

# Divisions, Units, and Agencies

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## A. Major Divisions and Staffs

### Budget and Planning

<http://www.vpbp.msstate.edu/>

Responsible for accounts payable, budget, cost accounting, financial records, campus mail services, payroll, procurement and contracts, receiving and property control, sponsored programs accounting, student accounting and receivables, travel and treasury services.

Don Zant, B.S., Vice President for Budget and Planning

### Controller and Treasurer's Office

<http://www.controller.msstate.edu>

The Controller and Treasurer's Office primary mission is to

1. provide financial service to the University community and its customers,
2. protect the University's financial resources and
3. insure compliance with both internal and external financial regulations, policies and procedures.

Kevin Edelblute, M.B.A., Controller and Treasurer

Betty Gentry, M.B.A., Assistant Controller for Treasury Services

Jane Kinard, B.P.A., Assistant Controller for Accounts Receivable and Collections

Denise Peebles, M.B.A., Assistant Controller for Sponsored Programs Accounting

Ken Stewart, M.C.S., Director for Reporting, Planning, & Analysis

June Dempsey, B.P.A., Assistant Controller for Budget & Payroll

Amy Burchfield, C.P.A., Assistant Director for Reporting, Planning, & Analysis

### Forest and Wildlife Research Center

<http://fwrc.msstate.edu>

The Forest and Wildlife Research Center (FWRC) was authorized by the Mississippi Legislature with passage of the Renewable Natural Resources Act of 1994. The FWRC mission is to conduct research and technical assistance programs relevant to the efficient management, utilization, and protection and enhancement of the forest, wildlife, fisheries, aquaculture, and other aquatic resources of the state and region. Within the scope of this mission, the FWRC has responsibilities for developing through research: (1) natural resource management systems which ensure the optimal production of goods and services while protecting, sustaining and enhancing the upland and aquatic environments; (2) harvesting and manufacturing technologies that promote efficient utilization of the state's timber resources; (3) biological and economic data bases which address specific problems and opportunities related to the state's forest, wildlife, aquatic and fisheries resources, including environmental issues related to those resources; and (4) policy analyses which provide options for renewable resources management and use in Mississippi.

The research center is composed of the Departments of Forestry: Wildlife, Fisheries and Aquaculture; Sustainable Bioproducts and the Franklin Furniture Institute. The agency's base research program involves approximately 250 separate research activities and covers project work in 25 research areas in forestry, forest products, wildlife, fisheries, aquaculture, water, and other areas of natural resources. This research program serves a diverse number of clients which includes forest landowners, forest-based industries, federal and state agencies, private agencies and various forest and other natural resources user groups. Faculty in the Forest and Wildlife Research Center hold joint appointments in the College of Forest Resources, Mississippi Agricultural and Forestry Experiment Station, and MSU Extension.

### Forest and Wildlife Research Center

George M. Hopper, Ph.D., Director

Wes Burger, Ph.D., Associate Director

Reuben Moore, Ph.D., Associate Director

#### Forestry

Andrew Ezell, Ph.D., Professor and Head

#### Sustainable Bioproducts

Rubin Shmulsky, Ph.D., Professor and Head

#### Wildlife, Fisheries, and Aquaculture

Andy Kouba, Ph.D., Professor and Interim Head

## Mississippi Agricultural and Forestry Experiment Station

<http://www.mafes.msstate.edu>

The Mississippi Agricultural and Forestry Experiment Station (MAFES) conducts scientific research in agriculture and related sciences. The mission of the Experiment Station is to advance agriculture and natural resources through teaching and learning, research and discovery, service and engagement which will enhance economic prosperity and environmental stewardship, to build stronger communities and improve the health and well-being of families, and to serve people of the state, the region and the world.

The success of agricultural research in the first 100 years has resulted in a highly complex food, fiber and fuel system that is the envy of the world – but one that is also characterized by the continuing emergence of new problems and opportunities. Thus, the foremost challenge of MAFES is maintaining a continuum of research discovery and education to keep Mississippi's agricultural producers viable and competitive in a global economy.

MAFES operates on the MSU campus and through 16 branch experiment stations. MAFES Facilities on campus include the H.H. Leveck Animal Research Center (South Farm), the Bearden Dairy Research Center, the R.R. Foil Plant Research Center (North Farm), the Custer Dairy Processing Plant, the MAFES Sales Store, and the Black Belt Branch Station at Brooksville.

On-campus departments conducting research to meet these needs are: Agricultural Economics; Agricultural and Biological Engineering; Animal and Dairy Sciences; Biochemistry, Molecular Biology, Entomology, and Plant Pathology; Food Science, Nutrition, and Health Promotion; Human Sciences; Landscape Architecture; Plant and Soil Sciences; Poultry Science; the Social Science Research Center; Institute for Genomics, Biocomputing and Biotechnology; and Wildlife, Fisheries, and Aquaculture.

Off-campus activities are conducted through four regional research and extension centers and 16 branch experiment stations across the State.

Research priorities in MAFES include agricultural production, animal production systems, food safety and quality, sustainable energy, human health and well-being, and sustainable communities. Both undergraduate and graduate students participate in research programs.

### Personnel

George Hopper, Ph.D., Director  
Wes Burger, Ph.D., Associate Director  
Reuben B. Moore, Ph.D., Associate Director

### Agricultural Economics

Keith Coble, Ph.D., Professor and Interim Head

### Agricultural and Biological Engineering

Jonathan W. Pote, Ph.D., Professor and Head

### Animal and Dairy Science

John Blanton, Ph.D. Animal Scientist and Dept. Head

### Biochemistry, Molecular Biology and Entomology and Plant Pathology

Jeffrey Dean, Ph.D., Professor and Head

### Food Science, Nutrition and Health Promotion

Will Evans, Ph.D., Professor and Head

### Human Sciences

Michael Newman, Ph.D., Professor and Director

### Plant and Soil Sciences

Mike Phillips, Ph.D., Professor and Head

### Poultry Science

Mary Beck, Ph.D., Professor and Head

### Wildlife, Fisheries, and Aquaculture

Andy Kouba, Ph.D., Professor and Head

### Central MS Research and Extension Center, Raymond

Sherry Surette, Ph.D., Head

### Delta Research and Extension Center, Stoneville

Jeff Johnson, Ph.D., Head

**North Mississippi Research and Extension Center, Verona**

Reuben Moore, Ph.D., Interim Head

**Coastal Research and Extension Center, Biloxi**

Sherry Surette, Ph.D., Interim Head

**Mississippi State University Extension Service**

The Mississippi State University Extension Service provides research-based information and educational programs in agriculture, natural resources, 4-H youth development, family and consumer science, and community resource development to improve the economic, social, and cultural well-being of Mississippians.

As part of a three-way partnership of the U.S. Department of Agriculture, the land-grant university system, and individual counties, it provides information and educational programs in all of the state's 82 counties. MSU Extension also cooperates with Alcorn State University, Mississippi's other land-grant institution.

MSU Extension supports positive change for individuals, families, and communities by providing practical, directly applicable information and educational opportunities using the latest information technologies and proven teaching techniques. To achieve its mission, MSU Extension develops and uses volunteers to assist with program delivery, collaborates with many other organizations, and maintains a culturally diverse staff responsive to the needs of people at all socioeconomic levels.

Programs are conducted primarily by Extension agents supported by faculty responsible for gathering, interpreting, and disseminating information about the latest research findings and technological developments. A program planning process is used to in-service agents to provide non-formal education to adults, including 4-H youth.

Agriculture and its related enterprises are of major economic importance in Mississippi. Also directly affecting quality of life are the relationship between people and their environment and the continuing need for human resource development. The Extension Service directs its programs and resources accordingly and continues to pursue innovative ways to help families, youth, and communities adjust and thrive in an ever-changing world.

**Personnel**

Mark E. Keenum, Ph.D., President of the University

Gregory A. Bohach, Ph.D., VP DAFVM

Gary Jackson, Ph.D., Director, MSU Extension Service

Steve Martin, Ph.D., Associate Director, MSU Extension Service, Extension Research Professor

Paula Threadgill, Ph.D., Associate Director and Professor, Human Sciences

**Agricultural Economics**

Steven Turner, Ph.D., Professor and Head

**Agricultural and Biological Engineering**

Jonathan Pote, Ph.D., Professor and Head

**Animal and Dairy Science**

John Blanton, Ph.D., Professor and Head

**Center for Governmental and Community Development**

Sumner Davis, M.A., Extension Professor and Center Head

**Central Mississippi Research & Extension Center, Raymond**

Sherry Surette, Ph.D., Extension/Research Professor & Interim Center Head

**Coastal Research and Extension Center, Biloxi**

Sherry Surette, Ph.D., Extension/Research Professor and Interim Center Head

**Center for Technology Outreach**

Randy Loper, M.S., Center Head

**Delta Research and Extension Center, Stoneville**

Jeff Johnson, Ph.D., Extension Professor and Center Head

**Biochemistry, Molecular Biology, Entomology and Plant Pathology**

Jeff Dean, Ph.D., Professor and Head

**Food Science, Nutrition and Health Promotion**

Will Evans, Ph.D., Professor and Head

**Forestry**

Andrew W. Ezell, Ph.D., Professor and Head

**4-H—Youth Development**

Larry Alexander, State Program Coordinator and Extension Professor

**Geosystems Research Institute**

Robert Moorhead, Ph.D., Director

**School of Human Sciences**

Michael E. Newman, Ph.D., Director and Professor

**North Mississippi Research and Extension Center, Verona**

Reuben Moore, Ph.D., Extension/Research Professor and Interim Center Head

**Office of Agricultural Communications**

Elizabeth North, M.S.S., Head

**Plant and Soil Sciences**

Mike Phillips, Ph.D., Professor and Head

**Poultry Science**

Mary Beck, Ph.D., Professor and Head

**Southern Rural Development Center**

Steve Turner, Ph.D., Director, SRDC

**Wildlife and Fisheries**

Andy Kouba, Ph.D., Professor and Head

**County Personnel**

Each of the 82 counties has a core Extension Staff to address agriculture, natural resources, family and consumer sciences, 4-H youth development, and community development needs. In addition, there are program assistants working in targeted nutrition programs. The total number of professionals is approximately 325.

**University Libraries**

<http://library.msstate.edu/>

The University's major library collections and functions are housed in the Mitchell Memorial Library, which occupies a central location on the campus. The University Libraries provide access to over 100,000 periodical/journal titles in print and electronically. The Special Collections Department contain materials of historical value, including 491 manuscript collections, church and business records. The Congressional and Political Research Center houses the papers of a number of public figures important to Mississippi – most notably those of U.S. Senator John C. Stennis. The Archives of the University includes papers of the University's presidents and other officers, college, division and departmental records, faculty papers, records of committees and university related organizations. The Library provides an environment for education technology activities and a learning center of techniques related to digital multimedia in the Instructional Media Center. The Library's Computer Commons lab is open until 1:45 a.m., Sunday through Thursday, until 7:45 p.m. on Friday, and until 5:45 p.m. on Saturday.

The University Libraries supports the Bob and Karen Luke Library (College of Architecture, Art, and Design), the College of Veterinary Medicine Library, the Jackson Design Center Library and the Phil Hardin Foundation Libraries (MSU – Meridian College Park Campus and the Riley Campus).

Frances N. Coleman, Dean of Libraries

**University Registrar**

<http://www.msstate.edu/dept/registrar> (<http://www.msstate.edu/dept/registrar/>)

The Office of the University Registrar is responsible for supervising the scheduling of classes, managing the registration of students in courses, recording grades, and maintaining academic records and transcripts of all students and alumni of the University.

John R. Dickerson, Ph.D., Registrar

## B. Internal Service Units

### Information Technology Services and Office of the CIO

<http://www.its.msstate.edu/>

The mission of Information Technology Services (ITS) is "to enable learning, research and service through an advanced information technology environment." This mission is fulfilled through three operational units within ITS-Information Technology Infrastructure, User Services, and Enterprise Information Systems. ITS supports and operates the university's voice, data, video, and wireless networks and provides a broad array of computing and information technology resources and services for students, faculty, and staff including Internet, Internet2, and other national and global networks access. In addition, ITS develops and maintains administrative information systems throughout the university. Support is provided for enterprise applications such as Banner, myCourses, eForms, and myState and for numerous departmental systems and websites. The ITS Help Desk is available to answer questions and help with computer-related problems. A suite of workshops and seminars is offered to meet the information technology training needs of MSU students, faculty and staff. See [www.its.msstate.edu](http://www.its.msstate.edu) for more information.

Mike Rackley, M.S., Chief Information Officer  
Steve Parrott, B.S., Deputy CIO and Director, User Services  
Meredith Jackson, MBA, Director, Enterprise Information Systems  
Jay Burrell, M.C.S., Director, Information Technology Infrastructure

### Office of Institutional Research and Effectiveness

<http://www.ir.msstate.edu>

The Office of Institutional Research and Effectiveness (OIRE) provides appropriate and timely information to decision makers at Mississippi State University, the Board of Trustees of State Institutions of Higher Learning, the Federal government, and other constituents. OIRE is also responsible for providing leadership necessary for maintaining Mississippi State University's accreditation with the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) and facilitating the development and implementation of assessment programs emphasizing continuous improvement in fulfilling MSU's overall teaching, research, and service mission.

The Institutional Research staff analyzes and prepares reports relevant to evaluating faculty workload, student credit hours produced and departmental data vital in the allocation of university resources. The staff assists the university community through its research, consulting, and survey activities. Evaluation and Test Service utilizes optical scanning equipment to score and analyze faculty-constructed tests, processes, questionnaires and student evaluation of instruction.

The Institutional Effectiveness staff facilitates the development and implementation of assessment programs emphasizing continuous improvement in fulfilling MSU's overall teaching, research, and service mission. The staff uses organizational assessment tools to help departments and units improve key processes, assess institutional needs, and develop institutional effectiveness plans that achieve the goals outlined in Mississippi State's strategic plan

Timothy N. Chamblee, Ph.D., Director

### Police Department

<http://police.msstate.edu/>

It is the mission of the Police Department to support the university and its community by providing effective and efficient services that assist in establishing a safe and secure environment.

The department is staffed 24 hours a day with highly trained officers to enforce the laws, and university rules and regulations. Additionally, police officers actively work with the campus community in providing crime prevention information and addressing crime, safety, and security issues.

Georgia Lindley, Chief of Police

## Schools and Colleges

### School of Architecture Research

Office: 240 Giles

[http://www.caad.msstate.edu/caad\\_web/sarc/researchcenters.php](http://www.caad.msstate.edu/caad_web/sarc/researchcenters.php)

Research in the discipline of architecture aims to improve the quality of life. It ranges from the development of more efficient, safer, less expensive, more durable building materials and components to the design of environmentally sensitive, energy efficient, and economically viable communities.

There are currently two research centers in the School of Architecture; one located on the Starkville campus and one in Biloxi. The Carl Small Town Center (Starkville campus) provides research and outreach to small towns through downtown redevelopment and other community design initiatives.

It addresses quality of life issues, such as economic diversification, town planning, conservation of architectural and historic resources, and affordable housing design and technology. The Gulf Coast Community Design Studio (Biloxi) works with elected officials, city and regional planning departments, neighborhood groups, and non-profit organizations to provide leadership and design assistance to Mississippi Gulf Coast communities damaged or destroyed by Hurricane Katrina as well as addressing issues of resiliency across the nation.

Faculty research activities focus on programming, planning and design, anthropometric modeling and evaluation, architectural theory and history, visual imagery, post-occupancy evaluation, and the technological evaluation of materials and methods, energy efficiency, and construction.

David Perkes, M. Arch., Director, Gulf Coast Community Design Studio

John Poros, M.Arch., Director, Carl Small Town Center

## **College of Arts and Sciences**

### **Biological and Physical Sciences Research Institute**

Office: 208 Allen Hall

The mission of the Biological and Physical Sciences Research Institute is to (1) encourage research in the basic and applied biological and physical sciences within the College of Arts & Sciences, (2) assist the faculty and staff in the preparation and submission of research proposals, (3) serve as a liaison between researchers in the College of Arts & Sciences and the Office of Research and Economic Development, and (4) assist faculty and students in attending scholarly meetings. The staff consists of the Associate Dean for Research and Graduate Studies, who serves as director, and the faculties of the Departments of Biological Sciences, Chemistry, Geosciences, Mathematics & Statistics, and Physics & Astronomy.

### **Center for Computational Sciences**

Office: 2 Research Boulevard

<http://www.ccs.msstate.edu>

The Center for Computational Sciences (CCS) is part of a coalition of member centers and groups housed at the HPCC (formerly known as the Engineering Research Center) that share a common core objective of advancing the state-of-the-art in computational science and engineering using high-performance computing; a common approach to research that embraces a multi-disciplinary, team-oriented concept; and a commitment to a full partnership between education, research, and service.

The mission of CCS is to foster interdisciplinary research in both the fundamental understanding and application of all the natural sciences. In particular, CCS strives to model and develop integrated computational environments and crosscutting tools which allow a comprehensive, cross-disciplinary approach to problem-solving. The CCS contributes to the state of Mississippi in numerous ways. Firstly, this program generates a better-educated populace and a better-trained work force by educating students at both the undergraduate and graduate levels in interdisciplinary research, providing them with strong skills in computers, modeling, and the application of the scientific method. These skills are required in a multitude of varied industries and businesses. Secondly, the CCS introduces MSU scientists from diverse fields to different research and new methodologies. This uniquely positions our scientists to fashion multidisciplinary proposals. Such multidisciplinary approaches to problem-solving are often requirements in requests for proposals from federal agencies and industries. CCS thus creates new opportunities for leveraging resources within MSU as well as drawing resources to MSU.

Seong-Gon Kim, Ph.D., Director

### **The Cobb Institute of Archaeology**

Office: Cobb Institute Building

<http://www.cobb.msstate.edu/>

The Cobb Institute of Archaeology was founded in July, 1971, at Mississippi State University by Mr. Cully A. Cobb (Class of 1908) and Mrs. Lois Dowdle Cobb, for instruction and research in Archaeology with emphasis upon the origins of Western European Civilization and the Indians of the South, particularly Mississippi. The Institute was endowed by the Cobbs to complement the university's activities in archaeological instruction, research and service.

The Institute provides active support for the instructional programs in archaeology offered through the Department of Anthropology and Middle Eastern Cultures. Research and field work are actively pursued, primarily in the Middle East and the Southeastern United States. The Institute actively supports an archaeological field school offered in alternate summers in the Middle East and Mississippi. The Institute is housed in two specially designed archaeological buildings which include classrooms, archaeological laboratories, environmentally controlled artifact storage areas, and a museum in which archaeological exhibits are made available to students and the public.

Michael L. Galaty, Ph.D., Interim Director

### **The Mississippi Quarterly**

Office: 213 Lee Hall

<http://www.missq.msstate.edu>

The *Mississippi Quarterly* is a publication of the College of Arts and Sciences and the Office of Research. Founded in 1948, it is a refereed, scholarly journal which publishes articles on the literature and culture of the South, past and present.

Ted Atkinson, Ph.D., Interim Editor  
 Robert West, Ph. D., Associate Editor  
 Laura E. West, MLS, Managing Editor

## **John C. Stennis Institute of Government and Community Development**

Office: The Depot Building  
<http://www.sig.msstate.edu>

Founded in 1976, the John C. Stennis Institute of Government and Community Development (Stennis Institute) seeks to integrate research, service, and teaching activities to enhance local communities throughout Mississippi. As a research, training, and outreach unit of Mississippi State University, the Stennis Institute shares the land-grant institution's mission of extending university resources to local communities to improve their overall quality of life.

The mission of the Stennis Institute is to enhance the efficiency and effectiveness of state and local government and promote more desirable and competitive Mississippi communities through governmental assistance, civic education, and community development. The Stennis Institute's activities relating to governmental assistance include training symposiums such as the State Executive Development Institute (SEDI) for key state officials and comprehensive policy and research generated at the request of state legislators, state agencies, and municipal governments on various topics, such as municipal salaries, taxes, housing, and more. The Stennis Institute's civic education programs include participation in the Congressional Insight program, as well as a variety of state and national programs. The Stennis Institute's community development programs and activities focus on such areas as community design; strategic planning; and local capacity building. Through state-wide programs such as First Impressions, Selected to Serve, and YourTown, Mississippi, the Stennis Institute helps community leaders to foster informed decision making and helps build partnerships between local, regional, and state officials and associations to support community development initiatives.

P. Edward French, Ph.D., Professor and Executive Director

## **College of Business**

### **Center for Entrepreneurship and Outreach**

Office: 101 McCool Hall  
<http://ecenter.msstate.edu/>

The Center for Entrepreneurship and Outreach strives to help students, faculty and staff at Mississippi State University start and grow successful companies. Our goal is to provide world-class strategic guidance and mentorship, build financial and other tangible resources to support business startups, forge new partnerships with industry thought leaders, enhance interdisciplinary relationships, and actively promote outreach to new students. Through these efforts, we aggressively seek to unify, grow and foster a strong campus-wide culture of entrepreneurship.

Eric Hill, Entrepreneurship Director  
 Jeffrey Rupp, Outreach Director

### **Center of Family Enterprise Research**

Office: 308 McCool Hall

The mission of the Center of Family Enterprise Research is to conduct and promote original research on family business, to provide educational and research opportunities for graduate students, primarily at the doctoral level, and to disseminate the results of research to family businesses throughout the U.S., and Mississippi in particular, in order to improve their management and performance.

Jim Chrisman, Ph.D., Director

### **Small Business Development Center**

Office: 60 Technology Blvd., Suite 105E

The mission of the MSU Small Business Development Center is to provide services and support that will enable the state of Mississippi to become the leading environment for small business success in the nation.

Sharon Oswald, Ph.D., Dean

### **Veterans Business Outreach Center**

Office: 60 Technology Blvd., Suite 105D  
<http://vboc.msstate.edu/>

The mission of the Veterans Business Outreach Center (VBOC) is to assist veterans and their spouses in creating, developing, and retaining their veteran-owned businesses. The VBOC serves all U.S. military veterans (including active duty, guard, reserves, spouses, and survivors) in Alabama, Louisiana, Mississippi, and Tennessee.

Parker Stewart, Director



## **College of Engineering**

### **Institute for Clean Energy Technology (ICET)**

Office: 205 Research Boulevard  
<http://www.icet.msstate.edu>

The Institute for Clean Energy Technology (ICET) at Mississippi State University is a multidisciplinary group of scientists and engineers focused on measurement technologies and engineering scale testing for energy and environmental systems. Established in 1979, the Institute has a tradition of excellence in diagnostic instrumentation development, including imaging and laser-based techniques, and utilization of these systems in large-scale applications.

Current initiatives within ICET include processing legacy wastes within the US Department of Energy's national security complex. Filter testing infrastructure at ICET is unique and has become internationally recognized for challenging full-sized HEPA filters under design basis event conditions. ICET also has extensive radiation detection and measurement capabilities. Gamma spectroscopy based survey systems have been developed for the US Army to rapidly and accurately locate and identify areas of radiological contamination.

ICET's research results and partnerships with industry and federal agencies are designed to reduce risk to public health and the environment. The Institute offers students non-traditional educational experiences through a multidisciplinary approach to research.

Charles A. Waggoner, Ph.D., Director

### **High Performance Computing Collaboratory (HPC<sup>2</sup>)**

Office: 2 Research Boulevard  
<http://www.hpc.msstate.edu>

The High Performance Computing Collaboratory (HPC<sup>2</sup>), an evolution of the MSU NSF Engineering Research Center (ERC) for Computational Field Simulation, at Mississippi State University is a coalition of eight member centers and institutes that share a common core objective of advancing the state-of-the-art in computational science and engineering using high performance computing; a common approach to research that embraces a multi-disciplinary, team-oriented concept; and a commitment to a full partnership between education, research, and service. The mission of the HPC<sup>2</sup> is to serve the University, State, and Nation through excellence in computational science and engineering.

Brandy Akers, Director, Business Operations  
William B. (Trey) Breckenridge III, Director, High Performance Computing

The member centers and institutes of the HPC<sup>2</sup> are:

Alliance for System Safety of UAS through Research Excellence  
Marty W. Rogers, Interim Director

Center for Cyber Innovation  
John A. Hamilton, Ph.D., Director

Center for Computational Sciences  
Seong-Gon Kim, Ph.D., Director

Distributed Analytics and Security Institute  
David A. Dampier, Ph.D., Director

Geosystems Research Institute  
Robert J. Moorhead II, Ph.D., Director

Institute for Computational Research in Engineering and Science  
Roger King, Ph.D., Director

Institute for Genomics, Biocomputing & Biotechnology  
Daniel G. Peterson, Ph.D., Director

Northern Gulf Institute  
Robert J. Moorhead II, Ph.D., Director

### **Mississippi Transportation Research Center**

Office: 235 Walker Hall  
<http://www.cee.msstate.edu/research/mtrc/>

The Mississippi Transportation Research Center (MTRC) was established in 1997 as a partnership between the Mississippi Department of Transportation (MDOT) and MSU. MTRC functions to conduct scholarly research designed to advance current transportation-related technologies in the



State of Mississippi. It supports educational opportunities for MDOT personnel, and others associated with the MDOT, to strengthen their professional expertise, enhance their work-related effectiveness, and advance their professional careers. MTRC also engages as a basis for information exchange with peer transportation centers and other identified organizations and corporate entities as deemed appropriate by MDOT. This center strives to develop, execute, and administer work assignments under a Master Agreement which expedites research efforts at Mississippi's universities in support of MDOT's missions and research needs. It works with peer centers in other states to communicate and exchange information on activities and research as approved by MDOT. Current and recent research efforts include: pavement materials design, construction risk mitigation, work zone safety, rural and urban mobility improvement, connected vehicle infrastructure development, life cycle enhancement of materials, event management and traffic studies, pavement design guidelines, and transportation policy.

Dennis D. Truax, Ph.D., Director

## **Raspjet Flight Research Laboratory (RASPET)**

Office: Raspjet Building 2, 114 Airport Road  
<http://raspet.msstate.edu>

The Raspjet Flight Research Laboratory (RFRL) is one of the premier university flight research facilities in the nation. Established at Mississippi State University (MSU) in 1948 by aviation pioneer Dr. August Raspjet, this aeronautical research laboratory boasts a rich heritage in full-scale flight vehicle development and testing, unmanned aircraft systems (UAS) research, development, test and evaluation (RDT&E), and advanced composite materials development and fabrication. As the research lead for the FAA's UAS Center of Excellence, RFRL directs and coordinates unmanned systems RDT&E for 22 of the nation's leading aviation research universities, including evaluating cutting-edge technologies for airspace integration, safety, autonomy and pilot performance. In addition to a significant base of externally funded research, RFRL makes significant contributions to the educational goals of the university as a superior training ground and research facility for MSU students at the graduate and undergraduate level. RFRL is one of very few university based laboratories with the capability to design, build, and test prototypes of full-scale manned and unmanned aircraft. RFRL has engaged in a broad spectrum of composite prototyping and flight test activities, ranging from the development and fabrication of the first turbine powered composite aircraft and the first all-graphite turboprop business jet to the development of unmanned aircraft systems and components. RFRL also plays a major role in meeting university goals in the area of economic development.

Dallas Brooks., Director

## **Center for Advanced Vehicular Systems (CAVS)**

<http://www.cavs.msstate.edu>

CAVS is an interdisciplinary center comprised of engineering, research, development, and technology transfer teams focused on enhancing human and payload mobility. The CAVS activities are clustered around material science, manufacturing, process modeling, vehicular systems engineering, design optimization, human factors and ergonomics, alternative powered systems, and intelligent electronic systems. While CAVS projects generate timely solutions relevant to regional manufacturers, CAVS research seeks to expand knowledge that is essential for sustained economic development. Through direct involvement in various activities at CAVS, students gain valuable experience that leverages on their classroom learning. CAVS also serves as the academic department for the college's graduate program in Computational Engineering. In support of its mission, CAVS also offers a direct

## **Division of Agriculture, Forestry, and Veterinary Medicine**

### **Center for Environmental Health Sciences**

Office: r1102 Wise Center  
<http://www.cvm.msstate.edu/index.php/academics/departments-centers/center-for-environmental-health-sciences>

The Center for Environmental Health Sciences provides a research focus for university activities directed towards maintaining and improving the quality of environmental health in Mississippi, the nation, and the world. Its goal is to facilitate the development, implementation, and administration of focused and of multi-disciplinary efforts in research and training in the areas of environmental health, with primary consideration of human health impacts. One of the primary focus areas in environmental health is discerning the effects of environmentally relevant chemicals on organisms, and, conversely, the effects that organisms have on these chemicals. The Center provides an interdisciplinary mechanism for uniting researchers from different MSU administrative units to work on common problems which require interdisciplinary solutions. Participants have appointments in the College of Veterinary Medicine, the College of Arts and Sciences and the Mississippi Agricultural and Forestry Experiment Station. Major disciplines represented are biochemical toxicology, neurotoxicology, cardiovascular toxicology, immunotoxicology, endocrine toxicology, analytical chemistry, exposure science and computational toxicology. The Center also has an interest in health disparities research and neuroprotection. The Center unites MSU faculty members with appropriate expertise into teams which can respond to environmental health issues when general or specific needs arise.

Janice E. Chambers, Ph.D., D.A.B.T., A.T.S., Director

## **D. Other Units**

### **Flow Cytometry Facility**

Office: Wise Complex, Room R3200

The Flow Cytometry Facility is a University-wide facility supported by the College of Veterinary Medicine. The facility has a two-fold purpose of providing flow cytometry and high speed cell sorting support of scientists at Mississippi State University and consultation on research problems involving flow cytometry. The facility is staffed by two trained technicians.

Wei Tan, Director  
Stephen Pruett, Faculty Advisor

## **Office of the State Climatologist**

Office: 214 Hilbun Hall  
<https://www.geosciences.msstate.edu/state-climatologist/>

A State Climatologist for Mississippi was appointed in the Department of Geosciences at MSU in 1983. The State Climatologist serves as the focal point for climatic information and analysis within the state. The State Climatologist communicates data and information, performs research, and monitors current climate conditions and places events in historical perspective. The State Climatologist in Mississippi has the distinction of being an American Association of State Climatologists-Recognized State Climate Office.

Michael E. Brown, Ph.D., State Climatologist for Mississippi

## **Mississippi Department of Agriculture and Commerce - Bureau of Plant Industry**

Office: Mississippi Department of Agriculture and Commerce Building on Stone Boulevard  
<http://www.mdac.ms.gov>

The Bureau of Plant Industry is a division of the Mississippi Department of Agriculture and Commerce.

The Bureau is established under the Mississippi Plant Act, Sections 69-25-1 through 69-25-47, Mississippi Code 1972, and is responsible for protecting the agricultural and horticultural interests of the state from the introduction into and dissemination within the state of injurious insects and plant diseases. The Bureau of Plant Industry is the Plant Protection and Quarantine Division of the Mississippi Department of Agriculture and Commerce. An Advisory Board is established by law to advise the Commissioner of Agriculture on matters regarding the Bureau, especially in adopting rules and regulations.

The Bureau is responsible for administration and enforcement of:

1. The Mississippi Plant Act - Sections 69-25-1 through 69-25-47.
2. Regulation of Professional Services - Sections 69-19-1 through 69-19-11.
3. Mississippi Pesticide Law - Sections 69-23-1 through Sections 69-23-27.
4. Mississippi Pesticide Application Act - Sections 69-23-101 through 69-23-133.
5. Crop Spraying and Licensing of Aerial Applicators - Sections 69-21-1 through 69-21-27.
6. Mississippi Boll Weevil Management Act - Sections 69-37-1 through 69-37-33.
7. Mississippi Bee Disease Act - Sections 69-25-101 through 65-25-109.
8. Mississippi Commercial Feed Law - Sections 75-45-151 through 75-45-195.
9. Mississippi Pure Seed Law - Sections 69-3-1 through 69-3-27.
10. Mississippi Fertilizer Law - Sections 75-47-1 through 75-47-39.
11. Mississippi Soil and Plant Amendment Law - Sections 69-24-1 through 69-24-27
12. Mississippi Agricultural Liming Materials Act - Sections 69-39-1 through 69-39-19.

### **Headquarters Staff:**

John Campbell, M.B.A., Director  
Laura Vollar, B.S., Deputy Director  
Michael Ledlow, B.S., State Entomologist  
Fabian Watts, M.S., Director, Seed Division  
Kenneth Calcote, B.S. Director, Plant Division  
Buddy Brannon, B.S., Branch Director, Feed, Fertilizer, Lime, Soil, and Plant Amendments  
Denise Clanton, B.S., Branch Director, Plant Pest Division  
Jasper Cobb, B.S., Branch Director, Pesticide Division  
Russell Kohler, B.S., Branch Director, Regulation of Professional Services  
Austin Roebuck, B.S., Branch Director, Plant Division

## **Mississippi State Seed Testing Laboratory**

<http://www.mdac.ms.gov>

The State Seed Testing Laboratory is a facility operated by the State Department of Agriculture, Bureau of Plant Industry. Its primary function is to test official seed samples submitted by inspectors of the State Department of Agriculture in connection with the enforcement of the Mississippi Pure Seed Law. The laboratory also serves as the official testing laboratory for the Mississippi Crop Improvement Association.

In addition, the laboratory operates as a service department for farmers and seed merchants. Seeds submitted for analysis are tested for purity, germination and noxious weeds. Seed merchants are charged a nominal fee. Resident farmers are entitled to have one sample of each kind tested free in any calendar year, but for each additional sample a small fee is charged.

The State Seed Testing Laboratory is in the Mississippi Department of Agriculture and Commerce Building on the west side of Stone Boulevard along with the Bureau of Plant Industry.

Fabian Watts, M.S., Director, Seed Division

## Mississippi State Climatology Laboratory

Office: 314 Hilbun Hall

The MSU Climatology Laboratory is the focal point of the Broadcast and Professional Meteorology Programs within the Department of Geosciences. The Climatology Lab is equipped with state-of-the-art meteorological hardware and software systems in support of the teaching, research, and service missions of the department. In support of our broadcast component, the laboratory houses Weather Central and Accuweather graphics production machines, a GR3-level radar system, as well as a full digital studio with linear and non-linear editing capabilities. Daily weather forecasts developed in the Climatology Lab are disseminated through WMSV (FM 91.1), Bulldog Weather (Local TV-18), WOBV-TV (Starkville), and through live "webcasts" (<http://www.geosciences.msstate.edu/>).

The Climatology Lab also serves as a base of operations for the North Mississippi Severe Storms Intercept Team. Members of this group are highly trained operational meteorology students who pursue severe local storms in order to provide the National Weather Service and local community with the most up-to-date severe weather information.

Recent research supported by the Climatology Lab includes topics in Climatic Impacts on Mississippi Agriculture, Suicide and Climate, Population Biases Associated with Tornado Events, The Role of the Earth's Surface on Climate, and a Thermodynamic Climatology of SE Tornado Events. The Climatology Lab also supports the Office of the State Climatologist and is opened on a limited basis to tour groups.

## USDA, ARS, Crop Science Research Laboratory

[http://www.ars.usda.gov/main/site\\_main.htm?modecode=64-06-00-00](http://www.ars.usda.gov/main/site_main.htm?modecode=64-06-00-00)

In the Crop Science Research Laboratory of the U. S. Department of Agriculture basic and applied research is conducted by scientists representing many scientific disciplines. The major objectives of the research programs are to provide increased crop production with greater efficiency by developing cropping systems, pest resistant strains with improved agronomic traits, and decision-making models to reduce costs and conserve natural resources.

Major research lines include corn host plant resistance, genetics and precision agriculture, waste management and forage research.

Johnie N. Jenkins, B.S., M.S., Ph.D., Director

## USDA, Forest Service, Southern Research Station

Two research units of the Southern Research Station, U.S. Department of Agriculture, Forest Service are located in the Forestry Sciences Laboratory, 201 Lincoln Green, in the southwest portion of the campus, and one in Thompson Hall. Basic and applied research on the ecology and physiology of seeds of forest tree species as well as the study of hydrologic and forest soil processes are conducted by staff of the Center for Bottomland Hardwoods Research. The Forest Inventory and Analysis Unit personnel conduct the continuous forest resources inventory for the mid-south states. The Wood Products Insect Research Team personnel conduct basic and applied research on termites.

For more information about these Units, the Southern Research Station, or the Forest Service, please visit our web site: <http://www.srs.fs.usda.gov/>

Center for Bottomland Hardwoods Research

Tracy Hawkins, Ph.D. – Research Ecologist

Forest Inventory and Analysis

David V. Few, B.S. – Supervisory Forester

Wood Products Insect Research

Terence L. Wagner, Ph.D. – Supervisory Research Entomologist

## USDA, ARS, Poultry Research Unit

The South Central Poultry Research Laboratory of the U.S. Department of Agriculture was dedicated May 29, 1965. Located on the west side of the campus on Spring Street, it is a center for the study of disease, environmental, and waste management factors that affect the poultry industry. Research facilities include the office-laboratory building, environmental chambers, disease isolation units and seven poultry research houses. The research is

being conducted by specialists in the fields of Engineering, Molecular Biology, Poultry Science, and Veterinary Science of Agricultural Research Service, U.S.D.A., in cooperation with Mississippi State University and other interested universities.

Scott L. Branton, D.V.M., Ph.D., Veterinary Medical Officer; Research Leader

## **USDA/APHIS/WS National Wildlife Research Center**

103 Scales Building

[http://www.aphis.usda.gov/wildlife\\_damage/nwrc](http://www.aphis.usda.gov/wildlife_damage/nwrc) ([http://www.aphis.usda.gov/wildlife\\_damage/nwrc/](http://www.aphis.usda.gov/wildlife_damage/nwrc/))

The National Wildlife Research Center (NWRC) is the research arm of the Wildlife Services program of the U.S. Department of Agriculture/Animal and Plant Health Inspection Service. NWRC is the U.S. federal organization responsible for conducting research to resolve conflicts between humans and wildlife. The NWRC Mississippi field station was established by Congressional mandate in 1988 to develop methods for reducing bird depredations at aquaculture farms in the southern United States. Personnel at the NWRC Mississippi field station study the biology, impact, and management of a variety of captive and free-ranging avian species, including cormorants, pelicans, and wading birds.

Fred L. Cunningham, DVM., Project Leader/Supervisory Wildlife Research Biologist; [Fred.L.Cunningham@aphis.usda.gov](mailto:Fred.L.Cunningham@aphis.usda.gov)

## **USDA/APHIS/ Wildlife Services**

200 Thompson Hall

The U.S. Department of Agriculture, Animal and Plant Health Inspection Service, Wildlife Services (WS) program is legislatively mandated to provide assistance in the prevention and control of wildlife damage. WS programs are directed toward the protection of agriculture, property, industrial resources, and public health and safety, and natural resources. Services include technical assistance or direct operational control. Technical assistance consists of advice, recommendations, training, information transfer, or materials provided to others for the resolution of problems. In contrast, direct operational control activities are conducted by WS personnel through cooperative wildlife damage management programs. These two types of assistance are available upon request to anyone.

Kris Godwin, M.S., State Director, [kris.godwin@aphis.usda.gov](mailto:kris.godwin@aphis.usda.gov)

## **University Press of Mississippi**

The University Press of Mississippi was founded in 1970 to encourage the dissemination of the results of research and study through the publication of scholarly works. Functioning as the scholarly publishing arm of the state-supported universities in Mississippi, the University Press is governed by a Board of Directors made up of two representatives from each of the eight state universities, one representative from the Board of Trustees of Institutions of Higher Learning, and the director of the Press, ex officio.

The University Press normally publishes approximately 65 books each year. Primary areas of interest are history, literature, culture, African American studies, and regional topics but manuscripts in all areas of study are welcomed.

Administrative offices of the University Press are located in the Education and Research Center of Mississippi, 3825 Ridgewood Road, Jackson, Mississippi.