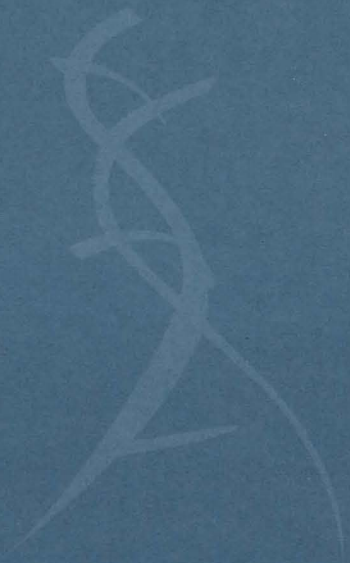
MU LIFE SCIENCES CENTER

DEDICATION AND OPEN HOUSE

SEPTEMBER 17, 2004

UNIVERSITY OF MISSOURI-COLUMBIA



PROGRAM

PROGRAM

1:30 p.m. **Ribbon Cutting (Main Entrance)**

1:50 p.m. **Media Interaction (First Floor Reading Room)**

2:15 p.m. **Speakers (Monsanto Auditorium)**

Brady Deaton, Interim Chancellor
Elson Floyd, President, University of Missouri System
R. Michael Roberts, Director, Life Sciences Center
Michael Gerau, senior, microbiology
Amanda Cully Brodeur, first year, medicine
The Honorable Bob Holden, Governor
The Honorable Christopher S. "Kit" Bond, U.S. Senator
The Honorable Sean O'Keefe, NASA Administrator

2:45 p.m. **Awards Presentation (Monsanto Auditorium)**

Presenter: Mary James, president, Board of Curators
Reader: John Gardner, associate dean for research, College of Agriculture, Food and Natural Resources
Richard L. Wallace, chancellor emeritus
Roger Mitchell, dean emeritus, College of Agriculture, Food and Natural Resources
Tom Payne, vice chancellor for agriculture and dean of College of Agriculture, Food and Natural Resources
Michael Chippendale, senior associate director, Life Sciences Center
Blake Dinsdale, graphic designer, publications
Robert Simmons, university architect
Bobb Swanson, facilities project manager, architecture
Dwight Hubert, construction engineer, project manager
BNIM Architects (Casey Cassias accepting)
Anshen + Allen Architects (Greg Blackburn accepting)
Research Facilities Design Architects (Rick Heinz accepting)
MU Planning, Design, & Construction (Larry Hubbard accepting)
MU Energy Management Office (Paul Hoemann accepting)
MU Information & Access Technology Services (Gary Allen accepting)
MU Academic Support Center (David Dunkin accepting)
MU Environmental Health & Safety (Peter Ashbrook accepting)

3:15 p.m. **Ribbon Cuttings for Named Areas**

3:15 p.m. **Monsanto Auditorium**
3:30 p.m. **MO-AG Industries Plaza**
3:45 p.m. **MFA Incorporated Gateway**
4:00 p.m. **Allan and Vivian Purdy Native Tree Collection**
4:15 p.m. **Lowell and Marian Miller Discovery Garden**
4:30 p.m. **Al and Mary Agnes McQuinn Atrium**
4:45 p.m. **Charles W. Gehrke Proteomics Center**

3-5 p.m. **Open House**

Guided Building Tours
(Meet in McQuinn Atrium)

Music & Menus
Mid Mo/Ozarks (Monsanto Foyer)
Kansas City (First Floor Reading Room)
St. Louis (Fifth Floor "Skyview" Conference Room)

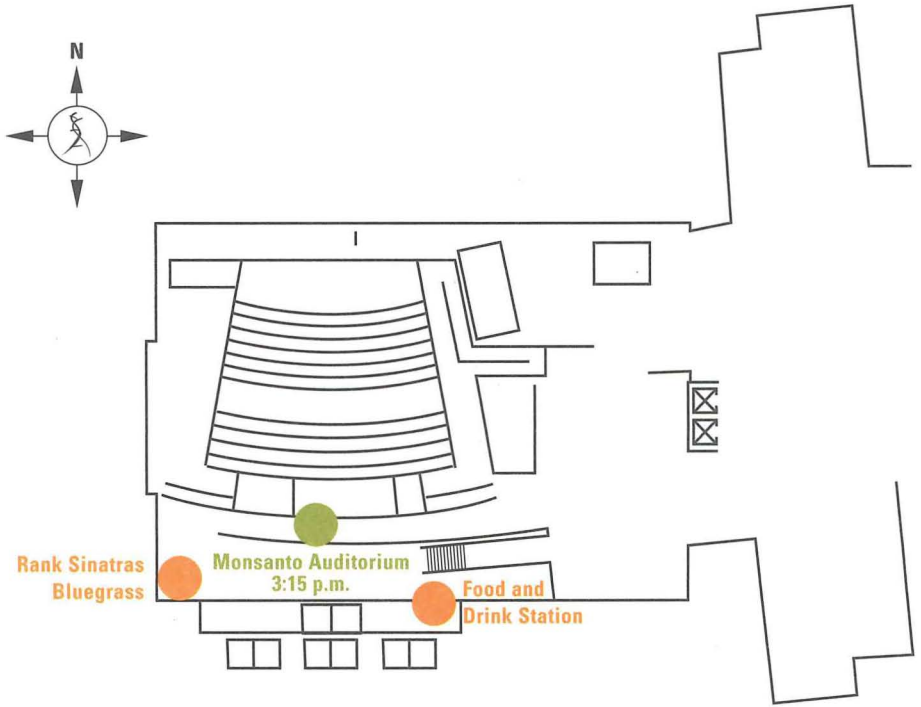
Exhibits

Building Contractor (First Floor Display Lobby)
River City Construction

Architecture Team (First Floor Display Lobby)
BNIM Architects
Anshen + Allen Architects
Research Facilities Design

Moon Rock (2nd floor atrium)

MAPS



LSC GROUND FLOOR

- RIBBON CUTTINGS
- FOOD & ENTERTAINMENT

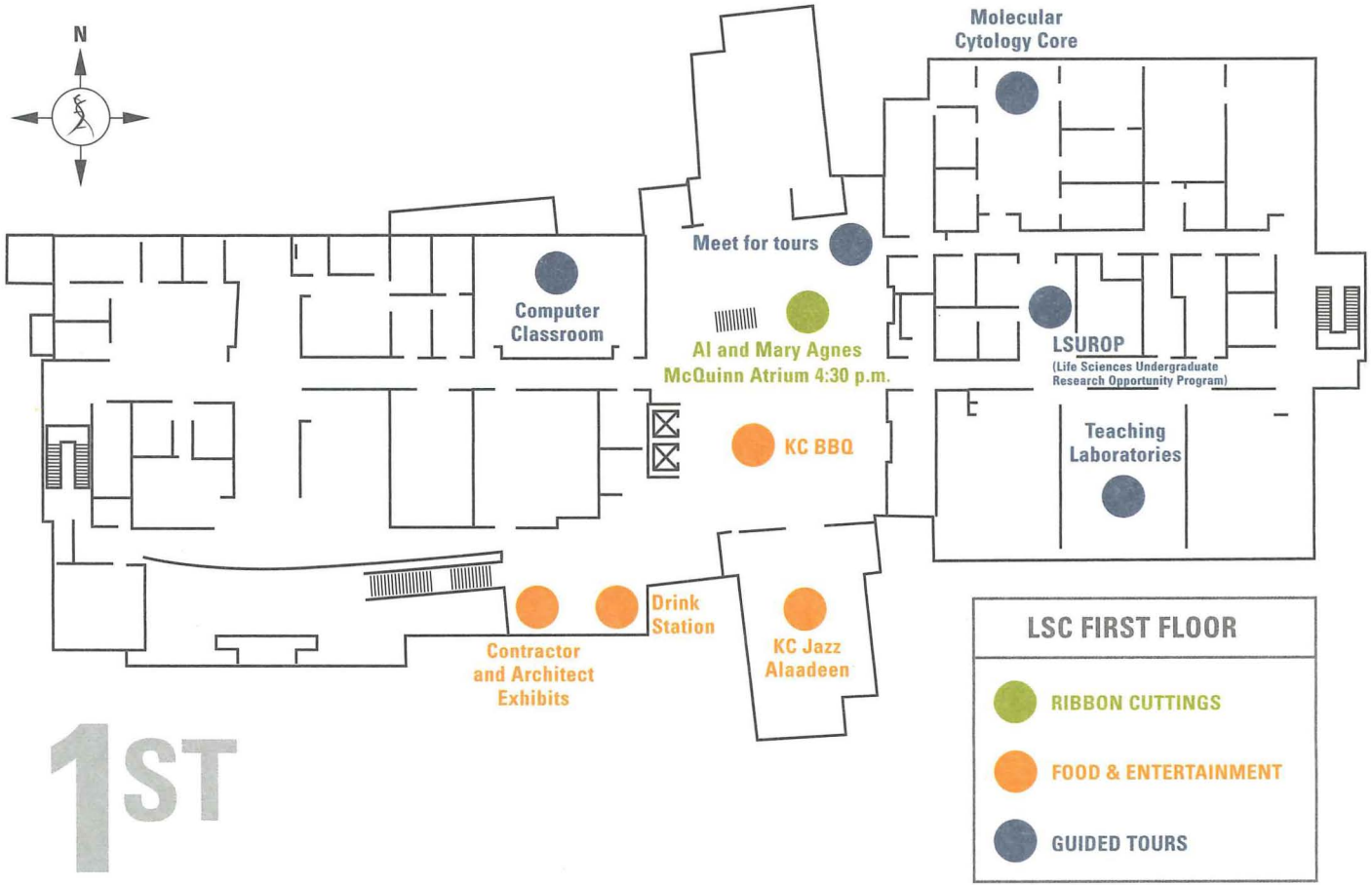
Lowell and Marian Miller Discovery Garden 4:15 p.m.

MO-AG Industries Plaza 3:30 p.m.

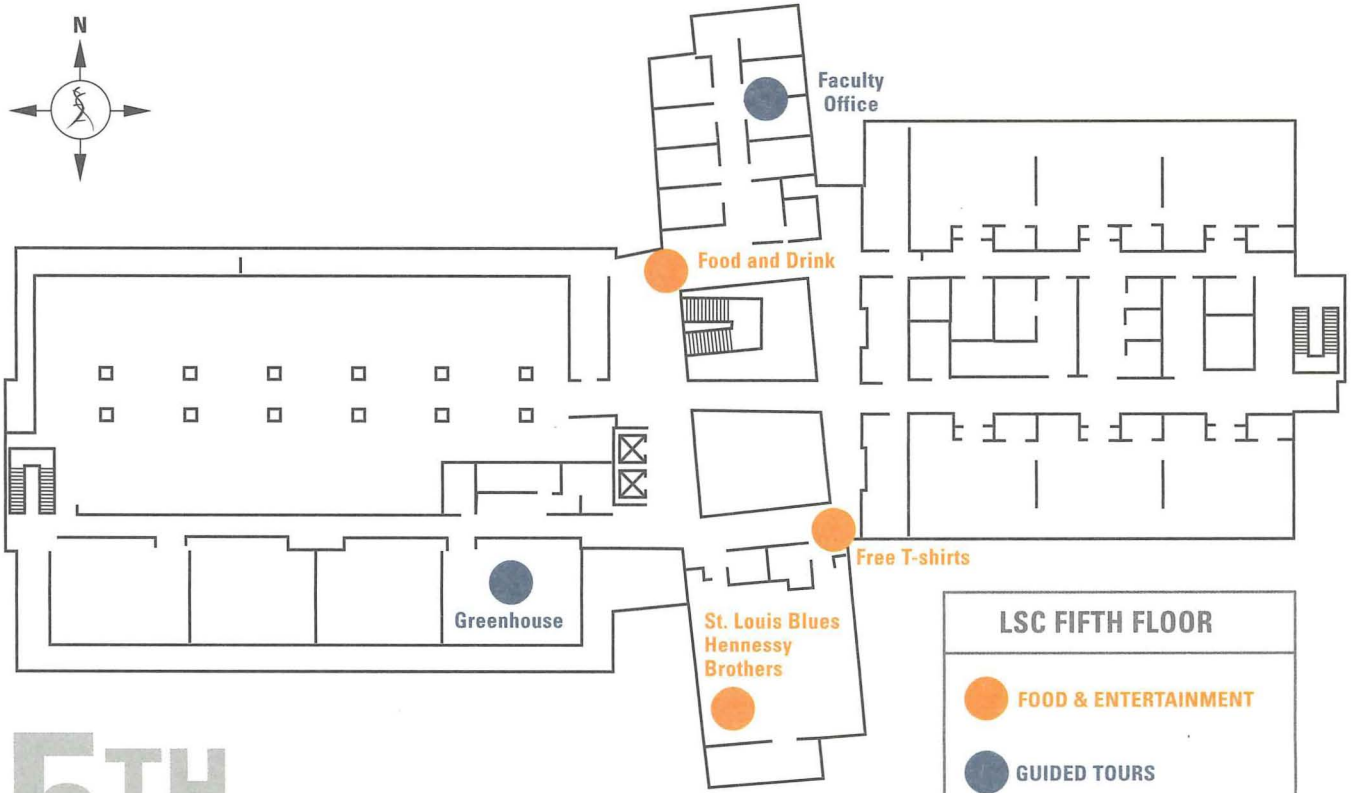
GROUND

MFA Incorporated Gateway 3:45 p.m.

Purdy Native Tree Collection 4 p.m.


N
Molecular Cytology Core
Meet for tours
Computer Classroom
Al and Mary Agnes McQuinn Atrium 4:30 p.m.
LSUROP
(Life Sciences Undergraduate Research Opportunity Program)
KC BBQ
Teaching Laboratories
Drink Station
Contractor and Architect Exhibits
KC Jazz Alaadeen
1ST
LSC FIRST FLOOR
RIBBON CUTTINGS
FOOD & ENTERTAINMENT
GUIDED TOURS


N
Charles W. Gehrke
Proteomics Center
DNA Core
Facility
Charles W. Gehrke
Proteomics Center 4:45 p.m.
Moon Rock Exhibit
General
Laboratory
2ND
LSC SECOND FLOOR
RIBBON CUTTINGS
FOOD & ENTERTAINMENT
GUIDED TOURS


N
Faculty Office
Food and Drink
Free T-shirts
Greenhouse
St. Louis Blues Hennessy Brothers
LSC FIFTH FLOOR
FOOD & ENTERTAINMENT
GUIDED TOURS

5TH

ABOUT THE LSC

ABOUT THE LSC

The Life Sciences Center will serve as a hub for life sciences research and education across the entire campus. The LSC itself will provide about 134,000 assignable square feet for about 40 faculty to conduct research in interdisciplinary clusters and for undergraduate teaching and computer laboratories. Faculty, staff, students and postdoctoral fellows will conduct research aimed at improving the quality and safety of food, preventing and treating disease, and protecting the environment.

The first $30 million for the building was received from **NASA** through the help of **Sen. Christopher S. Bond.** That was matched by another $30 million from the State of Missouri through the help of the late **Gov. Mel Carnahan** and continued support from **Gov. Bob Holden.**

Message from LSC Director R. Michael Roberts

I took over the "official" reins as Director of the Life Sciences Center on Jan. 1, 2004. At that time, the building was far from finished, and I had real doubts as to whether River City Construction, the main contractors, could ever complete the work by the end of June, let alone to allow occupancy to begin in July. My friend, fellow Yorkshireman and Senior Associate Director, Michael Chippendale, was more optimistic, and his faith was justified. The LSC became property of the University of Missouri on June 15, furniture and equipment began to arrive soon after that, the administrative offices were ready for occupancy around July 20, and the Liscum laboratory performed the inaugural experiments in the building before the end of that month. Today, twelve faculty members from this campus will have moved their groups and their equipment into the building. They join three brand new assistant professors to form the initial group of Life Science Center investigators. By the time the building is fully occupied in 18 months or so, I anticipate there will be a total of about 35 research teams, at least half of whom will be headed by new recruits. The vision for the LSC will have begun to mature.

Last October, I was the third of four candidates interviewed for the position of Director of Life Sciences at the University of Missouri-Columbia.

DID YOU KNOW? In the past four years, the University of Missouri-Columbia has received more research funding from the National Science Foundation than any other higher education institution — public or private — in the state of Missouri.

I had applied somewhat reluctantly and only after a great deal of soul searching because I am passionate about my research and was concerned about whether I had the energy and desire to take on a demanding, high-profile position while maintaining my own scientific endeavors. As the only inside candidate, I had the advantages of understanding the complexities of this campus and knowing many of its faculty. The more I considered the opportunity, I found myself embracing the challenge enthusiastically. I intend to work as vigorously as I can to make life sciences at MU and the Life Sciences Center itself successful. What we, as scientists, achieve or fail to achieve through the use of that building will have a major influence on how well life sciences thrive on this campus and statewide over the next decade.

My vision for the LSC is evolving, as it must if there is to be flexibility in balancing the aspirations of different colleges and departments with the hopes, concerns, and requirements of the investigators themselves. The director is, after all, merely a landlord, overseeing a very special building and with the major role of making sure that building runs well. I believe that the LSC can be a special place for all of us in the life sciences community. It will bring teams of investigators together in adjacent space, but those teams will extend out from the building and across campus and even into the private sector. The very design of the building itself will promote dialog between teams, sharing of ideas and new directions of research. The LSC will not be a place for a scientific introversion. Instead, it will be a welcoming place that we all can enjoy, a campus facility for everyone rather than an isolated research institute. The LSC is the venue for departmental seminars, conferences and campuswide events, such as Life Sciences Week. It is the organizational focus for undergraduate research in the life sciences. The building includes undergraduate teaching laboratories, and is the home of three molecular biology service laboratories (Proteomics Center, Molecular Cytology Core, and the DNA Core). The open plan of the

DID YOU KNOW? Life sciences research at the University of Missouri-Columbia dates to the 1870s and includes the first-ever research on soil erosion; saving the nation's wheat crop from rust disease in the 1950s; discoveries in the 1970s that resulted in home dialysis for kidney patients; the first pediatric angioplasty to correct heart defects in babies in 1983; and a myriad of discoveries in recent decades that benefit human and animal health, world food supply and the environment.

entire building, its use of natural light, the many meeting rooms, and the spaciousness of the ground floor and atrium will make the LSC an agreeable place to visit, discuss ideas and conduct science in a collegial environment.

The LSC has quickly evolved from a shell of a building to a working, living center of intellectual activity. I continue to marvel that computers work when hooked into the data ports, that growth chambers light up and that cold rooms cool. Above all, I am overwhelmed by the dedication, good will and efforts of the individuals who are not themselves part of the center but who want it to be successful. There are too many to list, but they include janitorial staff, information technologists, landscapers, food services personnel, campus construction workers and numerous others. Thank you, too, to the investigators who have been willing to take a leap of faith and to the members of the administrative team who have given me so much support during a very busy and often stressful period. We are off to an excellent start. Those who dreamt the original concept of LSC, including our political allies and donors, need not be concerned. The LSC will meet its aspirations.

R. Michael Roberts
Director, Life Sciences Center

DID YOU KNOW? MU is one of only 34 public U. S. universities, and the only public institution in Missouri, to be selected for membership in the Association of American Universities. AAU members are distinguished by the breadth and quality of their research and graduate education programs. The other AAU member in Missouri is Washington University. MU is also designated "Doctoral/Research Extensive" by the prestigious Carnegie Foundation for the Advancement of Teaching.

What Missourians will see in the future through enhanced investment in the life sciences:

- Food products that contribute to healthful lifestyles and new treatments for disease.
- Edible, natural medicines made of healthful plants to protect people from illnesses.
- Advances in understanding the relationship between medicine, plants and human health.
- Research-based information about how exercise can improve cardiovascular function and reduce the incidence of diabetes.
- Increased understanding of the origin of cancer, and the development of new diagnostic tools and therapies.
- Acceleration of development of new vaccine candidates to protect humans and animals from infectious diseases.
- Agricultural crops that require fewer chemical inputs.
- Plants with improved resistance to drought and other environmental stress.
- Reduced dependence on foreign-source petroleum through new biobased products.
- Environmental benefits through the use of bioremediation to solve soil contamination.

DID YOU KNOW? Thousands of Missourians benefit every year from the innovation of University faculty researchers through the efforts of extension specialists. Whether it's through training academies for community leaders, workshops on health issues, or planting advice for higher crop yields, Missourians reap significant rewards from the University's collective brainpower.

SPEAKERS

SPEAKERS

Brady Deaton, Interim Chancellor, University of Missouri-Columbia

Before accepting the position of interim chancellor, Brady Deaton was provost and executive vice chancellor for academic affairs at the University of Missouri-Columbia. Previously, he served as chief of staff and deputy chancellor. Deaton joined the faculty in 1989 as a department chair and professor of agricultural economics. He became provost in 1998.

Deaton earned a bachelor of science in agricultural economics and a master of arts in diplomacy and international commerce from the University of Kentucky. He received a doctorate in agricultural economics from the University of Wisconsin. Deaton also is the author of more than 100 publications, including several books.

Before coming to MU, Deaton was assistant and associate professor in the Department of Agricultural Economics and Rural Sociology at the University of Tennessee and then associate director of the office of international development at Virginia Polytechnic Institute and State University. In 1978 he served as staff director of the Special Task Force on Food for Peace with the U.S. Department of Agriculture. His extensive international experience includes teaching vocational agriculture in the Thai language.

Elson Floyd, President, University of Missouri System

Elson Floyd was selected as president of the University of Missouri System on Nov. 11, 2002.

Prior to his appointment at the UM System, Floyd served as president of Western Michigan University in Kalamazoo. While president of Western Michigan University, he also was a tenured faculty member in the Department of Counselor Education and Counseling Psychology and in the Department of Teaching, Learning and Leadership.

Floyd began his career in 1978 at the University of North Carolina at Chapel Hill where he held deanships in the division of student affairs, the General College and the College of Arts and Sciences. From 1988 to 1990, he was assistant vice president for student services for the 16-campus University of North Carolina System.

A native of Henderson, N.C., Floyd holds a bachelor of arts in political science and speech, a master of education in adult education and a doctorate in higher and adult education, all from the University of North Carolina at Chapel Hill.

Among other honors, Floyd received the 2004 James C. Kirkpatrick Award, given by the Northwest Missouri Press Association for public service.

R. Michael Roberts, Director, Life Sciences Center

Michael Roberts has been an MU professor of biochemistry and animal sciences for 18 years and was elected chair of the veterinary pathobiology department in 1995. He became chief scientist with the National Research Initiative of the U.S. Department of Agriculture on a half-time basis in 1998 and returned to full-time teaching and research in 2000.

Roberts earned a bachelor's degree in botany and a doctoral degree in plant physiology and biochemistry from Oxford University in England. During his 30 years of research, he has made several notable discoveries and findings, including the description of the proteins, produced by embryos, that regulate early pregnancy in cattle and sheep. In 2004 that accomplishment won him the prestigious Wolf Prize, often regarded as the Nobel Prize of agriculture.

Roberts has earned many awards for his contributions to science, including Researcher of the Year from MU, the Von Humboldt award for agriculture and an honorary doctorate from the University of Liege in Belgium. In 1996 he was elected to the National Academy of Sciences. In 2003, he was appointed to lead the National Academy's review of the National Zoo in Washington, D.C.

Michael Gerau, senior, microbiology

Michael Gerau, a Columbia native and graduate of Hickman High School is pursuing a dual major in medicinal chemistry and microbiology. He has worked as a research assistant for the past two years with faculty mentor Georgia Davis on maize genetics projects.

Michael was selected as a University of Missouri-Columbia student ambassador to the state legislature to present a poster and an informal talk about the impact of undergraduate research on the college experience. He was featured in an article in the Fall 2003 issue of *Illumination* magazine that showcased the research projects of four undergraduates. Even before he graduates, Michael already has eleven research poster presentations and abstracts and a couple of seminar presentations to his credit.

DID YOU KNOW? MU is home to the world's most powerful university research nuclear reactor, one of the largest producers in the nation of radioisotopes used in the diagnosis and treatment of cancer. The reactor also plays an important role in the development of new tools for imaging which allow earlier and more precise detection of disease.

Michael is a teaching assistant for Chemistry 15: Atoms and Molecules. His career goal is to receive his MBA and pursue a career in strategic planning or project management for a biotech corporation.

Amanda Cully Brodeur, first year, medicine

You may remember Amanda Cully as the student who spoke at the groundbreaking ceremony for the Life Sciences Center in September 2001. Amanda graduated from MU with a bachelor of science in biochemistry and recently married a resident at University Hospital in the radiology department. She is currently in her first year of medical school at MU and is completing her doctorate in biochemistry.

Originally from Springfield, Mo., Amanda has demonstrated leadership in many volunteer and community activities. As an undergraduate, Amanda was awarded a Howard Hughes Research Internship and was a Conley Scholar. She has received an NIH Fellowship Training Grant, the Huggins Graduate Research Fellowship, and the E.L. Priest Medical Student Scholarship, among others. She has gained the majority of her research experience in Charlotte Phillips' laboratory investigating the role of Type I Collagen in fibrotic kidney disease and has already produced several publications and poster presentations on the subject.

Once finished with school, Amanda hopes to pursue a residency in pediatrics followed by a fellowship in medical genetics.

The Honorable Bob Holden, Missouri Governor

Bob Holden was sworn in as Missouri's 53rd governor on Jan. 8, 2001.

Under his leadership, Missouri passed an education accountability bill, initiated a character education program and provided millions of dollars for university research.

Holden led efforts to provide a prescription drug plan for Missouri seniors. He also has worked to protect Missouri children through MC+ for Kids, part of the Children's Health Insurance Program, which provides health care for low-income children.

With Holden as governor, Missouri was the first state in the nation to name a homeland security director following the terrorist attacks of Sept. 11. This resulted in increased federal funding for homeland protection efforts in Missouri and an improved security response system for all Missourians.

Born in Kansas City, Mo., but raised on a small farm in the Ozarks, Holden attended a one-room school and went on to graduate from Southwest Missouri State University with a degree in political science. He

attended the John F. Kennedy School of Government at Harvard University. Holden is the immediate past president of the Midwestern Governors' Conference, where he has focused efforts on promoting a life sciences coalition of Midwestern universities and industries.

The Honorable Christopher S. "Kit" Bond, U.S. Senator

Born in St. Louis in 1939, Christopher S. "Kit" Bond is a sixth-generation Missourian. He grew up in Mexico, Mo., where he still resides.

Bond graduated from Princeton University in 1960 and received a law degree from the University of Virginia, where he graduated first in his class. He became the 47th governor of Missouri on Jan. 8, 1973. At age 33, he was the youngest governor in Missouri history. Bond was re-elected in 1980. Among his greatest accomplishments as governor was taking the Parents as Teachers program statewide.

After his second term as governor, Bond continued his service to Missouri in the U.S. Senate, where he has built a reputation as a backer of literacy programs and efforts to make health care more accessible. A supporter of law enforcement and a strong military, Bond also serves on the Senate Select Intelligence Committee. He is the chairman of the appropriations subcommittee that funds the nation's housing and veterans' needs. At the federal level, Bond has worked to ensure that Missouri remains at the forefront of biotechnology research.

The Honorable Sean O'Keefe, NASA Administrator

Sean O'Keefe became the 10th administrator of the National Aeronautics and Space Administration on Dec. 21, 2001.

O'Keefe entered public service in 1978 as a presidential management intern. In 1989, he joined Secretary of Defense Dick Cheney's Pentagon management team, where he served as comptroller and chief financial officer of the Department of Defense. President George Bush appointed him Secretary of the Navy in 1992. O'Keefe later served George W. Bush as deputy director of the Office of Management and Budget before accepting the NASA appointment.

O'Keefe is a fellow of the National Academy of Public Administration and the International Academy of Astronautics. In 1993 President Bush and Secretary Cheney presented him with the Distinguished Public Service Award. O'Keefe received the Department of the Navy's Public Service Award in 2000.

O'Keefe earned a bachelor of arts from Loyola University and a master of public administration from Syracuse University.

AWARDEES

AWARD RECIPIENTS

Richard L. Wallace

In 1997, Richard L. Wallace was appointed chancellor of the University of Missouri-Columbia, his campus home since 1966 when he joined the economics department faculty. Prior to serving as chancellor, he was vice president for academic affairs at the UM System. His leadership of MU has been notable for strategic planning; an open budget process; the fastest growth rate in federal research support among public institutions in the Association of American Universities; a focus on the life sciences; increases in the size, academic accomplishment and diversity of entering classes; significant growth in private fund raising; and partnerships with other institutions.

Wallace has always taken a particular interest in the development of life sciences research and education at MU. Early in his tenure as chancellor, he revived an earlier planning effort for an interdisciplinary science research facility. His leadership, enthusiasm and commitment to this project were vital in making the Life Sciences Center a reality.

Roger Mitchell

Roger Mitchell began his affiliation with MU in 1969 as professor and chair of the agronomy department. In 1983, he was named dean of the College of Agriculture, which later became the College of Agriculture, Food and Natural Resources. During his tenure as dean, Mitchell was known for his collaborative planning efforts and vision for moving his college and MU into the national limelight. One of his key efforts was the establishment in 1985 of the Food for the 21st Century program (F21C), one of the earliest interdisciplinary campus programs designed to stimulate research to improve food, fiber, nutrition and health.

With campuswide interdisciplinary programs such as F21C and the Molecular Biology Program successfully under way, Mitchell once again stepped outside traditional research models by engaging colleagues in the School of Medicine to plan for

DID YOU KNOW? Researchers at the University of Missouri have been making groundbreaking discoveries in the plant sciences for more than a century. MU boasts some of the world's leading scientists in wheat, corn and soybean research. The genetic mapping of plants has already paid great dividends through plants with higher yields that are more resistant to drought and disease.

an interdisciplinary biotechnology-biomedical research facility. Although it took many years and the efforts of many people to bring the vision to fruition, the Life Sciences Center is the result of the early planning efforts Mitchell initiated.

Tom Payne

Tom Payne became vice chancellor for agriculture and dean of the MU College of Agriculture, Food, and Natural Resources in January 1999. As chair of the Life Sciences Center Executive Committee, he championed the planning efforts already under way and contributed to securing the state, federal and private funds necessary to make construction of the Life Sciences Center a reality. Many of the private donations made to the center are a result of Payne's assistance to the development effort.

In addition to his involvement with the Life Sciences Center project, Payne has helped solidify the position of the College of Agriculture, Food and Natural Resources among the top 20 institutions of agricultural research in the nation. Despite budget shortfalls, national downtrends in agriculture-related student enrollment and a competitive environment for attracting and retaining talented faculty, the college has bucked the trends with research expenditures growing annually at a rate of 15 percent and an increase in the number of students attracted to the college's programs each year.

Michael Chippendale

G. Michael Chippendale has served in many roles since his arrival at the MU entomology department in 1968. Recognized for excellence in research, he took on administrative responsibilities in the College of Agriculture, Food and Natural Resources in the early 1990s. In 1994, when Chancellor Kiesler requested a business plan for a proposed interdisciplinary science research center, Roger Mitchell appointed Chippendale as chair of the group charged with developing the plan.

Chippendale served as interim director of the Life Sciences Center during the final planning and construction phases. He now serves as senior associate director of the center with primary responsibilities for facilities and research equipment. Life Sciences Director Michael Roberts and many others have found Chippendale's assistance to be invaluable in overseeing the completion, opening and occupancy of this new facility.

Blake Dinsdale

The Life Sciences Center has benefited greatly from the creative talents of award-winning graphic designer Blake Dinsdale, an MU graduate who joined

the staff of the MU Publications and Alumni Communication office four years ago. Blake designed all print publications such as this program, for the Life Sciences Center and created the center's logo, a stylized image of a DNA double helix. Blake also is the designer for MIZZOU magazine, the MU research magazine *Illumination* and a number of other publications. His work has been featured in the prestigious trade magazines *Communication Arts* and *Print*, and he has received numerous awards for his work on MU publications.

Robert Simmons

Bob Simmons, the architect representing the University of Missouri System and Board of Curators, played an important role in the early planning and design of the MU Life Sciences Center. His expertise helped in the selection of the architectural design team, preparation of bid documents and other key functions on the front end of construction. Prior to joining the UM System staff, Simmons was the project architect in the design firm responsible for development of the Reynolds Alumni Center at MU. He also was involved in the design of the Maryland Avenue Parking Structure. Simmons is known for his integrity, flexibility and ability to stay focused when a myriad of issues arise during a large building project. His years of experience with facilities on all four University of Missouri campuses provided important continuity on the Life Sciences Center project, which, when initiated, was the most complex and expensive construction project in MU's history.

Bobb Swanson

MU architect Bobb Swanson joined the Campus Facilities team in 1988. He is well-respected for the creative spirit he brings to projects and the consistency and continuity he facilitates. He has worked on a number of campus projects, including the Anheuser-Busch Natural Resources Building, the Student Recreation Center addition and Cornell Hall. Swanson became involved in planning the Life Sciences Center at an early stage, and as project manager, he was an important leader in the endeavor. In particular, his role as liaison between the University, architectural team, contractor and consultants has been invaluable to the Life Sciences Center project.

Dwight Hubert

Dwight Hubert joined MU's Campus Facilities in 1995 after working in private-sector construction management. Prior to serving as construction manager for the Life Sciences Center, Dwight was involved in managing the construction of several

MU Health Care projects, including the Ambulatory Care Building, the Critical Care Unit and the Emergency Room addition. He also served in an administrative role in Campus Facilities Construction Management.

Hubert is known among his colleagues and clients for his professionalism, high standards and knack for building strong relationships between contractors, architects, campus administrators and other players in a major project. Hubert's leadership has been instrumental in the successful completion of the Life Sciences Center.

BNIM Architects

BNIM Architects was the lead firm in a team of three collaborating architectural firms charged with designing the Life Sciences Center. Based out of the Kansas City area, the architectural expertise offered by BNIM includes pre-design analysis, full architectural and engineering services, and a comprehensive range of construction-related services. The firm is known for its strength in designing for sustainability, which it defines as an integrated approach balancing the social, economic and environmental aspects of life.

Anshen+Allen Architects

Founded more than 60 years ago in San Francisco, Anshen+Allen is now an international architectural practice specializing in health care facilities, research laboratories and university buildings. The firm is currently working on design, planning and consulting projects throughout North America, Europe and Asia. Recruited by BNIM Architects, the lead design firm, to collaborate on the Life Sciences Center project, Anshen+Allen provided its expertise in planning scientific research facilities and greatly enhanced the final design of the facility.

Research Facilities Design Architects

Research Facilities Design (RFD) is an architectural firm engaged exclusively in the planning and design of teaching and research laboratory facilities for higher education, industry and government clients. As a laboratory design consultant, RFD is committed to achieving client satisfaction and design excellence for scientific facilities. Based in San Diego, RFD has consulted on more than 600 laboratory building projects in 44 states throughout the United States, as well as the United Kingdom, the Middle East and Asia. As an important third member of the architectural team led by BNIM, RFD provided leadership in the Life Sciences Center lab design and all interior finishes of the building.

MU Planning, Design & Construction

The Planning, Design & Construction division of Campus Facilities at MU serves the institution and its clients and stakeholders by providing the services necessary to improve the physical environment in support of MU's institutional mission and vision. This award recognizes the many staff members of Planning, Design & Construction who shared their expertise and contributed countless hours and great spirit toward the successful completion of the Life Sciences Center.

MU Energy Management

The mission of the Campus Facilities Energy Management division is to provide MU with reliable and cost-effective energy services. The system provides highly reliable utility service to more than 13 million square feet of facilities, including three hospitals, a research reactor and numerous research facilities and laboratories, as well as classroom buildings, residential halls, dining facilities, athletic facilities, computer centers and administrative buildings. The expertise of Energy Management staff was critical throughout planning and construction of the Life Sciences Center. The staff collaborated with the design team to ensure proper connections to the intricate web of campus utilities and balanced heating, ventilating and air conditioning systems upon occupancy.

DID YOU KNOW? Reflecting its status in plant genomics, MU serves as a global repository for plant genomics information. Scientists worldwide send information on corn, soybean and wheat genomics to the repository. These linkages across the United States, China and Africa allow MU geneticists to validate information on species from crop to crop.

MU Information & Access Technology Services

Information & Access Technology Services (IATS) supports the University's mission of teaching and research by providing services and infrastructure that facilitate access to and use of information. Areas within the purview of IATS run the gamut from personal computing to high-end research computing and network infrastructure. Responsibilities include campus telephone and cable TV service, ID cards, information security, computing and software training, and a host of other functions related to the use of technology. IATS staff played a vital role in the planning and design effort to provide state-of-the-

art technology capabilities in the Life Sciences Center. IATS has committed funds for two technology support positions in the Center and also will provide important resources for the bioinformatics needs of Life Sciences Center investigators.

Academic Support Center

The mission of the Academic Support Center (ASC) is the promotion and improvement of teaching, research and service through educational communication technologies. The expert ASC staff has assisted in the planning and design of audiovisual systems for the Life Sciences Center, providing users with a facility that is well-equipped for teaching, learning and communicating. Since ASC staff installed most of the audiovisual technology after construction was complete, a great effort was necessary to have classrooms and the auditorium ready for use by the time classes started in August 2004. ASC staff also contributes to the Life Sciences Center in many other ways throughout the year by providing technical services for events and video conferencing and multimedia and design expertise.

Environmental Health & Safety

The MU Environmental Health & Safety division is charged with providing a safe and healthful environment for the University's mission of teaching, research and public outreach. The division's five major service areas include hazardous materials management, radiation safety, industrial hygiene, biological safety and occupational safety — all of which were important in developing procedures, facilities and equipment within the Life Sciences Center. Environmental Health & Safety staff will help ensure a safe environment for the multitude of students, faculty, staff and visitors who will work, study and conduct research in this facility.

DID YOU KNOW? MU is a national leader in comparative medicine research. Because animals and humans develop many of the same diseases, they often benefit from similar treatments. For example, Kristina Narfstrom, MU's Kraeuchi Professor of Veterinary Ophthalmology, is conducting gene therapy research on dogs born with a hereditary retinal disease. Narfstrom hopes that a similar therapy will be ready for use within the next two years in humans who face blindness from this disease.

RIBBON CUTTINGS

RIBBON CUTTINGS FOR NAMED AREAS

3:15 p.m. **Monsanto Auditorium**
3:30 p.m. **MO-AG Industries Plaza**
3:45 p.m. **MFA Incorporated Gateway**
4:00 p.m. **Allan and Vivian Purdy Native Tree Collection**
4:15 p.m. **Lowell and Marian Miller Discovery Garden**
4:30 p.m. **Al and Mary Agnes McQuinn Atrium**
4:45 p.m. **Charles W. Gehrke Proteomics Center**

DID YOU KNOW? The National Science Foundation and others have recognized Mizzou for successfully integrating research into undergraduate education. In fact, MU is one of the top public research universities in the country for the number and variety of opportunities it offers undergraduates to participate with faculty mentors in research. The Office of Undergraduate Research, which helps students find research projects and mentors in every academic discipline, is housed within the Life Sciences Center. More than 400 undergrads engage in independent research projects each year, and more than 1,600 are paid to assist with ongoing faculty research projects. This invaluable experience provides undergraduates with the critical-thinking skills and intellectual independence that only a major research university can offer.

RIBBON CUTTING BIOS

Monsanto Auditorium

Monsanto Co. has donated $1.9 million toward laboratory equipment for the Life Sciences Center. Monsanto also has been a major contributor to equipment purchases in the Charles W. Gehrke Proteomics Center. The Life Sciences Center depends on such donations to acquire and maintain the latest scientific instrumentation.

A leading provider of agricultural products and solutions, Monsanto uses plant biotechnology, genomics and breeding to improve productivity and reduce the costs of farming. Monsanto produces leading seed brands, including DEKALB and Asgrow, and develops biotechnology traits that integrate insect and weed control into the seeds themselves. The company also makes herbicides such as Roundup, the world's best-selling herbicide.

MO-AG Industries Plaza

One hundred individual contributors combined their donations under the MO-AG umbrella to get the Life Sciences Center project under way. Their start-up funds financed the concept plans for the center and paved the way for the finished facility.

With offices in Jefferson City, the Missouri Ag Industries Council has been the eyes, ears and voice of agribusiness for a third of a century. MO-AG has more than 550 dues-paying members and is the premier agribusiness trade association in the state. MO-AG represents the industry among legislators and regulators, offers peace of mind to its members through quality insurance, improves the workforce with education and training, and keeps members abreast of industry news.

MFA Incorporated Gateway

MFA Incorporated was one of the earliest contributors to the planning process of the Life Sciences Center. In concert with donations from MO-AG members, MFA Incorporated helped fund the conceptual design of the center.

Established in 1914 when seven Missouri farmers pooled their resources to buy 1,150 pounds of binder twine, MFA Incorporated now ties together 45,000 farmers in Missouri and adjacent states. The oldest regional cooperative in the United States, MFA Incorporated supplies its member-owners with a full line of agronomic and livestock inputs. It also runs retail service centers and supplies

DID YOU KNOW? MU attracts 72 percent of the federal research dollars flowing to Missouri's public universities.

many independent dealers. MFA Incorporated produces and markets a full line of animal feeds, animal health products and farm supplies, as well as fertilizer, seeds, crop-protection chemicals and related services.

Allan and Vivian Purdy Native Tree Collection

Allan and Vivian Purdy live in Columbia and are active participants in university life. An avid gardener and plant collector, Vivian graduated from Stephens College and worked in a botany laboratory while attending the University of Tennessee. Allan graduated from MU with a bachelor of science in 1938 and a master of science in horticulture in 1939. During his student years he was hired to tend the fruit and nut trees, grapevines and berry bushes that grew on the corner of College Avenue and Rollins Street. Allan and Vivian have endowed the same spot with native trees that recall the crops that used to grow here.

In 1962, Allan wrote the wording of the legislation that established the Federal Work-Study Program. President Nixon appointed him to the first board of directors of Sallie Mae, which created a national secondary market for student loans. Allan later served as the first director of student financial aid, first at MU and then for the University of Missouri System, until his retirement in 1979.

Lowell and Marian Miller Discovery Garden

Lowell and Marian Miller of Belton, Mo., have contributed the funds to install and maintain a garden at the southeast corner of the Life Sciences Center. The Lowell and Marian Miller Discovery Garden will showcase plants known to improve the quality of life. Among the species represented will be crops that resist disease and improve nutritional quality and plants used in medications for heart failure, cancer, allergies and other illnesses.

Lowell received his doctorate from MU's biochemistry department. In 1989 he retired from his position as senior vice president of research and development at what was formerly Marion Laboratories in Kansas City, Mo. While at Marion Laboratories, Lowell managed a team that developed several drugs, primarily in the areas of cardiovascular, gastrointestinal and burn therapy.

Marian, a 1959 graduate with a degree in home economics journalism, earned several scholarships to help defray the cost of attending college. As a way of showing her gratitude for that assistance, she has funded a scholarship under her own name in the College of Human Environmental Sciences.

Al and Mary Agnes McQuinn Atrium

During their school days, Al McQuinn and Mary Agnes Starr bonded over their mutual love of plants — ornamental, horticultural and agricultural.

Al received his degree in agricultural economics from MU in 1954 and later served as an officer and pilot in the U.S. Army. In 1963 he founded Ag-Chem Equipment Co. Inc., a publicly traded company that developed and marketed self-propelled agricultural equipment and application systems that integrated computer controllers and Global Positioning System technology.

Al is widely regarded as a leader in the development of site-specific farming in precision agriculture, an area in which he holds six patents. He has received numerous awards, including the SiteLiner Lifetime Achievement Award and the Lifetime Achievement Award for Precision Agriculture from the University of Minnesota. *Farm Chemicals* magazine named him as one of the Top 10 Influencers That Shaped 20th Century Agriculture.

Following Ag-Chem's acquisition by AGCO in 2001, Al founded QuinStar Investment Partners LLC. He currently serves as chairman and chief executive officer.

The McQuinns' unrestricted gift to the Life Sciences Center will be used at the director's discretion as needs arise.

Charles W. Gehrke Proteomics Center

In his 37-year tenure as a professor and research scientist in biochemistry, Charles Gehrke brought international recognition to MU.

A true practitioner of life sciences, Gehrke involved himself in research, teaching and businesses that directly affect the fields of biomedicine, biochemistry, agriculture and space sciences. As a professor, he mentored 60 graduate students. As an entrepreneur, he founded ABC Laboratories Inc., through which he provided employment for fellow scientists and offered insight into the unique rewards and problems associated with university-industry cooperation in research.

From 1969 to 1974, Gehrke's university laboratory analyzed all of the lunar samples from Apollo missions 11 through 17 to determine if life had ever existed on the moon. Gehrke pioneered chemical separation methods to analyze amino acids in proteins and the purines, pyrimidines and nucleosides in RNA and DNA. His work led to the use of metabolic markers in cancer research.

Lowell and Marian Miller, who provided funds for the Discovery Garden, are also benefactors of the Proteomics Center in honor of Gehrke.

MUSIC & MENUS

OPEN HOUSE – 3-5 p.m.

St. Louis

(Fifth Floor 'Skyview' Conference Room)

Music

The Hennessy Brothers: Columbia natives Sean and Kevin Hennessy are joined by drummer Jake Hanselman for a set of urban blues a la T-Bone Walker and Freddie King.

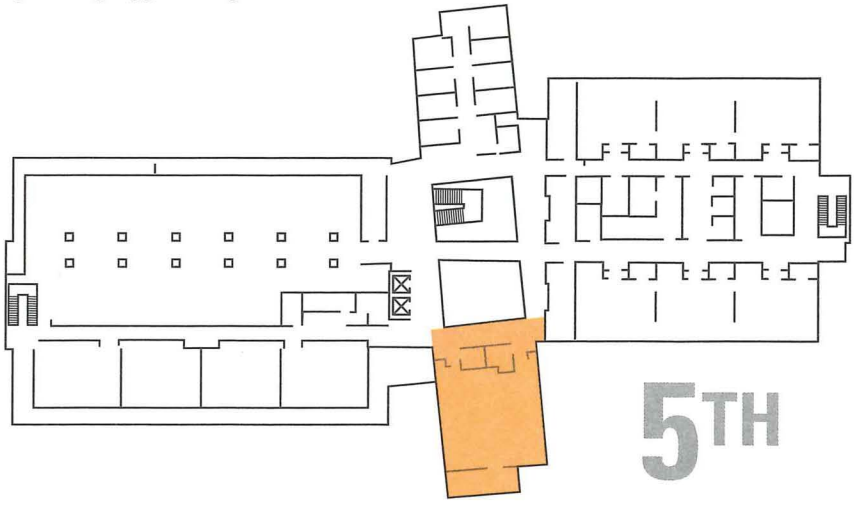
Freddie King (no relation to any of the other blues guitarists named King) was one of the lynchpins of modern blues guitar. Along with Otis Rush, Buddy Guy and MagicSam, King spearheaded Chicago's modern blues movement in the early '60s and helped set the stage for the blues-rock boom of the late '60s. His influence on such blues-rock titans as Eric Clapton helped preserve a legacy characterized by searing, aggressive guitar solos and the welding of blues and rock into one cohesive sound.

Bassist Kevin Hennessy recently relocated to Columbia after 18 years in California. He has many recording and performing credits, including work with Sting, Joe Pass, Peter Sprague, Nickel Creek, Ernie Watts, Kevyn Lattau, Fattburger, America, Albert King, Larry Davis and Mundell Lowe.

Guitarist Sean Hennessy has performed with A.J. Croce, Conrad Herwig, Buddy DeFranco, Dave Scott, Jim Widner, Annie Sellick, Sara Evans and Tom Kennedy. He has performed at the Nice, Molde and North Sea jazz festivals and on *Austin City Limits*.

Menu

Thin-crust St. Louis-style pizza
Catfish nuggets
Toasted ravioli
Baklava



Kansas City

(First Floor Reading Room)

Music

The Alaadeen Jazz Ensemble: As one of the most significant jazz musicians based in Kansas City, saxophonist Alaadeen was a student of Leo H. Davis, Charlie Parker's teacher. Alaadeen has been performing professionally since 1950 with many of the great names in music – including jazz legends Billie Holiday, Miles Davis, Jay McShann, Ella Fitzgerald and The Count Basie Orchestra, to name a few, and also with Motown stars such as Gladys Knight, Smokey Robinson, and The Temptations. Along the way, Alaadeen has become a legend in his own right, winning awards including Missouri's Artist of the Year, The Jazz Heritage Award and *Billboard Magazine's* songwriter awards for three of his own compositions. In 1996 the ensemble was picked from more than 3,000 bands to be *Musician Magazine's* Best Unsigned Band. In addition to performing with his ensemble, Alaadeen continues to work as a jazz educator. He is dedicated not only to playing but also to nurturing emerging artists.

Menu

Mini riblets
BBQ beef mini sandwiches
Creamy slaw
Mini apple dumplings
Mini cheesecakes

Mid-Missouri Ozarks

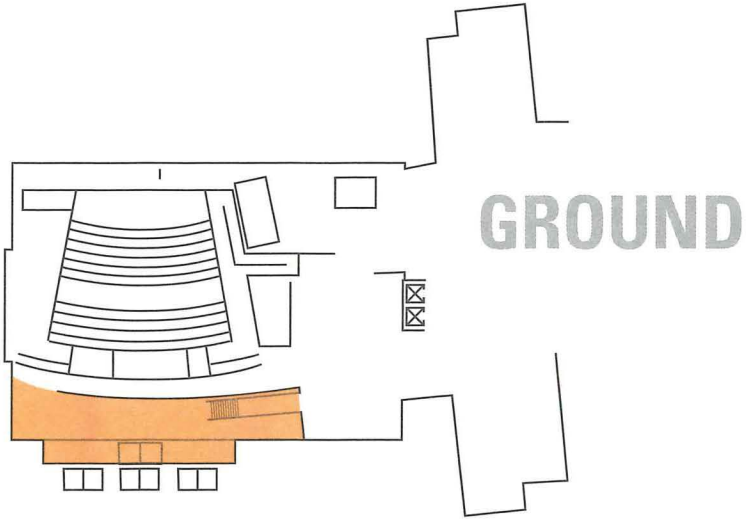
(Monsanto Foyer)

Music

The Rank Sinatras: Old-time hillbilly bands were notorious for wacky monikers, a standard born by rock bands as well. So what about central Missouri's own Rank Sinatras? If you can hear old Blue Eyes singing, "My kind of town... Hazard is..." then you have an idea where these four alpha-pickers from Boone County, Mo., are coming from. Featuring Mike Dulak on guitar and fiddle, Claud Crum on guitar, Joe Hinkebein on mandolin and Forrest Rose on the doghouse bass, the Rank Sinatras are esoteric and crazy, veering from hillbilly to swing. Bluegrass is such a well-defined style that it can embrace songs from disparate styles. Two of the genre's cousins growing up in the 20th Century were jazz and swing. The Rank Sinatras mines varied musical lodes from Blind Blake and Bill Monroe to Bob Wills and Guy Lombardo. But don't let the band's motto — "If it ain't rank, it ain't right"— fool you. Pulling these things off takes astute playing and arranging. The ensemble's high-gear bluegrass picking and harmony vocals make for clever, entertaining music.

Menu

Boone County country ham on cheddar biscuits
German apple bratwursts
Smoked trout on corn cakes
Tiger Stripe ice cream
Molasses walnut cakes



Thanks to the Life Sciences Undergraduate Research Opportunity Program for help with greeting, tours, ushering and coat check services.

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Alexis Cody
Aminata Coulibaly
Jay Cupps
Ryan Dierking
David Genochio
Jason Gentry
Amanda Holferty
Allison Howard
Katie Hurrelmeyer
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DID YOU KNOW? MU has the infrastructure for comprehensive research related to humans, animals and plants. No other university worldwide has on its campus the unique combination of resources that MU possesses. The College of Agriculture, Food and Natural Resources; the College of Engineering; the College of Human Environmental Sciences; the School of Medicine; the School of Nursing; the College of Veterinary Medicine; the School of Health Professions; hospitals for clinical trials; nuclear research reactor; field laboratories; and experiment stations — together form one of MU's biggest assets — a unique combination of resources that makes groundbreaking life sciences research and resulting applications possible.

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DID YOU KNOW? MU is No. 1 in the country among the nation's most prestigious public universities in growth of federal research support over the last five years. This means significant new dollars flowing into the Missouri economy that create jobs and generate economic benefit for Missourians. In 2003 MU researchers successfully competed for more than $205 million in research funding from sources that included federal agencies, the state of Missouri, not-for-profit organizations and private companies. Every $1 million in research expenditures supports approximately 41 jobs — translating into support for more than 8,000 jobs in 2003.

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EXHIBITS

EXHIBITS

Building Contractor (First Floor Display Lobby)

River City Construction

River City Construction, incorporated in 1984 in Peoria, Ill. was founded by six determined individuals who wanted to provide the highest quality construction services to the area. They have since established offices in Benton Ill. and Huntley, Ill. Their management and administrative group now numbers more than 65, including seven full-time estimators and 35 professionals who run projects. Over the past five years, River City Construction has averaged an annual volume of $131 million per year with $124 million in projects in 2002.

M.R. Mason Contractor, a River City Construction subsidiary, was acquired in 1997 to provide quality masonry. Since its formation in 1977, M.R. Mason has become well-known and respected for its capabilities, as well its knowledgeable, adept staff.

In early 1999, River City Design Group was formed as a professional design firm. The company's objective is to meet and exceed the need for architectural and engineering design experts on design/build projects.

Architecture Team (First Floor Display Lobby)

The three project architectural firms collaborated on this exhibit to show the concept and design work of the Life Sciences Center. Information on each company is shown under the "awardee" section of this program.

BNIM Architects was the lead firm charged with designing the Life Sciences Center. BNIM contributed pre-design analysis, full architectural and engineering services. The firm is known for its strength in designing for sustainability, an integrated approach balancing the social, economic and environmental aspects of life.

Anshen + Allen Architects

Recruited by BNIM Architects to collaborate on the Life Sciences Center project, Anshen+Allen Architect's expertise with scientific facilities has greatly enhanced the final design of the facility.

Research Facilities Design

As an important third member of the architectural team, Research Facilities Design provided leadership in laboratory design, as well as the interior finishes of the building.

Moon Rock (Second Floor Atrium)

From 1969 to 1974, Charles W. Gehrke, professor emeritus of MU's biochemistry department, analyzed all of the lunar samples from Apollo missions 11 to 17 to determine if life had ever existed on the moon. He pioneered chemical separation methods to analyze amino acids in proteins and the purines, pyrimidines and nucleosides in RNA and DNA. The lunar sample on display here is on loan from NASA's Johnson Space Center in Houston. The gas chromatograph shown alongside the lunar sample is on loan from the Boone County Historical Society. This is one of two instruments used in the analysis of lunar samples; the other is in the collection of the Smithsonian Institution's Air and Space Museum.

Acknowledgements

Hotel and Restaurant Management Program in the College of Agriculture, Food and Natural Resources for preparing and serving food and beverages

Columbia Chamber of Commerce Ambassadors for assistance with ribbon cuttings

Jon Poses, Executive Director of the We Always Swing Jazz Series, for assistance in booking the jazz and blues musicians

Jira Unlimited for sponsoring T-shirts, awards and lapel pins

Jacque Dunn, director of development, regional programs, and Matt Gaunt, Development Officer, College of Agriculture, Food and Natural Resources for transporting the moon rock to and from the Johnson Space Center

Science for a Better Life
Studying Food, Health and the Environment

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