "Black Boy" (1945) are landmarks in African-American literature and in American literary history, added Weiss, who is co-organizer of the symposium with Gerald Early, Ph.D., chair of the African and Afro-American Studies Program and professor of English.

Among the symposium panelists will be Julianne Wright, Richard Wright's daughter, who will discuss the final decade of her father's life. A resident of Paris, France, she is the only daughter of Wright's two marriages.

In addition, Ollie Harrington, one of the first African-Americans to acquire an animated cartoon character, will share his perspective on Wright's final years.

Harrington created the Beanie cartoon character in 1933. He moved from Harlem to Paris in 1951 and became Wright's closest friends. Since 1961, Harrington has lived in Berlin, Germany, with his wife, Amritj Singh, professor of English at Rheinische Friedrich-Wilhelms-Universität, Bonn.

The symposium is sponsored by the African and Afro-American Studies Program and the American Culture Studies Institute at Washington University. For more information, call 935-5600.

Finding could mean savings for growers

and structure of plants will be different during stress, so we've been interested in looking for genes being turned on during or off during stress.

Each year in the United States alone, nearly 40 percent of crop loss is due to drought. The highest amount of insurance payment in a single year for total crop losses has been $385 billion, and that's a drought in a severe year could cost up to $174 billion.

"Drought is in far the leading stress in agriculture worldwide," says David Baecker, senior, and hiscob, Ph.D., Professor of Marineobiology at the University of Delaware and a member of the National Academy of Sciences. "It's hard to find an exciting stress in agriculture worldwide." This is one of the rare cases where a specific protein has been found that can help protect plants against dehydration. The process generates a repair gene. The result is that some crops will be approximately the same height and width, but the transgenic plants showed only mild wilting, evidence that the LEA gene was protecting the plants.

He also observed the different plants at the same age and noted that, in parallel development, the controls have more vegetation, but the transgenic plants showed only mild wilting, evidence that the LEA gene was protecting the plants.

"The surprise is once we put the barley on the line, we got a transgenic that a plant was a little less than four feet tall compared with the control which was almost six feet tall," says Ho. "Also, the transgenic plant was flowering already, and its leaves were smaller than the control, although the plant was approximately the same height. They watered the plants for many days, then stopped watering. After several weeks they found that the transgenic plants had a much more highly developed vascular system, which was also more disease-resistant than the control plants with their typically soft leaves.

Key to success

Ho used a standard genetic engineering technique called "agrobacterium-mediated process," was pioneered in the early 1980s by Mary Dell Chilton, Ph.D., a former Washington University professor of biology. When inserted into the tobacco plants, a part of the bacterial DNA serves as a vector carrying the LEA gene into the plant tissue. The key to Ho's success was manipulation of a piece of DNA called the promoter. A regulator of the LEA gene, the promoter is not expressed unless it indicates in which and where the coding region of the gene should be expressed. Ho used a promoter that continually transcribes the LEA gene, allowing the LEA protein to be produced during stress, such as water deprivation, "We've shown that the LEA gene is indeed expressed in various stress conditions," added Ho.

"We have a tall order in front of us, checking out all the possibilities with different plants and finding ways to engineer the control of the LEA gene, which is very exciting. Think what a lodging-resistant, disease-resistant barberry or lettuce or a transgenic tobacco grows who will be able to feed the world," said Ho.

Several genetic techniques in modern genetics, but there is nothing available that will allow scientists to alter dozens of plant genes at the same time. It would be terribly time-consuming, laborious and costing as well. We've shown that using these different traits is quite doable with just one gene."

-Tony Fitzpatrick
For The Record

MBA students to attend conference in Germany

Therese J. Dent named assistant dean
for field education at social work school

Robert G. Kranz, Ph.D., assistant professor of biology, examines an aerobic chamber used to grow the Rhodobacter capsulatus bacteria. Strains of the bacteria produce high amounts of polyester compounds, which could be used as biodegradable components of disposable cartons.

Robert G. Kranz, Ph.D., assistant professor of biology, examines an aerobic chamber used to grow the Rhodobacter capsulatus bacteria. Strains of the bacteria produce high amounts of polyester compounds, which could be used as biodegradable components of disposable cartons.
Students to meet leading British actors — from page 1

forced to approximate the means Shakespeare used in his own productions some 400 years ago.

The course will offer classes in acting, directing, voice, movement, scene study and textual interpretation. Students to perform six public performances of scenes prepared by the students during the course will be presented on the replica Globe Theatre stage. Students will attend six productions at the Royal Shakespeare Company in Stratford-Upon-Avon and also six productions at the West End and fringe theatres in London. A special three-day excursion to Stratford-Upon-Avon to see two performances by the Royal Shakespeare Company (RSC) also is included in the program.

In addition, master classes, workshops and seminars will be given by Britain's leading theatre professionals, including actors Jane Lapidoth and Julian Glover, as well as Andrew Wade-Had, head of voice with the RSC. Arnie Marie Costa, coordinator of acting and directing in Washington University's Performing Arts Department, will lead her expertise by teaching in the program.

While the workshop will concentrate on Shakespeare, students also will be able to explore the contemporary British theatre by attending performances and other events during the attending plays.

The workshop will receive six units of Washington University credit for the four-week course, which is also transferable elsewhere. Students can choose among shared and single accommodations. The total cost for six week is $2,700. This price does not in- clude airfare.

For more information, call the Performing Arts Department at 935-8585.