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Over 2,300 to graduate during 132nd Commencement ceremony

Washington University will bestow seven honorary degrees during its 132nd Commencement May 14. The honorary degree recipients range from a Nobel Prize-winning scientist to one of Hollywood's top comedy writers/producers/directors.

Peter H. Raven, director of the Missouri Botanical Garden and the University's Engelmann Professor of Botany, will deliver the Commencement address following opening remarks by Leo M. Liberman, the outgoing chairman of the University's Board of Trustees. Raven's talk is titled "Attitudes and Alliances: Shared Dependence and Responsibilities for the Environment." During the ceremony, Raven will receive an honorary doctor of science (see story below).

Brian W. Buckles, senior class president, will give the student Commencement address. Chancellor William H. Danforth will then confer undergraduate and graduate degrees, with the assistance of Provost Edward S. Macias, Ph.D.

The other honorary degree recipients are Russell L. Ackoff, a world leader in the development of Operations research, doctor of science; Stanley Cohen, a 1986 Nobel laureate in medicine, doctor of science; and Peter H. Raven, director of the Missouri Botanical Garden and Washington University's Engelmann Professor of Botany, doctor of science.

The University is highly fortunate to have an individual of Van Cleve's stature to head its board. "He has been a gifted adviser, leader and friend of the University. I can't think of anyone better to succeed Lee Liberman. We will be forever grateful to Lee for his leadership, dedication and service to our institution."

Re-elected by the trustees was Clarence C. Barbourdo, who continues in his role as vice chairman. Newly named as a vice chairman was William H. Webster, a past director of both the FBI and of Central Intelligence (CIA), and who is now a partner in the Washington office of the New York-based law firm of Milbank, Tweed, Hadley & McCloy.

As chairman of the firm of Bryan Cave, Van Cleve heads a 370-lawyer firm based in St. Louis, with offices in Washington, New York, Kansas City, Phoenix, Los Angeles, Santa Monica, Orange County, London, Riyadh and Frankfurt. His practice areas include corporate law, banking law and estate planning. He previously served as vice chairman of the Washington Board of Trustees.

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School of Medicine researchers say hundreds of infant deaths might be avoided each year if reliable guidelines were developed to identify infant bedding material that could be dangerous due to its softness.

James S. Kemp, M.D., and Bradley T. Thach, M.D., say more reliable quantitative ratings are needed for infant bedding products. They reported their findings to the annual meeting of the Society for Pediatric Research, the American Pediatric Society and the Ambulatory Pediatric Association.

Thach, professor of pediatrics, and Kemp, assistant professor of pediatrics, have been studying the problem of re-breathing, a form of accidental infant suffocation. Their past work has helped lead to the banning of polyester-filled cushions by the Consumer Product Safety Commission and to a recommendation from the American Academy of Pediatrics that infants sleep on their backs or their sides. Kemp and Thach found that face-down infants can breathe in air that becomes trapped within the bedding around the baby's face when sleeping on polyester-filled cushions and in soft bedding material. This re-breathing of carbon dioxide can lead to accidental suffocation.

In this new study, Kemp and Thach looked at three types of bedding: the already-banned, polyester-filled cushions; bedding in which infants were found dead; and "standard bedding," that is, coil spring mattresses, foam mattresses and nursery bassinet mattresses. The three groups of bedding were studied for softness, ability to limit carbon dioxide dispersal, ability to limit air flow in and out and malleability of the bedding material.

Malleability of bedding is a key to the dispersal of air that is potentially harmful to sleeping infants, says Kemp. "If a baby puts its head down on an item of bedding, and the mattress springs up, it's less likely that carbon dioxide will remain trapped," he explains. "If the bed retains a little 'sink hole' beneath the baby's face, it will be more likely that bad air will be trapped."

Kemp adds, "We assume that firmer bedding material is safer, but we don't have hard and fast evidence. What we have found is that standard, firm mattresses, with only sheets over them, were less soft, and they did not collect around our mechanical model's face as much as in so-called "safes" and cushions or in the bedding we tested that had belonged to babies that died from re-breathing."

The researchers took their measurements using a mechanical head from a resuscitation doll placed nose-down on the bedding. The goal of their work, says Thach, is to develop a quantitative measurement of bedding safety. In the way that temperature can be measured with a thermometer, Thach says, "A yankstick" is needed for safety of infant bedding. "There is a British standard, but that standard does not really mean the type of softness that we feel is most likely to result in re-breathing and asphyxiation. We hope we can develop a measurement of softness that we can apply to all bedding and then figure out what degree of softness has a hand to the sleeping infant," Thach says.

Medical safety is not the only measurement that needs to be taken, Kemp points out. "Most mattresses are made now are already laden with firm stuff," he says. The problem is that people tend to put other things on the mattress, like comforters and blankets. We believe those items also contribute to softness and other safety considerations and parents need to be careful to keep all soft things away from the baby's face. "Several studies have indicated that approximately one-fourth of all deaths diagnosed as Sudden Infant Death Syndrome (SIDS) deaths could be the result of accidental suffocation due to re-breathing. "There are two pieces to the puzzle," says Thach. "The soft bedding can trap carbon dioxide, but the baby must also be sleeping in a prone position. We are not yet sure that hard, firm bedding will completely eliminate the risk of re-breathing, but we know that a baby sleeping on its back or side is at less of a risk that one who sleeps on its stomach...."
Jean Gaines coordinates C-Day operations

very worry that this year's spring Commence-
ment might get ruined out?

Jean Gaines takes care of
that back on Nov. 5, when she reserved
the St. Louis Arena for May 14 just in case wet
weather washed away an outdoor
venue. But she was right.

As the veritable producer of the University's biggest
event, Gaines knows a thing or two about
making last-minute changes. Thanks to her,
student names in the Commencement program are spelled
correctly, ambiances are standing by in the
event someone faints and the Commence-
ment speaker has a glass of water handy.

"It's a perfectionist," says Gaines. "That
doesn't always make me the easiest person to
get along with.

Gaines has the right temperament for
executing C-Day, and she also has experience —
a lot of experience. She's been organizing
commencements since 1960.

Gaines handles other behind-the-scenes jobs as associate registrar, assigning profes-
sors to classrooms and helping adjudicate
parking-ticket appeals. Perhaps no other
person besides the chancellor issues more
memos — or knows the University more
intimately.

"Jean Gaines is an inacculable treasure,"
says her boss, Registrar Stuart Vaak.

For Gaines, the academic year is a slow
countdown to that spring day when young men
and women throw their tasseled caps to
the air and take their learning into the outside
world. The planning begins in the fall with meetings of the University's Commencement
Committee, for which Gaines serves as executive secretary. By fall, she's already
writing letters to people chosen to receive
honorary degrees and the one dignitary who
will head the Commencement address, inquiring
about their hotel preferences and travel plans.

Thousands of parents receive hotel
information so they can book rooms in ad-
cance. Come January, and the pace quickens,
says Gaines. "People in the office say, 'Oh, oh, it's
Commencement time — Jean's getting ner-
vous.'"

Nervous, maybe, but not panicky. After all,
Gaines can find guidance in what she calls her
Commencement Bible — two massive
ring binders packed with every conceivable
committee and record pertaining to the
Commencement. The binders, organized by month,
create a paper trail that keeps Gaines on track
now and in future commencement prepara-
tions. A Feb. 3 memo from Gaines, for ex-
ample, asks all directors to submit memos of
students receiving any prizes, awards or honors on April 1. There are dozens of memos like this, personalized with two elegant
initials printed by a two-inch flourish.

Chore follows chore, each with its own deadline: draft-
ing, proofreading and printing Commencement programs,
collecting the names of spring graduates; ordering diplo-
ma covers, coordinating receptions for individual University
students and the registrar's office — but reflects the
entire campus — students, faculty, administrators — so
students may or may not be less political these days, but
Gaines says she's had opportunities to work for other
employers, but that the grass has always looked greener on the
Hilltop.

"I'm a perfectionist," says Gaines. "That
doesn't always make me the easiest person to
get along with."

Gaines is ready to pull out signs instructing Commence-
ment-goers to head toward the St. Louis Arena.

"It's my time to collapse," she says. She immediately gets
back into the flow upon her return, however — another
batch of students are set to graduate in August, albeit with
less fanfare.

"One person shouldn't take the credit. It's a team
effort. If we operate as a family, there's not much we
can't do."

with an eight-person entourage, wanted his hotel room
handles everything with great graciousness and sensitivity."

"The care and feeding of Commencement speakers and
honorary degree recipients is another task that falls to the
defeatable Gaines.Watching the parade of the wise and
famous — Duke Ellington, Gwendolyn Brooks, Bob Hope,
Oscar Arias Sanchez, to name a few — passing through the
Quadrangle thrills her like anyone else. However, catering
to their needs is hard work. Gaines matches each-out-of-town
honorees with St. Louisians who can pick them up at the
airport if need be and escort them to their hotels. Some
honorees make special requests. One such VIP, who came
with an eight-person entourage, wanted his hotel room
reserved early if they discover their rooms are not up

"Ninety-percent of it is nerves," she says. "And oh dear,
what time she should put a turkey in the oven for her
parents about what they should wear and when they can
plan their child's graduation dinner," says Gaines, smiling.

What does Gaines do on C-Day itself? Gaines rolls her
eyes and groans.

"I'm usually up at 6 a.m., looking out the window and
yelling, 'Oh dear, it's not going to rain, is it?'" Gaines
already has a pretty good idea about the weather based
on forecasts, but she and other Commencement bongos will
continue to watch the skies for clouds. In case of rain,
Gaines is ready to pull out signs instructing Commence-
ment-goers to head toward the St. Louis Arena.

She usually skips breakfast and arrives at the University
about 7 a.m. to meet with Commencement grand marshal
Burton Wheeler and University administrators. In the hour
and a half before the Mighty Mississippi Concert Band
of St. Louis begins playing processional music, Gaines
is

Jean Gaines coordinates C-Day operations

"At the end I feel elated, being a part of it. When Com-
memoration is successful, you feel all three hours you put
in paid off." — Robert Lowers
Seven to receive 1993 honorary degrees from University during business. "I owe this University a debt of gratitude," Lopata once said. "It's a debt you never get over." His generosity and active concern that students today receive the same kind of education he had made a difference in virtually every area of the University.

Elected chairman of the University's Alumni Board of Governors in 1975, Lopata has served as an outstanding trustee of the University since 1979. He and his wife, Lucy, rank among the University's most generous benefactors. The Lopatas have provided scholarships for students and support for faculty throughout the University. Their significant contributions include establishing the Lopata Professorship in the School of Engineering and the Lopata scholarships in Arts and Sciences, Engineering and Fine Arts; as well as construction of engineering's Lopata Hall and the Lopata Courtyard in the John M. Olin School of Business. The University's annual fall invitational basketball tournament, the Lopata Classic, commemorates the couple's active support of athletics and student activities.

Lopata received his bachelor's degree in chemical engineering from the University in 1935 and went on to do graduate work at Columbia University in New York. He worked as an engineer and then as a sales representative for Durcon Co., a manufacturer of corrosion-resistant equipment. As a sideline, in 1944 he set up a laboratory in the basement of his aunt's house — his was too small — to begin manufacture of his own chemical coating products. This led to the formation of Carboline Co. in 1946. During the next decade, Carboline built a reputation for "solving (corrosion) problems that other companies can't solve." Lopata developed a patented primer that made it possible to put a vinyl coating on steel surfaces without first sandblasting the steel. By 1979, when Carboline was sold to Sun Oil, the corporation had developed either joint ventures or licensees in Italy, France, the United Kingdom, Norway, Sweden, Spain, Canada, Mexico, Venezuela, Brazil, Colombia, Argentina, Japan, China, Singapore, Australia and New Zealand. When Lopata ended his relationship with Carboline in 1986, it was the largest corrosion-resistant coating company in the world.

His many awards from the University include the Founders Day Distinguished Alumni Award, Engineering Alumni Achievement Award, William Greenleaf Eliot Society "Search and the Alliance for Education" Award, and the National Association of Chemical Engineers also honored Lopata with its prestigious Frank Newman Spender award.
Commencement ceremony – from page 1

of the nation's foremost family publishing companies. Pulitzer joined his father, Joseph Pulitzer Jr., chairman of the Pulitzer
Committee for Economic Development. She has contributed her expertise as a board member of the National Endowment for the Humanities, the Council on Economic Sources, and the Committee for Economic Development. She has also served as a special consultant for the United States Agency for International Development (USID) and consultant services to industrialists in Cameroon and Liberia, Africa. Mobley has also been involved as a consultant to the USID, contributing her expertise in a wide variety of fields.

Joseph Pulitzer Jr.
Foremost editor, publisher

Joseph Pulitzer Jr., chairman of the Pulitzer Publishing Co. and its subsidiares, heads one of the nation's foremost family publishing empires. His family's journalistic roots go back to his grandfather, Joseph Pulitzer, who first worked as a reporter in the St. Louis German-American daily, the Westliche Post. His grandson, however, wanted to do more than simply read the papers, he wanted to buy that paper, the St. Louis Post-Dispatch, from page 1

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Sybil C. Mobley
Innovative business dean

Under the leadership of Sybil Collins Mobley, Ph.D., the School of Business and Industry (SBI) at Florida A&M University is blazing a trail for young African Americans to succeed in the business world. During her tenure at FAMU, which became the dean of the School of Business and Industry in 1974, Mobley has created an academic standing with the business school that prepares students to compete in today's market.

Sybil C. Mobley

Success of 'April Welcome' leads to increases in enrollment deposits from prospective students

The number of high school students who have submitted deposits to enroll at Washington University for the 1993-94 academic year has increased 12.4 percent over the 1992-93 school year. The number of deposits that the University's Committee for the Arts from the Saint Louis Art Museum in 1991. His service to the arts includes serving as a director of the University's Eliot Society, a trustee of the St. Louis Art Museum, and a member of the Corporate Council and past president of the American Review of Literature. His service to the arts also includes serving on the board of trustees and as honorary trustee of the Saint Louis Art Museum.

Harold A. Ramis
Successful Hollywood director

Successful Hollywood director, writer, and producer, Harold A. Ramis, was a key figure in the development of 'April Welcome.' His projects have included 'Stripes,' 'National Lampoon's Vacation,' and 'Caddyshack.' He is also noted for his role in the development of 'Ghostbusters,' a major box office hit. His most recent film, 'Groundhog Day,' a comedy in which he served as director, writer, and co-producer, was a hit with audiences.

Harold A. Ramis

Speaking of

Mary Ann Dantzick, Ph.D., assistant professor of psychology, delivered a paper titled "Biography and Institutional Culture: A Case Study of the University Genome Project: Prospects and Implications." Dantzick presented her research at the University of North Carolina in Greensboro. Her speech was co-sponsored by the Asymmetry Dialogue in the university's Center for Critical Inquiry and the Department of Psychology.

During a human rights workshop on Monday at the Missouri Democratic Party headquarters, Peter Mathikas, J.D., professor of law, spoke on "Establishment of an Independent Judicial System for Migrants." The workshop was held at The American University in Washington, D.C.

Guidelines for submitting copy:

Send all news copy to the Office of University Relations, phone number, and highest-earned degree, along with a typed description of your news item to the Record Office, c/o Carolyn Sanford, Campus Box 1070, 800 high school students who visited the University during April. The list of the last two decades," wrote the Chicago Tribune in a January 1993 article. The list included those who are graduating summa cum laude, those who are graduating with high honors, and those who are graduating with distinction. The list also contains a number of essays and commentaries that are published by Pulitzer. His service to the arts includes serving as a trustee of the St. Louis Art Museum and a member of the Board of Visitors of the Sib-tyrosine kinase family — Src — has been identified as a key player in the regulation of cellular proliferation. The volumes also contain a number of essays and com-

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

Of note

Karen Ho, a senior biochemistry major who is graduating summa cum laude, received the 1993 Harrison Dailey Stalker Prize in Biology, which is given to a senior graduating student for both academic excellence in science and breadth of interest. The prize is named after the late Harrison D. Stalker, who was a biology professor at Washington University for 35 years.

Patrick Y. Tung, M.D., a third-year resident in ophthalmology and visual sciences, was recognized by the American Medical Association (AMA) for his community service contributions. Tung was one of 50 honorees in the AMA/Burroughs Wellcome Leadership Program for Resident Physicians. He re-

Success of 'April Welcome' likely increased our efforts to the faculty, students, and staff.

Provost Edward S. Macias, Ph.D., agreed. "The tremendous success of 'April Welcome' — as seen by the increase in enrollment deposits — is a tribute to the excellent work of the entire University community working closely with the Office of Undergraduate Admissions," he said. "The Office of Undergraduate Admissions is responsible for attracting students personalized itineraries based on their interests. Also scheduled as part of the program to to encourage high school seniors to apply for prospective students to meet current students, faculty members, and the campus. Nearly 900 prospective students were interested in the campus. The number of students who have submitted enrollment deposits for the School of Engineering and Applied Science has jumped 44 percent from last year.

"Our success with 'April Welcome' likely increased our success in other areas," said Wingood. "We were very, very pleased with how "April Welcome" turned out. While the staff in the Office of Undergraduate Admissions has been facilitating individual programs for each admitted student who visited, the overall success of 'April Welcome' was largely due to the efforts of the faculty, students, and staff.

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Juliane Bekevich Wardenburg, a senior biology major, received the 1993 Marion Smith Specter Prize, which is awarded annually to an undergraduate who has completed an honor's thesis. In addition to her work on the St. Louis' Lifetime Achievement in the Arts Award, Wardenburg studied a number of the Src-tyrosine kinase family — Src — has been identified as a key player in the regulation of cellular proliferation.

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Exhibitions
"Kim Merker: Contemporary Handpress Prints." Through June 25. Hours: 8:30 a.m.-5 p.m. weekdays. Special Collection: Calendars and Maps. For more info., call 438-4670.

"Bachelor of Fine Arts Graduation Exhibition." Through May 16. Gallery of Art, upper gallery, Steinberg Hall. Hours: 10 a.m.-4 p.m. weekdays; 1:5 p.m.-weekends. For more info., call 363-4697.

"Washington University Art Collections — 19th- and 20th-century American and Artistic." 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 363-4643.

"Bodies, Bones and Bigness: China Perceived by Westeriners, 1914-1941." Through May 26. Glazer Gallery, seventh floor, School of Medicine Library. Hours: 8 a.m.-10 a.m. weekdays; 1-5 p.m. weekends. For more info., call 362-4239.

"Godnesses, Queens and Women of Achievement in Coins and Medallions From the Wulfsing and Bixby Collections." Through July 3. Gallery of Art, lower gallery, Steinberg Hall. Hours: 10 a.m.-4 p.m. weekdays; 1:5 p.m.-weekends. For more info., call 363-4523.

Lectures

Monday, May 17 4 p.m. Dept. of Biology seminar, "Disruption of Communication of Dermal Regulatory Elements by a Penelope Zinc Finger DNA Binding Protein," Pam Geyer, Duke University, Durham, NC. Room 322 Reebrook Hall.

Tuesday, May 18 4 p.m. Grad Program in Immunology seminar, "Control of Processing and Release of Interferon-β," David Tschachler, WU Dept. of Medicine. Kingshighway.

Wednesday, May 19 2:45 p.m. Washington University School of Medicine graduation ceremony. "Too Little or Too Much?" George Brown, prof., medicine, Jewish Hospital, and Evan Sadler, prof. of medicine, Jewish Hospital, Brown Room, Jewish Hospital. For more info., call 454-5550.

Friday, May 21 11:30 a.m. Pediatric Grand Rounds, "Recent Advances in X-linked Immunodeficiency Diseases," Fred S. Rosen, James L. Gamble Professor of Pediatrics, Harvard Medical School, and president, Center for Blood Research, Boston, MA. 4950 Children's Place.

Saturday, May 15 7:45 a.m. Washington University School of Medicine Education seminar, "Coronary Artery Disease in Women," Craig K. Reiss, program chairman. (75 credit hours AMA Category 1.) Ritz-Carlton Hotel, St. Louis. Cost: $300 in advance; $340 on-site. For more info., call 362-6893 or (800) 325-9862.

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2 p.m. Dept. of Mathematics minor oral, "Trace Ideal Criteria for Hankel Operators and Commutation Problems," Paul M. Gauthier. Room 199 Cupples I Hall.

Wednesday, May 26 10 a.m. Dept. of Mathematics major oral, "Hankel Operators on the Bergman Space," Saito Itoh. Room 206 Old Children's Hospital. Room 199 Cupples I Hall.


Friday, May 28 9 a.m. Student-Run Exchange Programs to be held on campus. For detailed information, call 935-5506.

Miscellaneous

Saturday, May 15 9 a.m.-5 p.m. Mid-America Dance Network and Performing Arts Dept. present the Mid-America Dance Network Choreography Conference. Guest choreographer and dancer: Nues Reynolds, U. of New Mexico, Albuquerque. Dance Studios, Room 207 Millikin Center and Rooms 1 and 2 in the Olm Women's Bldg. Cost: $200 for choreographers; $125 for dancers. For more info., call 935-4474 or (800) 355-9580.

Friday, May 28 Dept. of Music presents the International Women's Brass Conference with master classes, workshops, performances and competitions. Through June 1. All pro-grams to be held on campus. For detailed schedule, call 935-5506.

Special Events
May 13–June 5
For more information about any of the following Commencement Week events, call 362-6893 or (800) 325-9862.
2 p.m. School of Engineering and Applied Science Recognition Ceremony. Field House, Athletic Complex.
4:30 p.m. College of Arts and Sciences Recognition Ceremony. Brookings Quadrangle. (Rain location: Field House, Athletic Complex.)
9 p.m. Commencement Ball at the Ritz. Dancing and dessert for students, faculty, administrators, families and friends. The Ritz-Carlton Hotel, St. Louis, 100 Carondelet Plaza. Buses depart Brookings Hall at 9:30 p.m.

Friday, May 14
8 a.m. Graduates Assemble. Brookings Quadrangle.
8:30 a.m. Commencement in Brookings Quadrangle. (Rain location: St. Louis Arena at 10 a.m.)

Following the Commencement exercises, the details of the various divisions will hold a series of receptions where diplomas will be individually distributed. Receptions will be held for members of the graduating class, their families and friends. The receptions will immediately follow Commencement, unless otherwise noted.

College of Letters and Sciences
North side of Graham Chapel. (Rain location: west side of Olin Library.)
The Graduate School of Arts and Sciences
Hooding and recognition ceremony in Edison Theatre; reception in Gallery and Gorgas; lower level, Mallinckrodt Center.
University College
Olin Women's Hldg, Lounge.
School of Engineering and Applied Science
Lopata Gallery and Lopata Plaza between Jolley Hall and Cupples II Hall.
School of Technology and Information Management
North lawn of Prince Hall. (Rain location: Umrah Lounge.)
John M. Olin School of Business
Diploma ceremony in Field House, Athletic Complex; reception in John E. Simon Hall.
School of Fine Arts
Diploma ceremony in Brown Hall Aud.; reception in Barnard Auditorium.
George Warren Brown School of Social Work
Diploma ceremony in Graham Chapel; reception at Brown Hall. (Rain location: Brown Lounge.)
School of Law
Diploma ceremony in Brookings Quadrangle; reception in Sean G. Mudd Law Bldg.
Program in Occupational Therapy
Sheldon Concert Hall.
Health Administration Program
Diploma ceremony in Moore Aud., School of Medicine, Dokken King Faculty Center in the School of Medicine Library.
School of Medicine
St. Louis Marriot Pavilion.
School of Architecture
Diploma ceremony at 4 p.m. at Brookings Approach, north of Givens Hall; reception in Givens Hall

Summer faculty workshop on Africa, Islam offered

The Center for the Study of Islamic Societies and Civilizations is sponsoring an Intensive Summer Faculty Workshop on Africa and Islam. The workshop will be held from May 17 through May 28 in Lambert Hall on the campus, which is located on the third floor of Mallinckrodt Center. The workshop is part of the Near Eastern Curriculum and Faculty Development program, which is founded by the U.S. Department of Education's Undergraduate International Studies and Foreign Language Program.
Faculty members from Northwestern, Ohio State and St. Louis universities, as well as the University of Chicago, University of Illinois and the University of Connecticut, will present lectures on topics such as African history, religion, economics and politics. Assigned readings and bibliographies will be available prior to the workshop.
In the second half of the workshop, which will be held on East Asian studies. For more information about the workshops, call Peter Heath at 935-4325 or Joseph Allen at 935-5156.

132nd Commencement schedule of events

Order of Exercises
Note: The audience will please remain seated while the academic procession enters the Quadrangle. At the conclusion of the ceremony, the audience will remain seated until the recess has left the Quadrangle.

Academic Procession
The Mighty Mississippi State Marching Band of St. Louis, directed by Dan Presgrave, director of instrumental ensembles at Washington University
"America the Beautiful," sung by Deborah Good Simon
Remarks
Lee M. Liberman, chairman of the University's Board of Trustees
Commencement Address
"Attitudes and Alliances: Shared Dependences and Responsibilities for the Environment," Peter Hamilton Raven, director of the Missouri Botanical Garden and Engelmann Professor of Botany
Conferal of Honoraries Degrees
William H. Danforth, chancellor of Washington University, assisted by members of the University's Board of Trustees
Remarks by Senior Class President
Brian William Buckles
Conferal of Academic Degrees
Chancellor Danforth, assisted by Provost Edward S. Macias
The Chancellor's Message to the 1993 Graduates
Alma Mater
Catherine Marie Saccente
Recession
Order of Presentation
The following is the order in which academic degrees will be conferred
Bachelor of Arts
Bachelor of Music
Bachelor of Science
Bachelor of Science in Speech and Hearing
Master of Health Science
Master of Arts
Master of Arts in Education
Master of Fine Arts in Writing
Master of Liberal Arts
Master of Arts in Teaching
Master of Science in Speech and Hearing
Master of Music
Doctor of Philosophy
Bachelor of Science
Master of Science
Doctor of Science
Bachelor of Science
Bachelor of Technology
Master of Control Engineering
Master of Engineering Management
Master of Information Management
Master of Manufacturing Engineering
Telecommunication Management
Bachelor of Technology in Architecture
Bachelor of Architecture
Bachelor of Urban Design
Bachelor of Science in Business Administration
Master of Business Administration
Bachelor of Fine Arts
Master of Fine Arts
Bachelor of Social Work
Doctor of Law
Doctor of the Science of Law
Master of Laws
Bachelor of Science in Occupational Therapy
Master of Science in Occupational Therapy
Master of Science in Physical Therapy
Master of Health Administration
Master of Psychiatric Epidemiology
Doctor of Medicine

Academic Dress
The academic dress worn by faculty and candidates indicates the degree held, the subject in which it is held, and the institution granting it. Gowns are of three kinds: the Doctor's with very full sleeves gathered at the wrist. The Master's with flowing sleeves, which hang below the opening at the wrist; the Doctor's with very full sleeves gathered at the wrist.

The colors of the lining of the hood indicates the institution granting the degree: e.g., the hood of Washington University is lined with red and green. The colors of the lining of the hood are red and green, the University's colors, and the center section, which bears the seal of the University, is the color of the academic division.

Athletic Complex summer hours take effect May 17
Effective May 17, summer hours begin for the Athletic Complex. The complex will be open from 6:45 a.m. to 7 p.m. Monday through Friday, but will be closed on all Saturdays and Sundays, as well as two holidays — May 31 and July 5. The entire complex also will be closed July 19 through Aug. 1 for annual maintenance.

For more information on athletic facility schedules and hours, call 935-4705.
Pottinger proposes to redesign bear mascot to reflect student diversity

A thoroughgoing student who changed Washington University might like to think that he or she will leave behind an indelible mark, few are given the opportunity to do just that.

Senior Warren Pottinger hopes to open a printmaking studio in Jamaica.

Nemeth will be among the 95 students who will graduate with a bachelor's of fine arts degree this spring.

Nemeth will resume work in her laboratory this summer after a well-deserved vacation with her family to Disneyworld. She will then begin an internship in internal medicine at Jewish Hospital.
Lucky for Jennifer Blome, most of her colleagues graduate students in her early morning TV. Anonymity was important for her, she says, to watch the early morning news programs. When she interviewed her cousin, a TV producer in China, she wanted to remain as anonymous as possible.

"Most students stay up too late studying to watch the news, so they can't be sympathetic, but I question whether the government thinks you want to overthrow the" freedom of the press — especially when political issues are involved. On non-political matters such as cultural events, the government does not specify what reporters should cover. Officials also do not preview non-political reports, according to Feng, who has worked as a correspondent for CNN.

While Feng was in Atlanta, he was offered a spot in the prestigious William Benton Fellowship in Journalism program, administered by University College, the oldest graduate institution in the United States. After his fellowship, Feng began working at Washington University as a professor in the Cor- respondence Center and also enrolled in the International Affairs Program, which is administered by University College, the evening division of the Faculty of Arts and Sciences.

As a postdoc, Feng taught several courses in international trade and hopes to obtain a job in that field after graduation. "I'd like to get a job in the United States," he said. "I've been here for three months, and I feel much freer now than in China."
Graduate student’s promising theatre career began by accident

Seana Manning’s theatre career began when she accidentally shot a fellow student with a power staple gun. Despite that shaky start, Manning, who is receiving her master’s degree in performing arts, now is establishing a new Equity theatre company in St. Louis, called ShatterMask, and teaching theatre to kindergarten through sixth graders at a Ladue school.

While her backstage colleague wiped the blood from his ear, the technical director, a student with a power staple gun. “I want to give back to the community what it’s given to me,” he said.

That convinced him to pursue a degree in mechanical engineering. He landed a summer internship with a company that he mentioned also helps him focus his career goals.

During his junior year in high school, Hamilton entered accelerated learning programs, which allowed him to progress a year ahead of his peers. The National Honor Society student had begun to play football and was scholarship, which eventually some- one recognized her strong organizational skills and suggested she be a stage manager. That was great, Manning said, because stage managers “have some power.” But after a while she saw that the director had even more power, so she decided to try that.

Since that realization Manning has directed 12 plays over five years, including three Performing Arts Department events in the drama studio, six smaller projects and a special performance at Sheldon Concert Hall in St. Louis with a troupe of 16 deaf actors.

She came to Washington University planning to become a doctor — until she took freshman chemistry. Instead, she received a bachelor’s degree in performing arts in 1999. She cited her work-study job with a board of directors, raising money and organizing major events.

In another serendipitous arrangement, Manning also is planning for a full “part-time” job of teaching theatre to kindergar- ten through sixth graders. Henry I. Schvey, Ph.D., chair of the Performing Arts Department, was concerned that his children were not getting drama in school (they attend Community School in Ladue). So he sug- gested they offer a theatre class. The school agreed and Schvey suggested Manning for the job.

“I want to give back to the community what it’s given to me.”

When Hamilton entered Washington University, he still had dreams of going into research and development, a career he thought would have him working mostly by himself in a laboratory. But some experiences he had while studying here changed his mind.

“I want to get into the marketing and sales aspects of consumer products,” he said. “I want to get the job, job.... but I also want to be able to move around.”

He got some experience with that summer job at Proctor and Gamble. Jobs for black engineers seem to be tough to land, he said, but he added that new finding a job is not an easy thing for anyone, a situation he hopes will change by the time he earns his MBA in two years.

While at Washington University, Hamilton also found the time to help young people. Through the Fun Center, a program of the Campus Y, he’s gone once a week during the past year to the Yearman School, a public school in north St. Louis. While there he’s worked with students to improve their self esteem, helped them learn to say no to peer pressure that leads to gang activity, and helped them to
Bringing relief to the desperate defines Barbara Smith's way of life

She was to keep her own health. Her options for the future are wide and I retired right then and there." she remembers with a laugh.

"When she finally returned to the states, Smith was thrust into positions of authority quickly because there were no few international relief workers allowed into Malaysia at one time. As with most places she has been stationed, basic sanitation was an unheard-of luxury.

"My heroes here (in the United States) are the public utilities. The MSD (Metro- politan Sewer District) is saving more lives than any hospital ever thought about saving," she says, only half joking.

After a year, Smith returned to Barnes Hospital, where she worked in the emergency room.

This became her work pattern over the next decade. Smith would spend sometime in another country, return to the United States and work as a nurse at Barnes Hospital, then get sent to another country for several months to a year (depending on the need) before returning to St. Louis.

"My supervisors at Barnes were always extremely supportive of me," says Smith. "They let me take leave of absence so I could go whenever I was needed."

Smith next went to Thailand where she helped interpret for Vietnamese prisoners of war. "It was there that the burden of illness and death really began to weigh on me. Someone would find them and visit them and they would just pop right up. You couldn't help but notice the psychological element of illness."

In 1983 Smith had her resolve severely tested. While in Somalia she became very sick and began to realize how important it was to keep her own health.

"I was really hardheaded. I didn't go home when I got sick, I would just lie down for a week and people would step over me. Your whole view of illness changes when you see so much of it every day. Now I understand why people lie around with flies on their eyes because I was almost at that point."

When she finally returned to the states she was actually sent to the Boston hospital. She was eventually discharged, but her options for the future were limited. She was back in the hospital within three months. By then she had returned to St. Louis and went to Barnes Hospital. She then discovered that she had two different kinds of cancer and "six or seven things."

"By the time I was better I was sickest. I had the grand rounds for infectious diseases, and all my eyes were just looking for me to be humiliating," she remembers with a laugh. "My hair turned gray right then and there, and I retired right then and there."

Smith's retirement lasted barely a year when she got a desperate call from the International Rescue Committee begging her to go to Sudan in December 1984. St. Louis. Nagle said.

"I don't like it," Smith says of places she has visited. "I don't like it. And I felt like I didn't fit anymore. I returned to the same situation that I left, but it wasn't the same. I had begun to look at issues from a more international, European perspective, and I realized that most Americans don't view the world that way."

Nagle's involvement in extracurricular activities makes it difficult for him to name the highlights of his four years at Washington University. His hectic schedule included stints as a resident adviser, a secretary of the intradormity council, a freelance writer and editorial assistant for various University publications; and as co-founder of Into the Streets, a campus program that promotes philanthropic awareness among students.

"I've taken away something different from every experience I've been involved in here. I feel very good about developing and writing the University Safety and Security Manual for the Chancellor's Cabinet. I feel strongly about bringing Into the Streets to Washington University; the International Internship Program is a big one, but I have also taken away as much from hanging out at parties or sitting up all night talking about the problems of freshwater fish with the 19-year-olds on my floor in Shiley Hall. I can't pin it down, but I'm a better person for everything I've done."

Nagle is currently interviewing for international consulting jobs in Washington, D.C.
Students experience rigors of owning a business during Olin Cup contest

S

tudents at the John M. Olin School of Business have felt the pressures of entrepreneurship firsthand, when they sought investors for an international venture capital firm, a specialty food retailing operation and a private prison system.

The projects were just a few of several proposals created by 54 students who competed in the school’s fifth annual John M. Olin Cup Competition. Each project was presented in a three-minute pitch for investors as part of the competition.

The winning team, 
"Organizational Justice for American Business," as a general theme, the students were judged on the complexity of their ideas, as well as their ability to defend their concepts under fire. Executives of the John M. Olin Foundation, including William E. Simon, foundation president and former secretary of the U.S. Treasury, judged the final presentations.

Dr. Greg Wing, an associate professor of organizational behavior and the co-director of the Olin Cup, described the competition as an "unstructured" and "untargeted" way to demonstrate the guests how to think about ethical issues and to apply ethical principles to business situations.

The Olin Cup competition was announced at the end of the fall semester for the full-time MBA program, and the winners were presented with a certificate and $250. The second-place winners received $150, and the third-place winners received $75.

The English Department announces student winners of poetry, fiction, and essay contests

The English Department recently awarded student prizes for poetry, fiction, and essays. The winners were announced at a departmental meeting. The English Department faculty judged all the essay contests. Graduate student Lynn Murray received the Academy of American Poets Prize, along with a $100, for her poem titled "The Olin Cup."

Lynn Murray received the Academy of American Poets Prize, along with a $100, for her poem titled "The Olin Cup." She received $100 as well. Laura Gerrity, a graduate student, received honorable mention for her essay titled "Mary McCarthy Did Not Go to Yellowstone Park."" The Freshmen "Skyline" and "Burned Up," respectively. Paik received $50 and the second-place winners each received $25.

Senior Lori Bloom won the Louis Comfort Tiffany Essay Prize for her essay titled "Mary McCarthy Did Not Go to Yellowstone Park."" The Freshmen "Skyline" and "Burned Up," respectively. Paik received $50 and the second-place winners each received $25.

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