

MIZZOU

W E E K L Y

University of Missouri-Columbia March 18, 1999

INSIDE THE WEEKLY

Page 8: The office of Student Life Studies has prepared a special report on undergraduate assessment at MU

Mizzou Weekly will not be published next week during spring break. Publication will resume April 1

Investing in the future

NSF director Rita Colwell says the potential directions for science and engineering research are exploding.

According to Rita Colwell, director of the National Science Foundation, her agency's \$11 million grant to MU for maize genome research will have a big impact not just on campus, but also nationally and internationally.

"Plant genomics is just unfolding so rapidly, and it's very, very exciting. We will know more about plant development, structure and function than we have ever known before," Colwell said during her visit to MU last week.

What that grant has done for MU, she said, "is provide a rejuvenation of leadership that the University of Missouri enjoyed when it was really looked at in classical genetics as being a hotbed of research.

"I think we will see a resurgence here

because you already have a tremendous tradition," Colwell said. "It's a very natural and logical investment for the NSF to have made, and it's a logical and sensible investment for the University and the state."

Colwell, who has served as NSF director since last August, was on campus March 9 and 10 to give the keynote speech at MU's Molecular Biology Week. During her visit she spoke at a public forum about her own research work, which examines the link between global warming and the spread of cholera.

Colwell also met with students, faculty and researchers. In meeting with MU's maize-genome mapping team, she told the scientists that they must inform farmers and consumers about the enormous

promise held out by the study of genomes.

"You should consider town hall meetings, bringing farmers in to discuss what you're doing," Colwell said, and added that the antagonism of some consumers for biological engineering can often be overcome with greater understanding.

At an open forum March 10, Colwell discussed her agency's priorities and new initiatives. "My first year is shaping up to be as challenging as I had hoped. There's real excitement in being in NSF right now as we look at all the potential directions for science and engineering in the new millennium," she said.

But Colwell also pointed out disturbing news from a recent NSF study that looked at federal support for research across different fields of science and engineering. "What's happened is that the balance and the mix has shifted two ways. First of all, federal investment has dropped significantly compared to industry in the last 30 years. That drop is, I think, dangerous. The total amount of

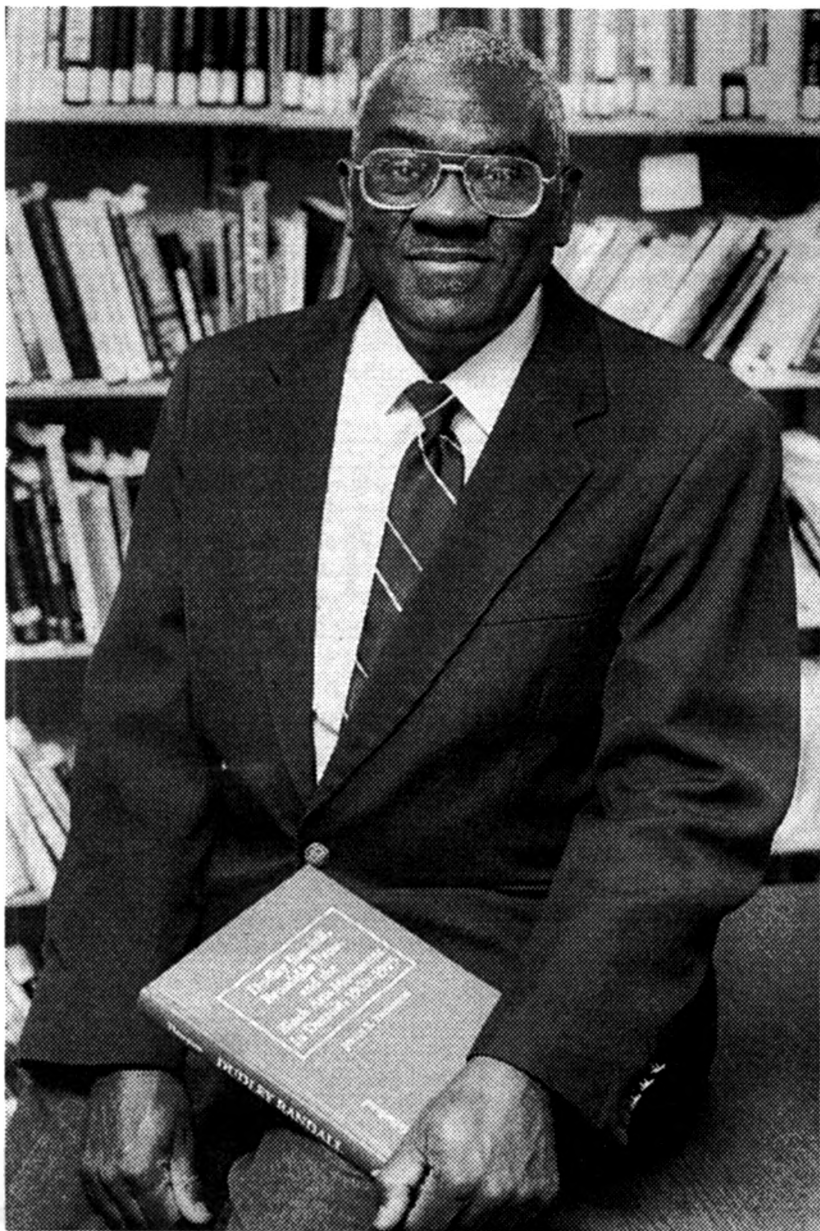
investment needs to be increased," Colwell said.

A second disturbing trend, she said, is a dramatic change in the mix of federal support for research. "Biomedical fields have gained and physical sciences and engineering have lost ground," Colwell said. "That's not to say that we should take away from the increase in biomedical. That's important, but we should simultaneously be increasing our investment to keep that balance."

For the next fiscal year, Colwell said her agency's proposed budget emphasizes three major priorities: information technology, biocomplexity and education. As an example of education initiatives, she pointed to a new NSF graduate education fellowship program that will provide funding for graduate students to teach in elementary and secondary classrooms.

Also at the forum, Colwell asked how the NSF could better support

See NSF on Page 7



Rob Hill photo

Julius Thompson hopes scholars will use his book on Detroit's Broadside Press as a guide for other studies of the Black Arts Movement, especially in the Midwest, the West and the South.

Against the odds

Black Studies director's research documents publisher's commitment to advancing African-American literature and freedom.

The name of Dudley Randall holds a definite place among American poets, editors and publishers who have profoundly influenced American life and culture since World War II. Randall's key contribution was made in 1965 — during the rise of both the Civil Rights and the Black Arts movements — with his founding of Broadside Press, a company devoted to publishing, distributing and promoting the works of black poets and other writers.

"Publishing poetry is difficult as an art form in the United States, particularly for black writers because of the economics of writing, but poetry has always been of tremendous interest in the black community," says poet and historian Julius Thompson, director of black studies and an associate professor of history.

His recently published book, *Dudley Randall, Broadside Press, and the Black Arts Movement in Detroit, 1960-1995*, a culmination of 10 years of research and writing, details Randall's contributions toward promoting literacy, black consciousness and an appreciation for black literature in the United States and abroad.

Thompson says Randall was among the forerunners of modern African-American poets who came of age during the Great Depression and World War II years. "But he was not content to sit idly by and only write poetry. He took effective action to be a part of the campaign to promote black literature and the arts as a component of the freedom struggles of African Americans in the 1960s and '70s."

Randall's role in the advancement of the black community during the 20th century reminds Thompson of the contributions black abolitionists made in the 19th century to help galvanize a nation toward social reform. "Like the abolitionists, Dudley Randall worked for

decades against the odds to foster creative change and human awareness and understanding," Thompson says.

At age 46, Randall, a professional librarian, started Broadside Press with a mere \$12 from his paycheck. Its primary goal was to be a vehicle through which poets and writers who were not being published by traditional houses could find an outlet for their work. From these humble beginnings, the press grew to become one of today's top three black-owned publishing companies in the United States.

In the process, Thompson says, Randall was able to attract an astonishing number of major and minor poets to Broadside Press during the Black Arts Movement, including Gwendolyn Brooks, Margaret Walker, Margaret Danner, Marvin X, Amiri Baraka [LeRoi Jones] Haki Madhubuti [Don L. Lee], Ethridge Knight, Nikki Giovanni and Sonia Sanchez, among so many others.

"Along the way, he sacrificed much in terms of his own personal comfort to help hundreds of writers to lift their voices so that the world might hear their songs of freedom, love, hope and faith," Thompson says. Before retiring full time in 1985, Randall had published well over 400 writers, including himself, in broadsides [single poems on single sheets of paper], anthologies, volumes and on tapes.

In reflecting on how sincere Randall was in meeting the gender challenge, Thompson says he was "the fairest black American editor to black women in history. He did not talk about doing something for them; he did do something. He published the works of more than 140 black women writers between 1965 and 1975. Such accomplishments have not been achieved by anyone else in modern America."



MU STAFF COUNCIL PLANS LUNCHTIME DISCUSSIONS

A series of brown-bag luncheons are being planned by the Staff Advisory Council with constituents campuswide. "We want to strengthen communication between the council and staff at large," said chair Paul Morris at the

council's March 11 meeting. "Employees and other staff councils on campus are encouraged to invite representatives from the Staff Advisory Council to come to their offices from noon to 1 p.m. so we can learn more about their concerns face to face in an intimate setting, as well as tell them about the council and our projects."

Anyone interested in hearing from council members over lunch should call Darlene Schroeder, council secretary, at 882-4269, or Morris at 882-3473.

COMPUTING A STRATEGIC PLAN

Faculty, staff and students are invited to two open forums to discuss computing initiatives under way on campus. One of the most difficult computing challenges facing MU is the tremendous growth in e-mail and internet usage. In just over three years, the number of e-mail messages sent each day has increased from 23,000 to 570,000. In the same period, the number of internet hits has grown from 10,000 to 850,000 a day.

The forums will be an opportunity to voice concerns and make suggestions to computing

planners and to members of two campuswide committees studying computer needs on campus. The first forum will be held from 3:30 to 5 p.m. March 31 at Keller Auditorium in the Geological Sciences Building. The second forum will be from 7:45 to 9:15 April 1 at Fisher Auditorium in Gannett Hall.

OVER THE TOP

Membership in the MU Alumni Association is at an all-time high with more than 31,000 members worldwide, reports Cindy Frazier, membership director. This number reflects a more than 25 percent increase from 23,800 members in 1994.

"As a result of this high number of members, the MUAA has been able to increase its scholarship programs to students, support alumni activities in chapters across the country and to continue to reach out to more alumni," said Bill Giddings, chair of the membership committee.

"This accomplishment is a

KOMU manager named

Martin Siddall will serve as KOMU-TV's general manager effective April 5, 1999, Kee Groshong, vice chancellor for administrative services, announced March 8. KOMU-TV, Columbia's NBC affiliate, is the nation's only university-owned commercial television station used for educational purposes.

Siddall will replace Tom Gray, who retired last November after serving as general manager of the television station since 1974. John Strecker, KOMU-TV sales manager, has served as interim general manager since Gray's retirement. Siddall, who has worked in broadcast for more than 20 years, was selected after a nationwide search.

"We are pleased that we have found a person with the right combination of experience and skills to lead KOMU into the next century," said Kee Groshong, MU

vice chancellor for administrative services.

Siddall was appointed director of business affairs for WRTV in Indianapolis, Ind., in October 1986. He joined the McGraw-Hill Broadcasting company in 1983 as a senior financial analyst for the four-station group. Before joining McGraw-Hill, Siddall worked for Ziff-Davis Broadcasting Company as business manager of WROC-TV/AM/FM in Rochester, N.Y., and later as assistant controller of the six-television-station group.

A native of Rome, N. Y., Siddall graduated cum laude from Pace University with a bachelor's degree of business administration in public accounting. "My family and I are delighted to be moving to this wonderful community, and I look forward to the challenges of continuing the legacy of KOMU into the next century," Siddall said.

KOMU-TV serves as a practicum laboratory for students enrolled in the MU School of Journalism, providing hands-on experience for students in broadcast news. The station occupies a unique position: no other journalism school in the United States provides news gathering education with on-air realism in such a setting.

Hospital proposal explored

The University and the MU Health Sciences Center continue to consider possible options following the recent announcement by Tenet Healthcare Corp. that it would sell Columbia Regional Hospital. Tenet, a for-profit company which owns 129 hospitals around the country, said early in March that Columbia Regional is one of 20 hospitals the company is offering for sale.

Following the March 15 deadline that Tenet set for receiving proposals, UM System spokesman Maurice Manring said the University is still interested in pursuing the purchase. "We'll know more when Tenet selects the finalists," Manring said.

At a March 9 meeting in Columbia, the Board of Curators authorized UM System President Manuel Pacheco and MU Chancellor Richard Wallace to proceed with the detailed evaluation of information on Columbia Regional Hospital, and to determine whether the University has any interest in future

acquisition discussions with the seller.

The board also authorized the retention of Morgan Stanley and Cain Brothers as consultants to assist the University in evaluating information relative to Columbia Regional Hospital.

A statement issued after that meeting said:

"The Board of Curators is aware of the interest that the community has in the future of Columbia Regional Hospital and the intentions of the University in this matter. However, the owner of Columbia Regional Hospital has required the University of Missouri to enter into a confidentiality agreement wherein the University of Missouri is forbidden from revealing information about Columbia Regional Hospital that the owner deems confidential. University of Missouri officials will therefore not be discussing further details in public, though the University may from time to time communicate its continuing level of interest in Columbia Regional Hospital."

A message brought to you by MSA.

Faculty, Students need your help!

Why is it important to get your textbook adoptions in on time?

More used textbooks could be available to students

Students could receive more money from text buybacks

MSA can more easily develop a textbook exchange program

For more information on textbook adoptions, please contact KellieAnn C. Berlin, Assistant Textbook Manager, at 882-8426 or cordovak@missouri.edu



Please submit your textbook adoptions to the University Bookstore by:

March 29!



Volume 20 Number 25

A publication for University of Missouri-Columbia faculty and staff, published every Thursday during the academic year and twice a month during the summer by Publications and Alumni Communication, a department of University Affairs, 407 Reynolds Alumni and Visitor Center, 882-7357. News deadline is noon Thursday the week before publication. Annual subscriptions are available for \$25.

Editor John Beahler
Graphic editor Sue Richardson
Director of advertising Tanya Stitt
Photographers Rob Hill, Nancy O'Connor
Assistants Yoon Cho, Emily Smith



Printed with soy ink on recycled newsprint containing 90 percent to 100 percent post-consumer waste.

reflection of the time and commitment of hundreds of volunteers, leaders and staff," said Todd Coleman, executive director of the Alumni Association. "Not only does this number represent increased recruitment and awareness efforts, but also a purposeful effort to retain the thousands of members who have supported the organization for many years. Membership is the foundation of our Alumni Association and we will continue our efforts to build on this success."

Alumni, students, faculty, staff, parents, friends and any MU enthusiast may join the Alumni Association. Membership dues fund

successful programs such as faculty incentive grants, alumni awards, student scholarships, Homecoming and much more. Members of the association receive information about MU, an annual calendar highlighting MU events, various discounts from businesses across the nation and many other benefits. For information about membership, contact the Alumni Association at 882-6611.

DISCOVERING ISSUES ABOUT DISABILITIES

Each year, MU's Disability Awareness Week provides the University community an opportunity to explore some of the issues that surround persons with disabilities. The week of activities begins at 8:30 a.m. April 3 on Stankowski Field with a 5K Run, Walk, Roll fundraiser to benefit scholarships for students with disabilities. Other activities include:

- A kickoff dinner from 6 to 8 p.m. April 5 with featured speakers that include Dale Erickson, a gold medalist on the Quad Rugby team, U.S. Rep. Kenny Hulshof, state Rep. Chuck Graham, and Jean

Zwonitzer, interim vice provost for minority affairs and faculty development. Tickets are available at the MSA/GPC Box Office in Brady Commons.

- A wheelchair basketball exhibition game at 4 p.m. April 6 in the Student Recreation Center.

- A simulation of various disabilities including quadruplegia, muscular dystrophy, and vision and hearing impairments from 10 a.m. to 2 p.m. April 7 on the first floor of Brady Commons.

- A plant sale from 9 a.m. to 5 p.m. April 8 in the lower level of Brady Commons.

- A panel discussion about the collegiate and professional issues

surrounding persons with disabilities from noon to 1:30 p.m. April 9 in the Memorial Union's Stotler Lounge.

With questions about any of the events, contact MU's Disability Services office at 882-4696.

Endowments bring the best to Mizzou

Nearly \$9 million in endowments at MU were approved for state matching funds during the second half of 1998. The income distributions from endowments for three professorships and seven chairs have been approved to receive state matching funds through the Missouri Endowed Professorship and Chair Program.

"Through the Missouri Endowed Professorship and Chair Program and the generosity of our alumni and friends, MU is better able to recruit and retain some of the world's leading teaching and research faculty," said Harold Jeffcoat, vice chancellor for development and alumni relations. "The new endowments each are linked closely to our commitment to Mission Enhancement and to the campus strategic plan. We want to thank, once again, each of our benefactors for their great generosity."

The following professorships and chairs have recently been approved for state matching funds:

- The Society of American Business Editors and Writers Professorship in Business Journalism in the Missouri School of Journalism. The SABEW Professorship is a joint effort between the School of Journalism and SABEW to train better business journalists at MU. The professor will teach business journalism courses, recruit minority journalists into business and economics reporting, provide mid-career training for business journalists and lead development of a master's degree emphasis in business and economics journalism, among other duties.

- The Thomas and Betty Scott Missouri Professorship in Veterinary Oncology in the College of Veterinary Medicine. This professor will anchor the innovative veterinary oncology team at MU. The Scotts are longtime supporters of the College of Veterinary Medicine and reside in the Kansas City area. In addition to the Scott professorship, the college also is home to endowed professorships in veterinary cardiology, ophthalmology, small animal nutrition and equine lameness.

- The Elwood Thomas Missouri Endowed Professorship in the School of Law. This endowment was created in honor of Judge Elwood Thomas, a leader in the law profession, by more than 300

contributors. Thomas was a professor in the MU School of Law from 1965 until 1978, when he moved to Kansas City to practice private law for the firm of Shook, Hardy and Bacon. After practicing with the firm, Elwood was appointed to the Missouri Supreme Court. The law school is seeking a nationally recognized legal scholar to fill the position.

- The Thomas W. and Joan F. Burns Chair in Diabetology in the School of Medicine. This chair will direct the Cosmopolitan International Diabetes Center at University Hospital and Clinics, a center that Thomas Burns helped establish in the mid-1970s. Burns was director of the center from its opening in 1976 until he retired in 1992. This chair joins 22 other endowed chairs and professorships in the School of Medicine.

- The Community Newspaper Management Chair in the School of Journalism. Established cooperatively by the School of Journalism and the Missouri Press Association, this professorship has been funded by numerous donors. The professor's primary responsibilities will include establishing ongoing relationships with Missouri publishers, serving as the liaison between the Missouri Press organizations and the school, and directing an integrated curriculum that trains students to manage all areas of community newspapers.

- The Kenneth L. Lay Chair in International Economics in the College of Arts and Science. Created by Kenneth L. Lay, chairman and chief executive officer of Enron Corp., the endowed chair in international economics will be housed in MU's Department of Economics, from which Lay earned both his bachelor's and master's degrees.

- The Russell and Mary Shelden Chair in Anesthesiology Research & Pain Management in the School of Medicine. This chair was created by a gift from Russell D. Shelden and his wife Mary, longtime supporters of the University. The chair will help the school attract a top researcher in the area of anesthesiology and will join the Russell D. Shelden, M.D., Distinguished Professorship in Anesthesiology, established in 1992.

- The Hugh E. Stephenson Jr., M.D., Chair in Surgery in the School of Medicine. The Stephenson chair was created by John A. Growdon to honor

Stephenson, professor emeritus of surgery and one of the School of Medicine's original faculty members. In January, the chair was filled by James W. Jones, who leads the clinical and academic surgery programs at the MU Health Sciences Center.

- The Wurdack Chair in Animal Genomics in the College of Agriculture, Food and Natural Resources. This chair will have expertise in molecular genetics and his or her research will focus on identifying specific genes that impact animal reproduction and growth, and the various interactions of nutrition and reproduction of farm animals. This chair

was created by a trust left by the late Hugo Wurdack, a businessman from St. Louis, who also donated his farm to the college to use as a research farm.

- The Wurdack Chair in Phytoremediation Studies and Sustainable Ecosystem Preservation, also in the College of Agriculture, Food and Natural Resources. This chair directly relates to areas of Mission Enhancement at MU, including plant biology, plant biotechnology and plant genomics-life sciences. The college is home to six endowed professorships and three endowed chairs.

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Come, convey your thoughts and discuss the direction of information technology at MU at the...

Open Forum

hosted by:

Information & Access Technology Services, the Campus Computer Policy Committee and the Computer Policy & Strategies Committee

Mark your calendar with these dates and times:

March 31, 3:30 p.m. - 5 p.m.,
Keller Auditorium (Geological Sciences)

April 1, 7:45 a.m. - 9:15 a.m.,
Fisher Auditorium (Gannett Hall)

"The purpose of the open forums is to hear from the campus community as to their viewpoint of issues surrounding information technology on campus." - Ed Mahon, assistant vice chancellor, computing

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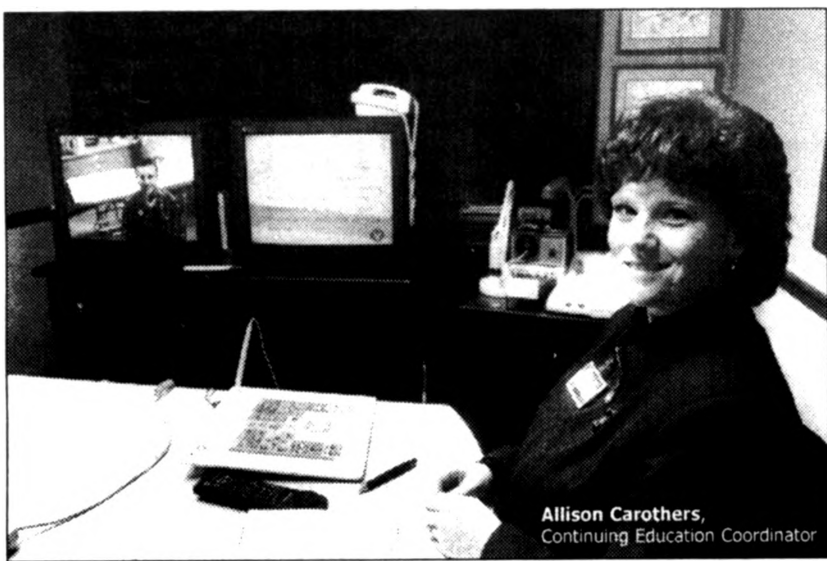
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Sat 9 a.m. - 4 p.m., Sun Noon - 10 p.m.

M Extension



Allison Carothers,
Continuing Education Coordinator

Wired to learn.

Technology transcends the miles for physicians who work in Unionville, Brookfield and 13 other rural Missouri communities—places that ordinarily might be isolated from the latest medical knowledge. By way of the Missouri Telemedicine Network, Allison Carothers sees to it that rural health professionals don't have to leave town—or even the hospital building—to learn.

They often can be found munching on sandwiches, listening to a noontime grand rounds lecture from the MU School of Medicine on the network's interactive TV system. Or they come together in smaller groups, debating a case with family medicine faculty.

As Allison will tell you, continuing education and telemedicine make a powerful combination, especially for those professionals out on the front line saving lives...

Continuing Education for the Health Professions

<http://muhealth.org/~medicine/cme.shtml>

The Power of Lifelong Learning

MIZZOU IN THE MEDIA

Has news of your latest project appeared in newspapers or magazines recently? Have you been interviewed by television or radio stations? If you'd like to share this news with the campus community, send your information to John Beahler at 407 Reynolds Center.

MU's Adaptive Computer Center was featured in a December article in *Diversity/Careers* for hosting the Steve Wonder/SAP Vision Awards earlier last year.

Jerry Atwood, professor and chair of chemistry, was featured in an article in the December issue of *High Technology Careers* for his research on Buckeyballs, a particular molecule used in many technical applications.

Michael Barker, associate professor of civil engineering, was featured in a November 1998 article in *Heavy Duty Trucking* for his research on bridges. Barker's research also was featured in a Dec. 21 article in *Transport Topics*.

William Benoit, professor of communication, was quoted in a Nov. 19 article in the *Philadelphia Inquirer* about apologies. Benoit is the author of *Accounts, Excuses and Apologies: A Theory of Image Restoration Strategies*.

The Nov. 26 issue of *Black Issues in Higher Education* mentioned the \$2.4 million grant MU received from the National Science Foundation for minority graduate education. That grant also was featured in the February issue of *NSTA Reports*.

Allen Bluedorn, associate professor of management, was featured in a number of articles about his research on stand-up versus sit-down meetings. Those articles were printed in the *Wausau (Wis.) Daily Herald*; *Psychology Today*; *Management Review*; the Rochester, N.Y., *Democrat and Chronicle*; the *Nashville Tennessean*; the Cedar Rapids, Iowa, *Gazette*; the *Chicago Sun-Times*; the Stamford, Conn., *Advocate*; the Greenwich (Conn.) *Time* and the Arlington Heights, Ill., *Daily Herald*.

Jack Burns, vice provost for research, was featured in an article in the Jan. 26 issue of *The New York Times* for his work on superclusters of galaxies and weather in the universe.

Rex Campbell, professor of rural sociology, was quoted in an article on the dwindling number of small towns in rural America that appeared in the Dec. 13 issue of *Parade Magazine*. The article was written by MU journalism alumnus Lamar Graham.

The Chronicle of Philanthropy announced in its November 1998 issue the public affairs endowed professorship in the School of Journalism and the Marvin Millsap professorship in family diversity and multicultural studies and a professorship in gerontology and public policy. In January it included a mention of the \$5 million anonymous gift to the College of Business and Public Administration to establish three endowed professorships and three endowed chairs.

Research by Harris Cooper, professor of psychology, on the impact of homework on elementary school students was featured in a Dec. 27 article in the Portland, Maine, *Maine Sunday Telegram*; in the Jan. 3 issue of *The New York Times*, in the Jan. 17 issue of the *Chicago Tribune*, the Jan. 24 issue of the *San Francisco Examiner-Chronicle*, the Jan. 18 issue of the *Seattle Times*, the Jan. 31 issue of the *Des Moines Sunday Register*, and the Feb. 7 issue of the *Pensacola News*

Journal.

Jeff Firman, professor of animal science, was featured in a New York *Daily News* article on Nov. 22. He was quoted regarding his knowledge about turkey diets. Firman also was quoted in a Nov. 26 article in the Staunton, Va., *News Leader*, an article in the Woodbury (Minn.) *News*, the Staten Island (N.Y.) *Advance* and the *Railey Tribune* in Royal Oak, Wis.

Mark Flinn, associate professor of anthropology, was featured in a Jan. 1 article in the *Holbrook (Ariz.) Tribune-News* for his work on stress and the occurrence of illness in children. That work also was featured in the January/February issue of *Earthwatch*. David Geary, professor of psychology, was featured in a Jan. 18 editorial in the *New York Observer* for his new book, *Male, Female: The Evolution of Human Sexual Differences*.

A list of the top 25 most important magazines in America published in *Impression*, the journalism school's online magazine, was featured in a Jan. 28 article in the *Pittsburgh Post-Gazette*.

Joe Kornegay's appointment as dean of veterinary medicine was reported in the Feb. 5 issue of *The Chronicle of Higher Education*.

Large Animal Practice published a story in its January/February issue about the unusual cattle disease investigated by pathologists at MU's Veterinary Medical Diagnostic Laboratory.

Henry Liu, professor of civil engineering, was featured in an article in the December issue of *Earth Work* for his research on using pipelines to haul biomass trash.

Tony Lupo, assistant professor of atmospheric science, was interviewed about his work with the MU Storm/Tornado Chase Team by "The Environment Show," which airs on more than 200 radio stations nationwide.

Lupo also was interviewed March 8 by KMOX Radio in St. Louis.

Michael Middleton's appointment as deputy chancellor was announced in *The Chronicle of Higher Education* in November.

Michael O'Brien, professor of anthropology and associate dean of arts and science, was mentioned in a Jan. 14 article in the Gary, Ind., *Post-Tribune* for his discovery of 8,000-year-old shoes.

The University of Missouri-Columbia was mentioned in a Jan. 6 article in the *Mount Vernon (Ind.) Democrat* about the Donald Danforth Plant Science Center. The University also was mentioned in a Jan. 21 article in the *Detroit Free-Press* for a conference on the death penalty that was held on campus.

Veterinary Product News reported in its January issue the progress of the search for a dean of veterinary medicine

Rob Weagley, associate professor of consumer and family economics, was featured in an article in the Jan. 15 issue of the *Riverside, Calif., Press-Enterprise*.

RETIREES ASSOCIATION

The MU Retiree Association will hold its annual spring program and business meeting on Wednesday, March 24 in the Columns Room of the Reynolds Alumni and Visitors Center. Registration will be from 9:30 to 10 a.m. Refreshments will be available. The program begins at 10 a.m. with a presentation by Ann Cohen, who will provide an update on plans for a Health Adventure Center, an interactive science museum and health education center to be built in downtown Columbia. The program will be followed by the MU Retiree Association's spring business meeting.



IATS COMPUTER COURSES

Registration 573-882-6006

The following non-credit courses are free of charge and open to MU faculty, staff and students. Registration is required and is on a first-come, first-served basis. Registrants should remember to phone 882-4568 the day prior to class in order to obtain permission to park in lot RC20.

For the complete Course Schedule including class times, see the following URL: <http://www.missouri.edu/~iatstg/calendar.html>

For a complete listing of Course Descriptions, see the following URL: <http://www.missouri.edu/~iatstg/course.html>

APRIL 1999

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
			1 Intermediate Photoshop 9 AM-12 PM PowerPoint 9 AM-12 PM	2 Intermediate Word 9 AM-12 PM Introduction to Word 9 AM-12 PM Advanced Access
5 Intermediate Excel	6 Introduction to Access	7 Introduction to Excel 9 AM-12 PM	8 Introduction to Excel 9 AM-12 PM Access Forms and Report	9 Introduction to Photoshop 9 AM-12 PM Introduction to Access
12	13 Intermediate Access 9 AM-12 PM	14 Introduction to Photoshop 9 AM-12 PM Intermediate Photoshop	15 Intermediate Excel 9 AM-12 PM	16 Introduction to Excel 9 AM-12 PM Intermediate Word
19	20 Introduction to Word 9 AM-12 PM	21 Introduction to Access 9 AM-12 PM	22 Intermediate Word 9 AM-12 PM	23 Intermediate Access 9 AM-12 PM Introduction to Excel
26 Introduction to Access	27 Advanced Photoshop 9 AM-12 PM	28 Advanced Word 9 AM-12 PM Access Forms and Reports	29 Intermediate Excel 9 AM-12 PM Introduction to Word	30 Advanced Access 9 AM-12 PM

CALENDAR

Send calendar items by Campus Mail to
Mizzou Weekly Calendar, 407 Reynolds Center,
by noon Thursday the week before publication.
Events are free and open to the public unless otherwise noted.

Concerts and Plays

Thursday, March 18

STUDENT ENSEMBLE SERIES: The Symphonic Band and Jazz 1 will perform at 8 p.m. in the Memorial Union's Stotler Lounge.

THEATER SERIES: New plays from the Missouri Playwrights Workshop will be performed at 8 p.m. in the Corner Playhouse. For ticket information, call 882-PLAY.

Saturday, March 20

UNIVERSITY CONCERT SERIES: The Missoula Children's Theater will perform "Beauty Lou and the Country Beast" at 3 and 7 p.m. in Jesse Auditorium. For ticket information, call 882-3781.

Saturday, March 27

UNIVERSITY CONCERT SERIES: "The King and I" will be performed at 3 and 8 p.m. in Jesse Auditorium. For ticket information, call 882-3781.

Wednesday, March 31

STUDENT ENSEMBLE SERIES: A viola ensemble will perform at 7 p.m. in Whitmore Recital Hall.

Conferences

Tuesday, March 30

NURSING CONFERENCE: "Employee Health Nursing Update" will be presented all day today in S255 Sinclair School of Nursing. For times, registration and cost, call 882-0215.

Courses

Thursday, March 18

ACCOUNTING COURSE: Brenda Lewis, senior accountant with Accounting Services, will present "FRS on the Web" from 9-11 a.m. in the second-floor conference room in Turner Avenue garage. The course will also be held on April 15. To register, call 882-6750.

HUMAN RESOURCES COURSE: Paul Toler, director of cashiers and student loan collections, will present "Is There HOPE?" a seminar on HOPE scholarships and lifetime tax credits, from 1-3 p.m. and also "Balancing Financial Service and Safety" from 3-5 p.m. Both lectures will be held in the second-floor conference room of Turner Avenue garage. Registration required, call 882-7728.

RADIATION SAFETY: Bob Theesfeld, health physicist, will present "Radiation Safety at MU-Update" from 1-3:30 p.m. in the Environmental Health and Safety classroom in the Research Park Building. The course is held the third Thursday of each month. To register, call 882-7018.

MANAGEMENT COURSE: Jennifer Alexander, manager of Procurement/Materials Management special projects, will present "ProCard Orientation" from 1:30-3 p.m. at 1105 Carrie Francke Dr. The course also will be held April 20 and May 17. To register, call 882-1450.

Monday, March 22

COMPUTING COURSE: "Introduction to Access" will be held from 1-4 p.m. For location, and to register, call 882-6006.

Tuesday, March 23

COMPUTING COURSE: "Intermediate Outlook98" will be held from 9 a.m.-noon. For location, and to register, call 882-6006.

BREAST-FEEDING COURSE: A course on breast-feeding will be held from 7-9 p.m. in 608 University Hospital and Clinics. To register, call 882-6972.

Wednesday, March 24

ACCOUNTING COURSE: Sandy Coy, senior accountant with Accounting Services, will present "Account Information on the Web" from 9:30-11:30 a.m. in the second-floor conference room of Turner Avenue garage. The course also will be held April 21. To register, call 884-0741.

DIABETES COURSE: "Managing Your Diabetes-A Lifetime Plan," an introductory class, will be held from 1:30-3:30 p.m. Wednesdays through May 12 at the Cosmopolitan International Diabetes Center classroom in University Hospital and Clinics. For more information, or to register, call 882-6565.

COMPUTING COURSE: "Intermediate Access" will be held from 1-4 p.m. For location, and to register, call 882-6006.

Friday, March 26

COMPUTING COURSE: "Advanced Access" will be held from 1-4 p.m. For location, and to register, call 882-6006.

Monday, March 29

WEIGHT-LOSS PROGRAM: "Steps for Success-Living Lean for Life" will be held at 5:30 p.m. in the Cosmopolitan International Diabetes Center classroom in University Hospital and Clinics. The program consists of four weeks of classes. With questions, call 882-9712.

Tuesday, March 30

COMPUTING COURSE: "PowerPoint" will be held from 9 a.m.-noon. For location, and to register, call 882-6006.

HUMAN RESOURCES COURSE: "Getting Your Ideas Across" will be presented from 8 a.m.-noon in S203 Memorial Union. Registration required, call 882-2603.

HAZARDOUS MATERIALS COURSE: "Introduction to Hazardous Materials Management" will be offered from 2-5 p.m. in Room 12 Research Park Building. The course will also be held April 14, May 18 and June 9. Registration required, call 882-7018.

INSTRUCTIONAL TECHNOLOGY COLLOQUIUM: "Picture Perfect with PhotoShop" will be presented from 2-4 p.m. in 305 Hill Hall. Enrollment limited, registration required. Call 882-0645.

Wednesday, March 31

INSTRUCTIONAL TECHNOLOGY SEMINAR: Humanities librarians Anne Barker, Mike Muchow, and Martha Shirky will present "The Virtual Library for the Humanities" from 3-5 p.m. in 305 Hill Hall. Registration required, call 882-0645.

Thursday, April 1

ACCOUNTING COURSE: Judy Schulz, accounts payable supervisor for Accounting Services, will present "Basic Form Presentation," a course about preparing vouchers, from 8:30-11 a.m. in the second-floor conference room of Turner Avenue garage. The course will also be held May 6. To register, call 882-2755.

SELF DEFENSE COURSE: Brian Weimer, crime prevention officer with the MU Police

Department, will present "Basic Self Defense" from 9-11 a.m. in S203 Memorial Union. Registration required, call 882-2603.

RADIATION SAFETY COURSE: Bob Theesfeld, health physicist, will present "Radiation Safety at MU for New Radiation Workers" from 1-3:30 p.m. in the Environmental Health and Safety classroom in the Research Park Building. The course is held the first Thursday of each month. To register, call 882-7018.

Exhibits

MUSEUM OF ANTHROPOLOGY: The museum's exhibits focus on Native American cultures and the history and prehistory of Missouri. The museum, located at 100 Swallow Hall, is open 9 a.m.-4 p.m. Monday-Friday.

MUSEUM OF ART AND ARCHAEOLOGY:

Special Exhibits:

• "Icons of Pop" will be on display through June 27

• "Finds from Jewish Ossuary Tombs" is on display through Sept. 12

• "Image and Imagination in African Art" will be on display beginning March 27

• "Jaguar's Realm: Ancient Art from Mexico to Peru" will be on display beginning March 27

• "Buckminster Fuller-Inventions" is on display through April 4

• "Twentieth-Century Sets and Series" is on display through May 9

• "Wrapped Creatures: Animal Mummies from Egypt" is on display through August 29

Ongoing Exhibits:

• "The Saul and Gladys Weinberg Gallery of Ancient Art"

• "Early Christian and Byzantine Gallery"

• "The Aesthetic Energy of the Twentieth Century"

The museum, located in Pickard Hall, is open from 9 a.m.-5 p.m. Tuesday-Friday, 6-9 p.m. Thursday and noon-5 p.m. Saturday and Sunday.

STATE HISTORICAL SOCIETY: "Decades: 1899 to 1969, Editorial Cartoons" is on display in the east-west corridor. The corridors are open from 8 a.m.-4:30 p.m. Monday-Friday and 9 a.m.-4:30 p.m. Saturday.

UNIVERSITY ARCHIVES: Several exhibits of historic photographs are available through the archives' web site:

• "Meet Me At the Union," the construction, dedication and growth of Memorial Union

• "Getting Physical," early photos of MU women's athletics

• "Mizzourah!" the early years of MU football

• "Cows on the Lawn," the early days of dairy science at Mizzou

• "Mizzou From the Air: 1919"

• "Come On Home Tigers," early MU homecomings

• "Dramatic Images," photos of MU theatrical productions from the 1920s to the 1940s

• "Significant Dates in the History of MU"

• "Mizzou History Trivia Quiz"

The archives' web site is at :

<http://www.system.missouri.edu/archives>

BINGHAM GALLERY: "Visual Decibels," an exhibition of works by the graduating seniors in the bachelor of arts and bachelor of fine arts degree programs, is on display through April 16. A reception will be held April 2 from 4-6 p.m. The gallery, located in A125 Fine Arts, is open from 10 a.m.-4 p.m. Monday-Friday.

BRADY COMMONS GALLERY:

• "Women in the Arts 1999," an exhibit featuring the works from women artists living in Missouri in honor of Women's History Month, is on display through March 18.

• Works in fibers by Patti Shanks will be on display March 29-April 8.

The gallery is located in 203 Brady Commons. Gallery hours are Mon.-Fri. 10 a.m.- 5 p.m., Sat. 10 a.m.-3:30 p.m., and Sun. 1 p.m.-6:30 p.m.

LAW LIBRARY EXHIBIT: "Women: Putting Our Stamp on America" is on display

through March 27 in the library, located in Hulston Hall.

WOMEN'S HISTORY MONTH EXHIBITS:

• "The Ear of the Soul is Ever Awake," an exhibit on the life and work of Laura Redden Searing, a deaf poet, journalist and author, is on display in the reading room of the Western Historical Manuscript Collection in 23 Ellis Library through March 31.

• "The Women's Movement In Our Own Backyard: An Archival Exhibit of Columbia's Feminist Organizations from the 1970s and the 1980s" is on display through March 19 in the Davis Art Gallery at Stephens College. The gallery is open 10 a.m.-4 p.m. Monday to Friday.

• "Women Photographers of Jazz," is on display through April 3 in the downtown lobby of Boone County National Bank.

Films

Friday, March 19

SPANISH FILM SERIES: *Un Senor Muy Viejo* will be shown at 4 p.m. in Ellis Auditorium.

Friday, April 2

SPANISH FILM SERIES: *Carne Tremula* will be shown at 4 p.m. in Ellis Auditorium.

Lectures

Thursday, March 18

INTERNATIONAL AFFAIRS SEMINAR:

Harold Breimeyer, professor emeritus of agricultural economics, will present "Is it Globalization or Industrial Colonialism? How to Interpret the World Economy" at noon in S16 Memorial Union. A brown-bag lunch will begin at 11:40 a.m.

ECONOMICS LECTURE: Gaetano Antinolfi from Washington University will present "On Domestic Financial Market Frictions: Unrestricted International Capital Flows and Crises in Small Open Economies" from 3:30-5:30 p.m. in 129 Professional Building.

NUTRITIONAL SCIENCES SEMINAR: Ann Smith from the division of molecular biology and biochemistry at UM-Kansas City will present "Cellular Protection Mechanisms Against Extracellular Heme" at 4 p.m. in 209 Gwynn Hall.

ART HISTORY LECTURE: Pamela Sheingorn from Baruch College will present "The Familial Gaze and the Shaping of the Late Medieval Family" at 5 p.m. in 106 Pickard Hall.

HEART-CARE COURSE: Hearts for Life, a support group for anyone interested in heart care, is sponsoring a seminar critiquing current weight-loss programs and providing recommendations by a registered dietitian. The seminar will be held at 7 p.m. in the Main Street Conference Room at University Hospital and Clinics.

Friday, March 19

PHILOSOPHY LECTURE: David Velleman, professor of philosophy at the University of Michigan, will present "On the Aim of Belief" at 2 p.m. in 318 General Classroom Building.

FORESTRY SEMINAR: Mike Gold, research associate professor of forestry, will present "Agroforestry's Role in Curbing Tropical Disasters" at 3 p.m. in 210 Natural Resources Building.

CHEMISTRY COLLOQUIUM: Kenneth Poeppelmeier from Northwestern University will present "New Transparent Conductors" at 4 p.m. in 114 Physics.

Monday, March 22

PHARMACOLOGY SEMINAR: Carlo Brugnara, associate professor of pathology at Harvard University Medical School, will present "Ion Transport in Sickle Cell Disease" at 11 a.m. in M558 Medical Sciences Building.

Friday, March 26

MICROBIOLOGY SEMINAR: Donald Woods from the University of Calgary Health Sciences Centre will present "Pathogenesis of Melioidosis" at 1:15 p.m. in M615 Medical Sciences Building.

Monday, March 29

PHARMACOLOGY SEMINAR: Glenn Dryhurst, professor and chair of chemistry and biochemistry at the University of Oklahoma, will present "Potential Roles of Glutathione, Cysteine, Dopamine, and Oxygen Radicals in the Pathogenesis of Parkinson's Disease" at 11 a.m. in M558 Medical Sciences Building.

BIOCHEMISTRY SEMINAR: Cynthia Stauffacher, professor of biological sciences at Purdue University, will present "Powering the ABC Transporter-The Structure of the RBsA ATO Binding Cassette" at 3:40 p.m. in S255 School of Nursing.

SOIL AND WATER RESOURCES SEMINAR: Joseph Polacco, professor of biochemistry, will present "Cytokinin Production by a Common Soil Bacterium" at 4 p.m. in 123 Natural Resources Building.

ART HISTORY SYMPOSIUM: "Matisse and Picasso: An Interdisciplinary Symposium on Modernist Painting in France," featuring Mark Antliff and Patricia Leighton from Duke University, Tom Quirk, professor of English, and Eli Zaretsky, associate professor of history, will be held from 4:30-7 p.m. in 106 Pickard Hall.

Tuesday, March 30

BIOLOGICAL SCIENCES SEMINAR: Peter Devreotes from Johns Hopkins

University will present "How Cells Sense Chemical Gradients" at 3:30 p.m. in 18 Tucker Hall.

Wednesday, March 31

WRITING INTENSIVE DISCUSSIONS: Bob Bender, professor of English, and Chris Fulcher, research assistant professor of agricultural economics, will join Campus Writing Program staff in a discussion on the influence that technology has had on student writing from 9-10 a.m. in 325 General Classroom Building. A light breakfast will be served. RSVP to Andy White at 882-1795 or e-mail: andy@missouri.edu.

CARDIOVASCULAR RESEARCH SEMINAR: Larry Stoner, professor of physiology at the State University of New York Science Center, will present "Maxi K Channels: Their Involvement in Renal Potassium Adaptation" at noon in 133 Dalton Cardiovascular Research Center.

MIDDAY GALLERY EVENT: Artist Christine Doerr will present "Christine Doerr on Pop Art" at 12:15 p.m. in the Museum of Art and Archaeology.

Thursday, April 1

NUTRITIONAL SCIENCES SEMINAR: Hui Zhao from the University of Minnesota will present "Zinc Uptake and its Transcriptional Regulation" at 4 p.m. in 209 Gwynn Hall.

Friday, April 2

ECONOMICS LECTURE: William Barnett, professor of economics at Washington University, will present "Technology Modeling: Curvature is not Sufficient for Regularity" from 3-5 p.m. in 211 Middlebush Hall.

Thursday, April 1

FACULTY COUNCIL: The council will meet at 3:30 p.m. in S203 Memorial Union.

Special Events

Sunday, March 21

CRAFT SHOW: The largest craft show in mid-Missouri will feature more than 300 booths selling items such as folk art, woodwork, pottery and dolls from 11 a.m.-5 p.m. in the Hearnes Center. Cost: \$2 for adults and \$1 for kids ages 6-12.

Tuesday, March 23

GLUCOSE SCREENING: Will be held from 7:30 a.m.-5:30 p.m. at the Health Information Center in Columbia Mall.

Tuesday, March 30

BUSINESS EXPO: The Columbia Chamber of Commerce will sponsor a business expo today from 1-7 p.m. and tomorrow from 9 a.m.-4 p.m. in the Hearnes Center. Tickets are \$3 and can be purchased at the door.

Saturday, March 27

FRIENDS OF THE LIBRARIES MEETING: The annual luncheon meeting of the Friends of the University Libraries and State Historical Society of Missouri Library begins at 11:30 a.m. with a reception in the Great Room of the Reynolds Alumni Center followed by a luncheon at noon. Following the luncheon, author Mary Parker Buckles will give a presentation and sign copies of her book, *Margins: A Naturalist Meets Long Island Sound*. Cost: \$18; to register, call 882-9169.

Wednesday, March 31

WOMEN'S HISTORY MONTH EVENT: Diana's Grove Community members will perform "Retelling Our Stories, Reclaiming Ourselves-Persephone: The Story of Spring" at 7 p.m. in 106 Pickard Hall. A closing reception will follow in the Cast Gallery.

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From Page 1

interdisciplinary research. "If you're going to have interdisciplinary panels they really have to be interdisciplinary," said one MU faculty member. "You can't weight them too heavily towards one discipline." Another faculty member suggested requiring an interdisciplinary aspect in training grants for graduate students.

"I consider my most difficult challenge as the NSF director is to continue the nurturing and maintenance of excellence in disciplines, and at the same time to seize the opportunities that come from interdisciplinary research. It's a real challenge," Colwell said.

One possible solution, she suggested, would be to establish a "post post-doc," program in which young PhD graduates could compete for grants that would pay the scientist's salary, while a university would provide research space.

"It would provide the post-graduate student an opportunity for five, maybe seven, possibly 10 years to really get started with his or her own research, to publish his or her own papers as first author, to develop a portfolio of achievement," Colwell said.

"If we do enough of these, we would do several things at once — change the reward structure, keep the very bright kids in science and engineering, and provide the opportunity to really be creative."

Another priority is to build partnerships between NSF, other granting agencies, industry and state government, Colwell said. "Many governors are now recognizing that science, engineering and technology are fundamental to economic stability and growth."

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205 Brady Commons - 882-4634
contact Kim Dude

Candidates sought for:

**Compliance Officer, Institutional Review Board
University of Missouri-Columbia**

The MU Office of Research is seeking an energetic and experienced individual to serve as Compliance Officer for the Campus Institutional Review Board. The Compliance Officer will monitor research activity that involves humans as subjects and ensure compliance with federally mandated regulations protecting the rights and welfare of the subjects. Additionally, they will serve as Administrator of the Campus Institutional Review Board (IRB) and coordinate IRB review of all nonmedical research involving use of human subjects submitted by faculty staff, and students at the University of Missouri-Columbia. The Compliance Officer will report to the Faculty Fellow in the Office of the Vice Provost for Research.

Minimum qualifications include a master's degree or a combination of education and experience from which comparable knowledge and abilities can be acquired. Preferred qualifications include knowledge of ethics and health law and experience in law, public administration, and research processing. Three to four years experience in research or grant administration is essential. Salary will be competitive.

Applications should be sent to Dr. Tom Thomas, Faculty Fellow, Office of Research, 205 Jesse Hall, University of Missouri, Columbia, MO 65211. Official application must also be made to Human Resource Services, 130 Heinkel Building, Columbia, MO 65211. Reference job vacancy number dc50494. The review of applications will begin on April 1, 1999. Applications will be accepted until the position is filled.

The University of Missouri is an Affirmative Action/ADA institution.

A student success story

Editor's note: The following special report on assessment at MU is reprinted from the winter 1998 issue of Student Life Studies Abstracts.

Evidence of the Quality and Effectiveness of Undergraduate Education at the University of Missouri-Columbia

Last year, three different campus-wide assessments of undergraduate education were conducted at MU. These assessments included (1) administering the Collegiate Assessment of Academic Proficiency (CAAP) examination to a sample of MU seniors, (2) administering the College Outcomes Survey (COS) to a sample of all undergraduates (freshman-senior), and (3) administering the College Student Experiences Questionnaire (CSEQ) to a sample of MU seniors. Taken together, these assessments provide information about students' satisfaction, academic and social experiences, and learning outcomes. The results highlight several strengths of undergraduate education at MU and also identify opportunities for improvement.

The Assessments

During the Winter semester, four modules of the CAAP exam were administered to 311 seniors who began their college careers at MU. Seniors'

CAAP scores, alone and in comparison to the scores of sophomores at other 4-year institutions, provide information about student learning in four areas—writing, mathematics, critical thinking, and science reasoning. The comparison group for the CAAP included approximately 30,000 sophomores from a variety of 4-year institutions ranging from Aquinas College and Wilberforce University to Pennsylvania State University and Purdue University.

As part of an assessment by the Missouri Coordinating Board for Higher Education (CBHE), the COS was mailed to a sample of 1,031 MU undergraduates. Surveys were completed and returned by 299 students—a 29% response rate. Students who returned the surveys were more likely to be seniors (30%) and most (80%) began their college careers at MU. The comparison group included more than 10,000 students at large and moderately large colleges and universities.

In Winter 1998, the CSEQ was mailed

to a random sample of 2,000 seniors who did not receive the COS survey. A total of 640 MU seniors returned the CSEQ—a 32% response rate. Relatively few of the CSEQ respondents also took the CAAP exam. MU seniors who returned the survey tended to be female (63.9%) and native students (68.7%). Slightly less than 50% of the seniors indicated that they planned on attending graduate or professional school. The comparison group for the CSEQ consisted of 5,677 seniors from 21 research universities across the nation. These institutions included 17 Carnegie Research I universities, and 15 of the institutions were public universities. Five universities were classified as highly selective because they had admission rates of less than 40%. Students in the comparison group were more likely to be female (58.3%), and more than 70% indicated they planned on attending graduate or professional school.

Data from the CSEQ may provide the best indicators of institutional effectiveness because of the quality of the MU sample and the appropriateness of the comparison group. Data from the CAAP exam provides the weakest information about student outcomes because some divisions did not widely participate in the senior testing and because the national comparison group consisted of college sophomores. (A comparison group of college seniors should be available for the coming academic year.) Differences between MU students and the national comparison group for the COS may be smaller than differences for the other two assessments because the COS sample included freshmen and sophomores who had completed less than half of their undergraduate education.

The Results

Student Satisfaction

Student satisfaction is an important indicator of the quality of undergraduate education and is an important outcome in its own right because satisfied students tend to report learning more and have higher retention and graduation rates than less satisfied students. The findings from both the CSEQ and COS surveys can be summarized as follows:

■ There were no meaningful differences in levels of satisfaction for MU students and either the CSEQ or COS comparison groups.

■ Students who completed the COS reported substantially greater overall satisfaction than the comparison group, but were comparatively less satisfied with the institution's concern for them as individuals.

Academic Experiences

Research has consistently found that student learning outcomes are strongly influenced by the quality of students' academic involvement. Both the CSEQ and COS included a variety of questions designed to elicit information about students' perceptions of the quality of their academic experiences. The findings from the CSEQ and COS can be

summarized as follows:

■ MU seniors reported substantially higher levels of academic involvement than did seniors at other research universities in the areas of course learning, writing, and science and technology. Moreover, higher levels of involvement were most pronounced for those questions dealing with more sophisticated types of involvement (e.g., integration of information from a variety of sources).

■ MU seniors also reported substantially higher levels of involvement with faculty than did seniors at other research universities, particularly for questions focusing on less sophisticated types of involvement (e.g., discussing course assignments with an instructor). Similarly, students who completed the COS rated the availability of faculty above the comparison group average, but rated their satisfaction with faculty contact outside of class well below the comparison group average.

■ MU seniors reported substantially lower ratings of the quality of the academic environment than did seniors at other research universities. Lower ratings were most pronounced for emphasis on scholarship and critical thinking, as well as the practical value of courses. Students who completed the COS also rated the quality of instruction lower than did students at other large and moderately large colleges and universities.

Social Experiences

The quality of students' social experiences have important implications for their satisfaction with college, as well as their perceptions of learning and development. Both the CSEQ and COS surveys provided information about students' perceptions of the quality of their co-curricular experiences. The findings from both surveys can be summarized as follows:

■ MU seniors who completed the CSEQ reported substantially higher levels of involvement in clubs and organizations than did seniors in the national comparison group. In addition, MU seniors reported engaging in a wider range of conversations and those conversations tended to be more intellectually oriented than the conversations of seniors from other research universities.

■ MU seniors did not report having higher levels of interaction with diverse groups of students than did seniors at other research universities. This finding was largely attributable to relatively low levels of interaction with students from different ethnic groups and different countries.

■ MU seniors did report that the institution had a more positive and supportive interpersonal environment than comparison-group institutions. This finding was paralleled by results from the COS where MU students reported very high levels of satisfaction with their social involvement.

Learning Outcomes

Enhancing student learning is fundamental to MU's mission, and all three assessments provided important information about the gains made by MU students. Results for both content (e.g., general education, math and science) and process (e.g., critical thinking and writing)

Assessment Means for MU Students and Comparison Groups

ASSESSMENT MEASURE*	MU MEAN	COMPARISON MEAN
Satisfaction (CSEQ)	3.13	3.17
Satisfaction (COS)	3.60	3.59
Academic Involvement		
Course Learning (CSEQ)	3.23	3.08
Writing Experiences (CSEQ)	2.73	2.58
Experiences in Science (CSEQ)	2.25	1.99
Experiences with Faculty (CSEQ)	2.08	1.95
Quality of the Academic Environment (CSEQ)	4.56	4.72
Satisfaction with Academic Experiences (COS)	3.62	3.61
Social Involvement		
Involvement in Clubs & Organizations (CSEQ)	2.04	1.84
Student Acquaintances (CSEQ)	2.52	2.49
Topics of Conversations (CSEQ)	2.50	2.39
Information in Conversations (CSEQ)	2.56	2.44
Quality of the Interpersonal Environment (CSEQ)	4.56	4.72
Satisfaction with Social Involvement (COS)	3.84	3.39
Learning Outcomes - General Education		
General Education (CSEQ)	2.40	2.51
General Education (COS)	3.42	3.34
Writing (CAAP)	67.30	64.40
Mathematics (CAAP)	58.80	57.90
Learning Outcomes - Intellectual Development		
Intellectual Development (CSEQ)	2.64	2.42
Intellectual Development (COS)	3.67	3.64
Critical Thinking (CAAP)	65.60	62.60
Learning Outcomes - Science and Technology		
Science & Technology (CSEQ)	2.91	2.94
Science Reasoning (COS)	3.30	3.08
Science Reasoning (CAAP)	62.60	60.60
Learning Outcomes - Career Development		
Career Development (CSEQ)	2.91	2.78
Career Development (COS)	3.44	3.39

* All CSEQ questions are measured on 4-point scales except quality of the academic and interpersonal environments which are measured on 7-point scales. All COS questions are measured on 5-point scales. CAAP subscores are measured on scales ranging from 40 to 80, with theoretical means of 60.

Continued from Page 8

outcomes are summarized below:

■ Overall, MU students did not report making greater gains in general education than students in the CSEQ and COS comparison groups. Writing was a clear exception to this general trend. Both MU CAAP scores and CSEQ gain scores for writing were well above averages for the comparison groups. Offsetting higher than average writing gains on the CSEQ, MU students reported that their gains in understanding history, different cultures, and different parts of the world were substantially below national averages.

■ MU students' critical thinking scores on the CAAP exam were also substantially higher than scores for the comparison group. Similar results were found for gains in intellectual skills on the CSEQ, but not the COS. The absence of substantial differences for the COS may be attributable to the fact that the COS sample included first- and second-year students.

■ MU students' CAAP science reasoning scores, as well as reported science gains on the COS, were well above comparison group averages. In contrast, mean gain in science and technology on the CSEQ was not substantively different from the comparison group average. In some ways

this last result may be misleading. While few MU students reported making substantial gains in science and technology, most reported making at least some gains. For the comparison group, responses tended to be bimodal. Students reported either making substantial gains, or making little or no gains in science.

■ In the area of career development, MU students reported making somewhat greater gains than did students in the comparison groups. These differences were most pronounced for seniors responding to the CSEQ.

Conclusions

While attempting to synthesize the results of three very disparate assessments proved to be a difficult task, we found that the consistency of some results across the three assessments provided clear evidence of the strengths and weaknesses of undergraduate education at MU.

Strengths

■ A clear strength of undergraduate education at MU is its writing program. Scores on the CAAP writing module were substantially higher for MU seniors than for students in the comparison group. Likewise, MU seniors reported substantially greater experience in writing and greater gains in writing than did

seniors at other research universities. The superiority of MU's writing program is also underscored by seniors' reports of higher than average effort in writing. The fact that MU students' COS gains in writing were not substantively different from the gains reported by the comparison group may be a function of the fact that first- and second-year students were included in the COS sample. Presumably, these students have had less exposure to the writing program and fewer opportunities to make gains in writing.

■ Another clear strength of undergraduate education at MU is in the area of science and science reasoning. MU seniors scored well above the comparison group mean on the CAAP science reasoning module. Likewise, students who completed the COS were well above the comparison group mean in science reasoning. While MU seniors completing the CSEQ did not report greater average gains in science reasoning, relatively few MU seniors reported making little or no gains in science. MU seniors also reported that their science-related academic experiences were superior to the science experiences of seniors at other research universities.

■ A third strength of undergraduate education at MU is the development of critical thinking abilities. Not only were

MU students' test scores and reported gains well above national averages, MU seniors reported that the intellectual content of their interactions was substantially greater than the intellectual content of the interactions of seniors at other research universities.

■ A fourth strength of undergraduate education at MU is the quality of students' out-of-class experiences. MU seniors reported higher levels of involvement in co-curricular activities and greater satisfaction with their involvement in those activities.

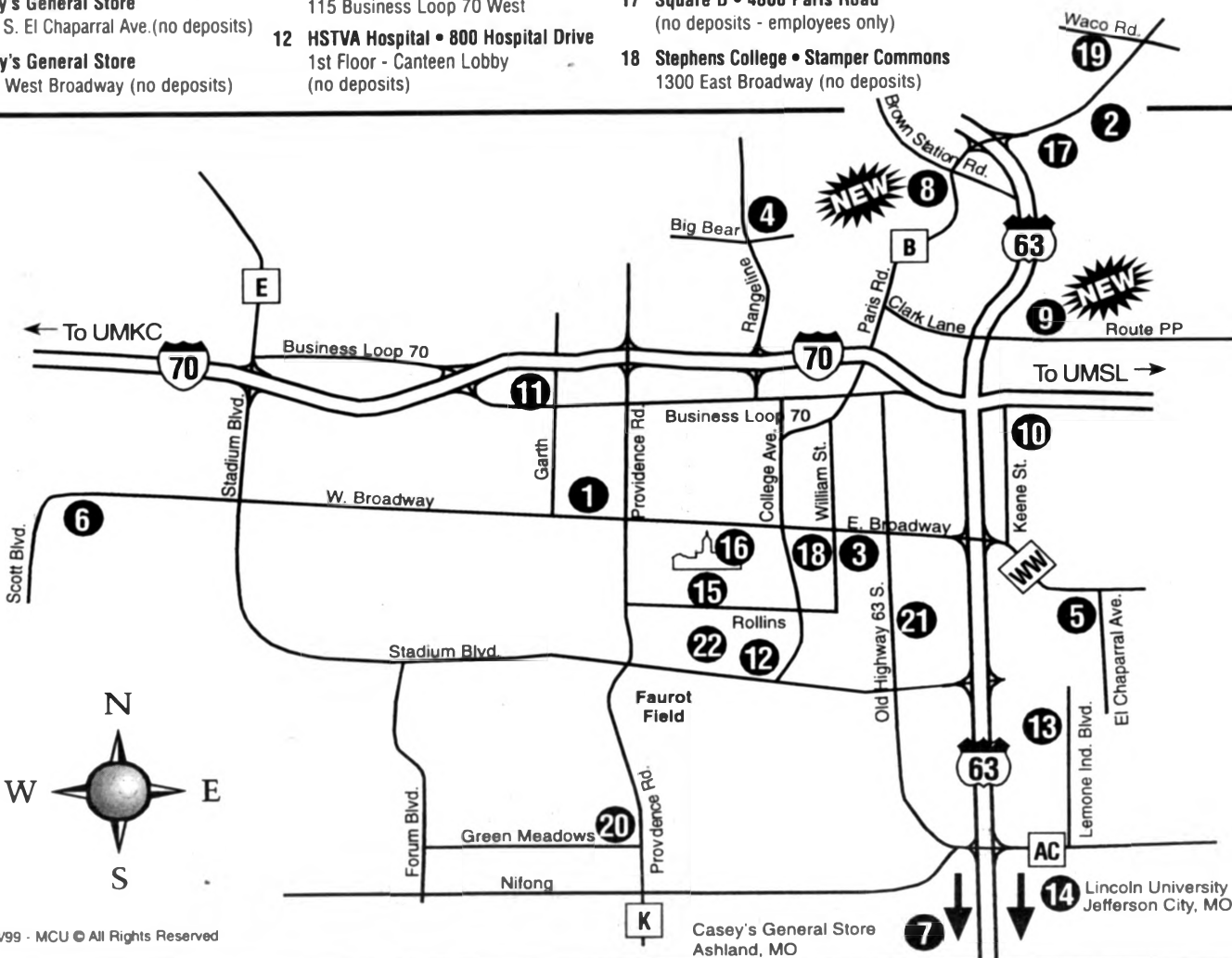
Concerns and Opportunities for Improvement

■ MU has an opportunity to increase its emphasis on diversity by enhancing opportunities for students to interact with students from different ethnic groups and from different countries. MU has made significant strides in diversity education, but much remains to be accomplished. MU may also want to consider placing greater emphasis on learning about history and the world as part of its diversity

See Assessment on Page 10

MCU ATMs

- | | | | |
|--|---|--|--|
| 1 MCU Columbia Office
First & Broadway
2 drive-up & 1 walk-up | 7 Casey's General Store
500 East Broadway
Ashland, MO (no deposits) | 13 Lemone Industrial Park
3209 Lemone Industrial Drive
Drive-up (next to MO Seed Assn) | 19 TEXTRON Automotive Interiors
4000 Waco Road
(no deposits-employees only) |
| 2 3M • 5400 Route B
(no deposits - employees only) | NEW 8 Casey's General Store
3009 Paris Road (no deposits) | 14 Lincoln University
Scruggs Center • Cafeteria Level
Jefferson City, MO (no deposits) | 20 Ultra Mart - Phillips 66 Station
Green Meadows
3101 South Providence Road |
| 3 Boone Hospital Center
1600 East Broadway
(lobby level - near cashier) | NEW 9 Casey's General Store
3509 Clark Lane (no deposits) | 15 MU Campus • Brady Commons
(north side) • Rollins Road | 21 Sportz Fans • 912 Old Hwy. 63 South
(no deposits) |
| 4 Casey's General Store
2520 Rangeline Big Bear Blvd. | 10 Columbia Regional Hospital
404 Keene Street
(outpatient service entrance) | 16 MU Campus • Jesse Hall
Lower Level (no deposits) | 22 University Hospital & Clinics
1 Hospital Drive
(near personnel office) |
| 5 Casey's General Store
1011 S. El Chaparral Ave. (no deposits) | 11 Ellis Fischel Cancer Center
115 Business Loop 70 West | 17 Square D • 4800 Paris Road
(no deposits - employees only) | |
| 6 Casey's General Store
4008 West Broadway (no deposits) | 12 HSTVA Hospital • 800 Hospital Drive
1st Floor - Canteen Lobby
(no deposits) | 18 Stephens College • Stamper Commons
1300 East Broadway (no deposits) | |



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Assessment

From Page 9

education program.

■ Students' relatively negative perceptions of the quality of the academic environment at MU should be viewed with concern. Perceptions of academic quality are a key element in prospective students' decisions to enroll at MU and remain at the institution. Unfortunately, it is not clear why MU seniors hold less positive views of the academic quality of the institution. One possibility to be explored in future research is that students' expectations exceed their experiences. These unrealized expectations, in turn, may cause students to lower their ratings of the academic quality of the institution.

■ More research is needed to better understand MU students' relatively poor achievement in mathematics. Results were generally counter to expectations, but the root causes of poor performance are not clear from these assessments.

The assessment activities conducted last year represent an important step in evaluating the quality and effectiveness of undergraduate education at MU. Clear strengths of undergraduate education at MU are the quality of the writing program and education in the sciences. High levels of involvement and effort in writing and the sciences are paralleled by greater gains in these areas. Another strength of undergraduate education at MU is the quality of students' out-of-class experiences.

MU students report greater involvement in educationally purposeful activities and high levels of interaction about intellectual topics. Not surprisingly, MU students show relatively high levels of gains in intellectual development.

Assessment results also indicate that there are several opportunities for improving undergraduate education at MU. Additional research is needed in each area before specific strategies can be outlined, but the opportunities are clear. First, there is an opportunity for MU to increase its emphasis on diversity education by encouraging majority students to interact with students from different ethnic groups and different countries. Second, there may be additional opportunities for MU to improve the quality of mathematics education. Third, it is important that MU identify ways to enhance students' perceptions of the academic quality of the institution.

In addition to suggesting several opportunities for improving undergraduate education, the three assessment initiatives undertaken last year provide a baseline against which strategic planning and mission enhancement initiatives can be assessed.

Tracking information from MU students over the next several years should provide indications of the success of recent institutional initiatives and may identify additional opportunities to enhance the quality and effectiveness of undergraduate education at MU.



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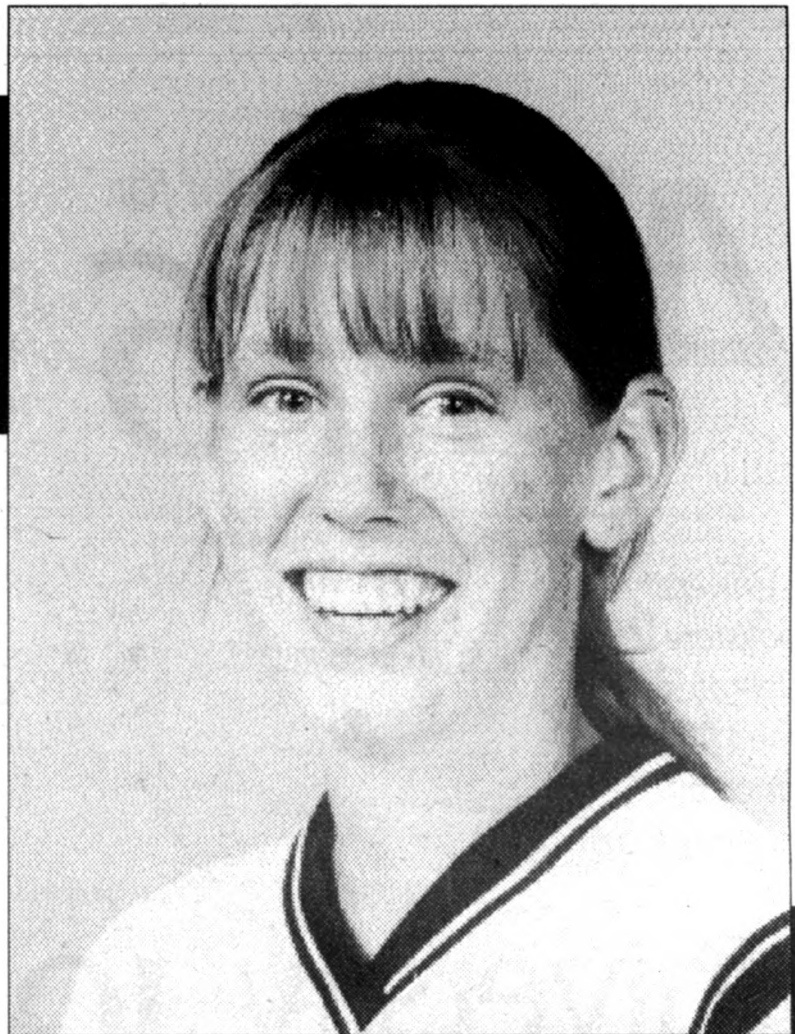
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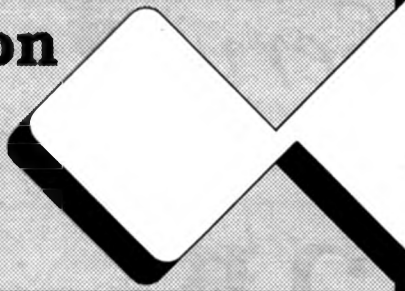
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Content type Text with images
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